South Gate Tow Yard Project

CEQA Initial Study / Mitigated Negative Declaration

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Community Development
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South Gate, CA 90280
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HAZ-2 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025.

HAZ-3 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026.

I. INTRODUCTION

A. INTRODUCTION AND REGULATORY GUIDANCE

The California Environmental Quality Act was enacted in 1970 with several basic purposes: (1) to inform governmental decision makers and the public about the potential significant environmental effects of proposed projects; (2) to identify ways that environmental damage can be avoided or significantly reduced; (3) to prevent significant, avoidable damage to the environment by requiring changes in projects through the use of feasible alternatives or mitigation measures; and (4) to disclose to the public the reasons behind a project's approval even if significant environmental effects are anticipated.

An Initial Study is a preliminary analysis conducted by the Lead Agency, in consultation with other agencies (responsible or trustee agencies, as applicable), to determine whether there is substantial evidence that a project may have a significant effect on the environment. If the Initial Study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, the Lead Agency shall prepare a Negative Declaration. If the Initial Study identifies potentially significant effects but revisions have been made by or agreed to by the applicant that would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur, a Mitigated Negative Declaration is appropriate. If the Initial Study concludes that neither a Negative Declaration or Mitigated Negative Declaration is appropriate, an EIR is normally required.

This IS prepared by the City of South Gate determines that the Project will not have a significant environmental effect, and the preparation of an EIR is not required. This IS/MND has been prepared in accordance with Section 15070 of the State California Environmental Quality Act (CEQA) Guidelines.

B. LEAD AGENCY

The lead agency is the public agency with primary responsibility over a proposed project. In accordance with CEQA Guidelines Section 15051(b)(1), "the lead agency will normally be the agency with general governmental powers." The Project would be approved by the City of South Gate. Therefore, based on the criteria described above, the City of South Gate Community Development, Planning Division is the lead agency for the Project.

C. PURPOSE AND DOCUMENT OGRANIZATION

The purpose of this IS/MND is to evaluate the potential environmental effects of the Project. The document is divided into the following sections:

I. INTRODUCTION

This section provides an introduction and describes the purpose and organization of this document.

II. INITIAL STUDY CHECKLIST

This section includes the Project background and a detailed description of the Project. This section describes the environmental setting for each of the environmental subject areas; evaluates a

range of impacts classified as “no impact,” “less than significant impact,” “less than significant impact with mitigation incorporated,” or “potentially significant impact” in response to the environmental checklist and provides an environmental determination for the Project.

III. REFERENCES

This section identifies resources used in the preparation of the IS/MND.

II. INITIAL STUDY CHECKLIST

A. PROJECT DESCRIPTION

1. Project Title:

South Gate Tow Yard Project

2. Lead Agency Name and Address:

City of South Gate
Community Development Department, Planning Division
8650 California Avenue
South Gate, CA 90280

3. Lead Agency Contact Person and Phone Number:

John F. Signo, AICP, Planning Manager
(323) 563-9569

4. Project Location:

9313 Rayo Avenue
South Gate, CA 90280

5. Applicant's Name and Address:

Lisa Nielsen
Commercial Development Resources Inc.
695 Town Center Drive, Suite 110
Costa Mesa, CA 92626
on behalf of Mr. C's Towing of South Gate, Inc / FUBAR Properties LLC.

6. General Plan Land Use Designation:

Industrial (Rayo Industrial District- Sub-area 2)

7. Zoning Designation:

Industrial Flex (IF) and Heavy Manufacturing (M3)

8. Surrounding Land Uses and Setting:

The Project Site is situated within an established urban area in the City of South Gate. The Project Site is approximately 99,856 square feet (2.29 acres) and is comprised of one irregular-shaped parcel having primary frontage along Rayo Avenue. Surrounding properties include commercial and industrial uses to the north, east and west, and a Los Angeles Unified School District (LAUSD) facility to the south. Specifically, a surface level parking lot is developed directly to the north and west of the Project Site and is intended for an Amazon parcel delivery vehicle operation. A metal recycling facility (ELG Metals West Coast Inc.) is located to the east across Rayo Avenue. LAUSD operates a maintenance yard, administrative office, and adult school to the south.

Refer to **Figure 1** and **Figure 2** for visuals of the surrounding areas.

9. Description of Project:

Project Setting

The Project Site is located at 9313 Rayo Avenue, and is bounded by industrial property to the north, Rayo Avenue to the east, an LAUSD maintenance yard, administrative office, and adult school to the south, and industrial property and ultimately Atlantic Avenue to the west. The Project Site's location within the City of South Gate and greater Los Angeles region is depicted in **Figure 3, Regional and Project Vicinity Location Map**.

Regional vehicular access to the Project Site is available via the I-710 Freeway, located approximately 1.0 miles east of the Project Site. Local access to the Project Site is provided via Rayo Street, which intersects with Firestone Boulevard to the northeast and Southern Avenue to the south.

Existing Conditions

The Project Site, which consists of Assessor Parcel Numbers (APNs) 6222-005-028 and 6222-005-030, is irregular in shape, and totals approximately 99,856 square feet (2.29 acres). The Project Site is currently partially paved, fully fenced, and developed with one building containing approximately 12,550 square feet, located on the southern portion of the site. The Project Site is accessed from two driveway aprons on Rayo Avenue. **Figure 4, Aerial View of the Project Site**, shows the Project Site boundaries and the existing conditions of the Project Site.

The Project Site is located within the Rayo Industrial (Sub-area 2) District per the Community Design Element of the General Plan and currently has two zones: IF (Industrial Flex) and M3 (Heavy Manufacturing).

Project Components

Historically, the northern portion of the Project Site was used for drum recycling and reconditioning operations beginning in the early 1940s, and Sanborn Fire Insurance maps from 1950 and 1970 show the southern portion of the Project Site was used as a lumber and coke storage yard and as a plumbing material storage yard. Cooper Drum Company acquired the Project Site in 1971 and expanded drum reconditioning operations across the Project Site by 1976, operating the Project Site until 1992, when the drum reconditioning operations were sold to Waymire Drum Company, who continued to operate the drum recycling facility until June 1996, when the operations were sold to Consolidated Drum Company. Consolidated Drum performed drum recycling operations through 2003, at which time the drum recycling ended. The Project Site was used for pallet storage after 2003 and was vacant from 2009 until 2024 when it was acquired by FUBAR Properties, LLC and occupied by Mr. C's Towing. Due to contamination as a result of the previous drum recycling and reconditioning operations, the United States Environmental Protection Agency (U.S. EPA) added the Project Site to the Superfund National Priorities List of hazardous waste sites requiring remedial action.[1]

[1] Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

Due to the site's status, EPA imposed certain limitations in conducting site improvements and type of land uses/activities permitted within the site. The EPA restrictions in combination with the City's Zoning Code have limited the uses/activities and improvements that may be permitted within the Project Site. In 2013, the property lot lines were adjusted to create the current lot configuration consisting of two Assessor parcel numbers. Although it consists of two parcel numbers, the Project Site is identified as one legal parcel. At the time, the entire property's zoning designation was M3. Subsequently, the Zoning Code was comprehensively updated in 2015, which resulted in amendments to the Zoning Map. As part of the update, an IF zoning district was introduced; however, the zoning map changes were not aligned with the property lines of the site. As a result, the property was divided into two zones: the landlocked westerly portion designated IF, and the easterly portion zoned M3.

The Project Site is currently operated as a vehicle towing/impounding lot only within the front (easterly) portion of the Project Site currently designated M3.

The Project consists of an Ordinance, amending the citywide Zoning Map of Title 11 (Zoning) of the SGMC, to change the zoning designation of the rear portion of the property from IF (Industrial Flex) to M3 (Heavy Manufacturing), to match the current M3 zoning designation of the front portion of the property. Pursuant to Table 11.21-4 (Commercial Industrial Zones Allowed Land Uses) of SGMC Section 11.21.030 (Land Use Permission Tables), "vehicle towing/impounding" uses are permitted by-right in the M3 zone. The applicant is seeking to expand the towing business operations that occur on the front (easterly) portion of the Project Site and occupy the entire site; however, the rear portion must be re-zoned to M3 to allow the expansion.

The Project includes installation of a new vehicle storage site area (paving and striping), new site lighting, and construction of an approximately 560-square-foot office building. **Figure 5** shows the Project's site plan. The Project includes operation of the tow yard across the entire property.

Construction

Typical construction equipment would be used during project construction, including bulldozers, dump trucks, and excavator trucks. Construction staging would be located on the Project Site and an Erosion Control Plan, including sediment control best management practices (BMPs) would be implemented during construction.

The Project would include approximately 52 cubic yards (CY) of soil cut, all of which (52 CY) is expected to be exported.

The Project is expected to be constructed over approximately eight (8) months, starting in the first quarter of 2027. The Project is expected to be operational in the third quarter of 2027.

Requested Entitlements

To allow for implementation of the Project, the Applicant is requesting the following entitlement:

1. Approval of an Ordinance amending the citywide Zoning Map of Title 11 (Zoning) of the SGMC, to change the zoning designation of the rear portion of the property at 9313 Rayo Avenue from IF (Industrial Flex) to M3 (Heavy Manufacturing), to match the current M3 zoning designation of the front portion of the property and the existing General Plan land use designation of Industrial.

Additionally, pursuant to various sections of the City's Code, the Applicant will request approvals and permits from various City Departments for Project construction actions including, but not limited to demolition, excavation, shoring, grading, foundation, and building improvements.

10. Other Public Agencies Whose Approval Is Required:

No other approvals by outside public agencies are required.

11. Have California Native American Tribes Traditionally and Culturally Affiliated with the project Area Requested Consultation Pursuant to Public Resources Code Section 21080.3.1:

As part of the process of identifying cultural resources issues in or near the Project Site, the City sent letters inviting tribes to consult with the City on April 23, 2026. The City requested a response within 30 days of receipt as specified by Assembly Bill 52 (AB 52). One tribe responded, the Gabrieleño Band of Mission Indians - Kizh Nation. The City initiated consultation with the tribe and consultation was closed after no further correspondence from the tribe was received.



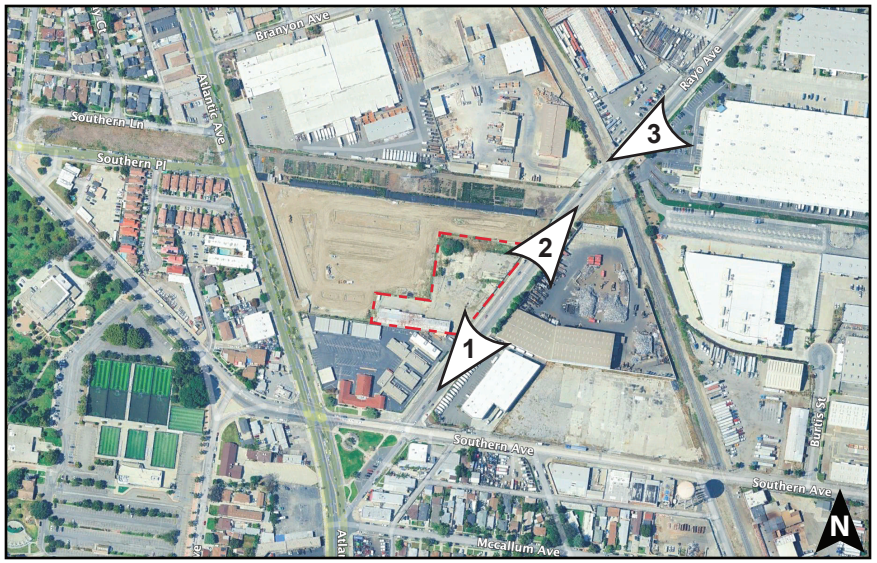
View 1: View looking southwest down Rayo Avenue from adjacent to the Project Site



View 2: View looking northeast up Rayo Avenue from adjacent to the Project Site



View 3: View looking southwest at the development site and the industrial land use to the north of the Project Site from Rayo Avenue



KEY DIAGRAM

Site Plan Area View Angle

Source: Google Earth, 2026

Figure 1

Views of Surrounding Uses (View 1, View 2, View 3)



View 4: View looking northeast at the development site to the west of the Project Site from Atlantic Avenue



View 5: View looking northwest at the LAUSD facility to the south of the Project Site from the intersection of Southern Avenue and Rayo Avenue



View 6: View looking northeast at the ELG Metals West Coast Inc. metal recycling facility to the east of the Project Site from Rayo Avenue



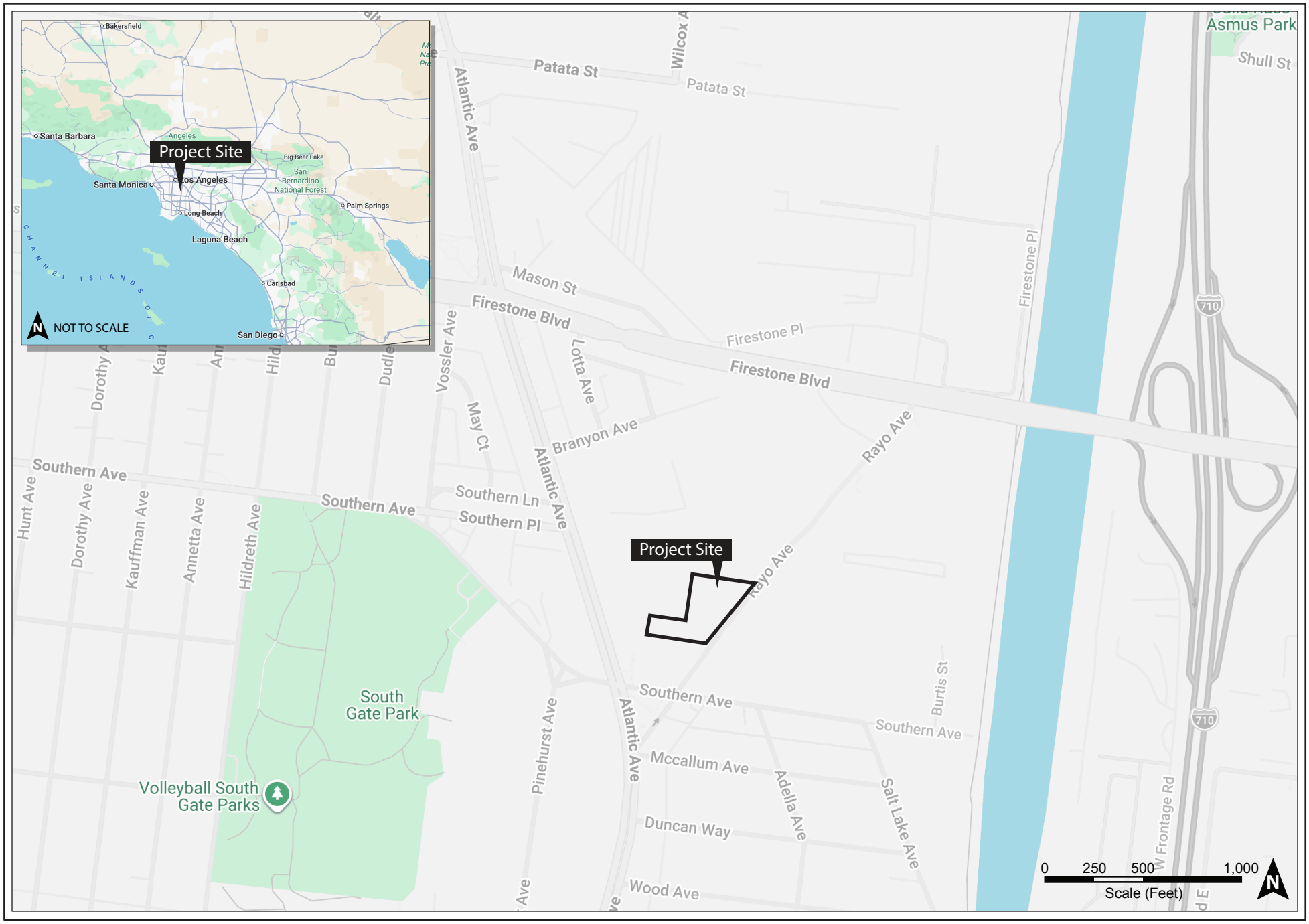
KEY DIAGRAM

Site Plan Area View Angle

Source: Google Earth, 2026

Figure 2

Views of Surrounding Uses (Vie 4, View 5, View 6)



Source: Google Maps, 2026

EcoTierra consulting

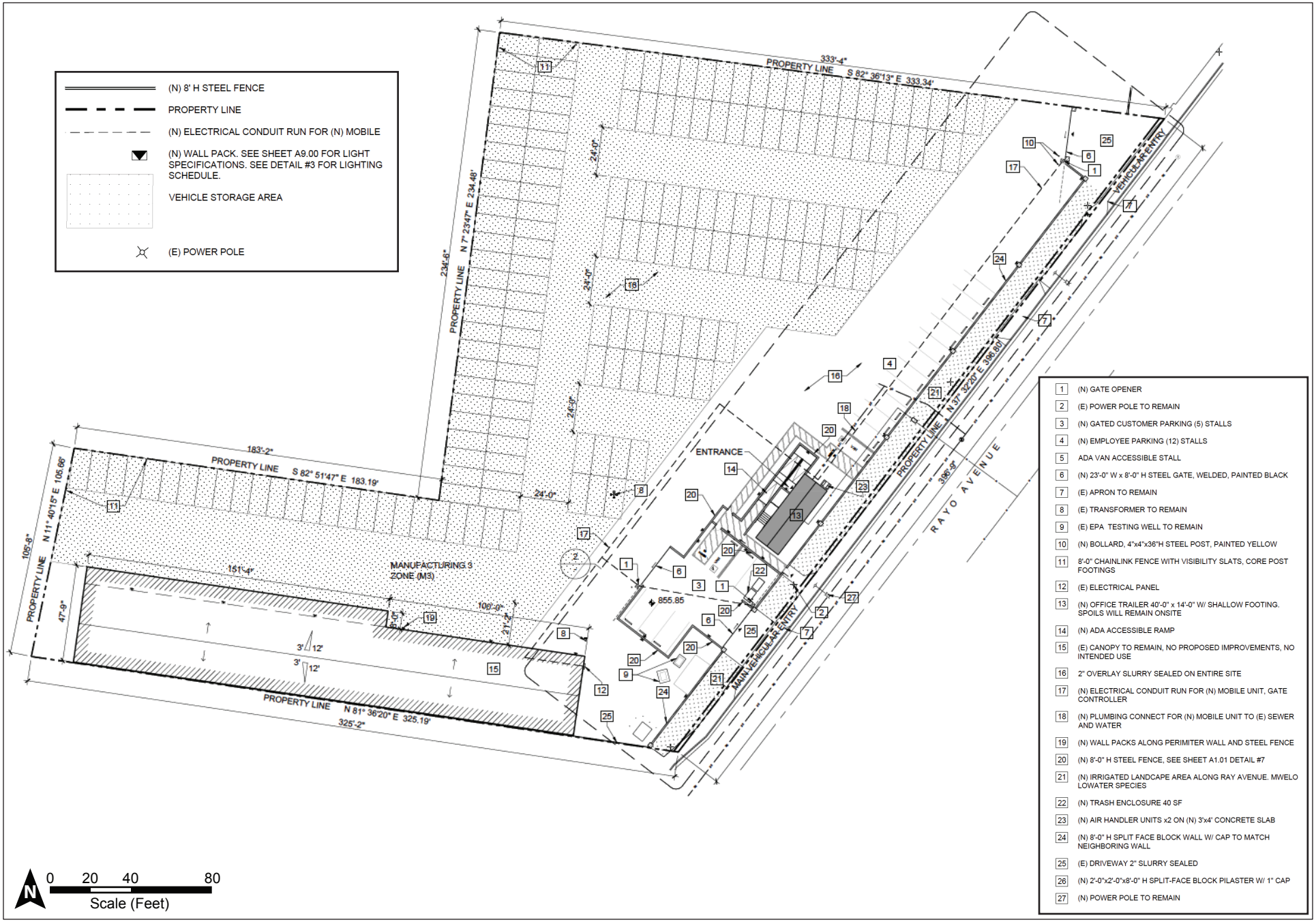
Figure 3
Regional and Project Vicinity Location Map



Source: Google Earth, 2026

EcoTierra consulting

Figure 4
Aerial View of the Project Site



Source: Corsini Stark Architects, 2026

EcoTierra consulting

Figure 5
Project Site Plan

B. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors that would be potentially affected by this project and are mitigated to a less than significant impact are indicated below.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology/Soils	☐ Greenhouse Gas Emissions	☒ Hazards & Hazardous Materials
☒ Hydrology/Water Quality	☐ Land Use/Planning	☐ Mineral Resources
☐ Noise	☐ Population/Housing	☐ Public Services
☐ Recreation	☐ Transportation/Traffic	☐ Tribal Cultural Resources
☐ Utilities/Service Systems	☐ Wildfire	☒ Mandatory Findings of Significance

C. DETERMINATION

On the basis of this initial evaluation:

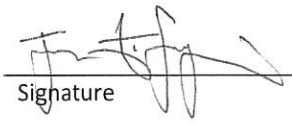
☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because of the incorporated mitigation measures and revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

7-23-26

Date

John F. Signo, AICP, Planning Manager

D. EVALUATION OF ENVIRONMENTAL IMPACTS

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources cited. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards.

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect, and construction as well as operational impacts.

3) A "Less Than Significant Impact" applies when the proposed project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.

4) "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect is significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

5) "Potentially Significant Unless Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The initial study must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
1. AESTHETICS. Except as provided in Public Resources Code Section 21099 would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcrops, and historic buildings within a State scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at State and local levels that guide development and influence the physical form and aesthetic character of the City. These include:

- South Gate General Plan 2035, Green City Element
- South Gate Municipal Code

Environmental Setting

Scenic Vistas and Scenic Resources

According to the City's General Plan, the City is entirely urbanized and has a diverse mix of land uses. The City primarily contains open space for outdoor recreation, provided by its City park and multiuse trail system and the nearby rivers, the Los Angeles River and the Rio Hondo Channel. There is also a small amount of open space for public health and safety, such as flood zones or buffers from highways.[2] Scenic resources consist predominantly of distant views of the San Gabriel Mountains, which are located approximately 35 miles to the north of the City. In the vicinity of the Project Site, public views of this resource are intermittently available from Atlantic Avenue but are limited due to the topography of the site and intervening urban development.

2 South Gate General Plan 2035, Green City Element, December 2009.

Scenic Highways

The California Scenic Highway System indicates that no existing or proposed State scenic highways are located in the vicinity of the Project Site.[3]

Light and Glare

The Project is located in a well-lit urbanized and industrial area of the City where there are moderate levels of ambient nighttime lighting including street lighting, vehicle headlights, architectural and security lighting, and indoor building illumination (light emanating from structures that passes through windows). Glare is generally a result of reflections off of pavement, vehicle windows and chrome, and building materials that include reflective glass and other shiny materials. Potential impacts from light and glare are directly related to the level of urbanization in the vicinity of the Project Site and the design of the proposed project.

Checklist Discussion

a) Would the project have a substantial adverse effect on a scenic vista?

No Impact. A significant impact may occur if a proposed project introduces incompatible visual elements within a field of view containing a scenic vista or substantially blocks a scenic vista.

The Project Site is located in an urbanized area of the City. The existing viewshed at the Project Site is defined by urban development comprised of a mix of industrial, commercial, office, and low- to medium-density residential uses. No scenic views currently exist on the Project Site. Views from the streets around the area are limited by the relatively undifferentiated topography of the area and the low-rise developments lining the surrounding the major street corridors. There are no views of the San Gabriel Mountains available from the Project Site or the adjacent public rights-of-way. Furthermore, according to the City's Green City Element, aesthetic resources in the City predominantly consist of the Los Angeles River and the Rio Hondo Channel, which both have multi-use trails along them.[4] The Los Angeles River is located approximately four miles east of the Project Site and the Rio Hondo Channel is located approximately 6.4 miles east of the Project Site. Public views of the Los Angeles River and/or the Rio Hondo Channel are not visible from the Project Site vicinity due to the distance between them and the Project Site, as well as intervening structures.

The Project Site is currently partially paved, fully fenced, and developed with one building containing approximately 12,550 square feet, located on the southern portion of the site. The Project Site is relatively flat and is comprised of an irregular-shaped parcel of land bounded by industrial property to the north, Rayo Avenue to the east, an LAUSD maintenance yard, administrative office, and adult school to the south, and industrial property and ultimately Atlantic Avenue to the west. The Project includes installation of a new vehicle storage site area (paving and striping), new site lighting, construction of an approximately 560-square-foot office building, and operation of the Project Site as a tow yard. As there are no scenic views currently available from the Project Site or the adjacent public right-of-way, the Project would have

3 California Department of Transportation, California Scenic Highway Map, https://arcg.is/0Sf11i, accessed June 2026.
4 South Gate General Plan 2035, Green City Element, December 2009.

no impact with respect to views of a scenic vista. **Therefore, no impacts would occur, and no mitigation measures would be required**.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?

No Impact. A significant impact may occur only where scenic resources would be damaged or removed by the project.

The Project Site does not contain trees with scenic significance or rock outcroppings. The California Scenic Highway System indicates that no existing or proposed State scenic highways are located in the vicinity of the Project Site.[5] The nearest State-designated scenic highway to the Project Site is a portion of California State Route 91 (SR-91) between State Route 55 (SR-55) and Yorba Linda Boulevard, which is located over 21 miles southeast of the Site.[6] Therefore, the Project would not result in substantial damage to scenic resources in a State scenic highway. **No impacts would occur and no mitigation measures would be required**.

c) Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact. The Project is located in a developed urbanized area of the City; therefore, the applicable threshold with respect to the Project is consistency with applicable zoning and other regulations governing scenic quality. A significant impact may occur if a project would conflict with applicable zoning and other regulations governing scenic quality.

The Project would involve the installation of a new vehicle storage site area (paving and striping), new site lighting, construction of an approximately 560-square-foot office building, and operation of the Project Site as a tow yard.

Height

The Project Site is located in an area characterized by a mix of low-rise industrial, commercial, office, and residential uses, all of which are constructed with a variety of styles and materials. The Project Site is located within the Rayo Industrial (Sub-area 2) District of the Community Design Element of the General Plan and currently has two zones: IF (Industrial Flex) and M3 (Heavy Manufacturing). The IF zone permits a maximum height of two stories and 35 feet along the street-facing property line and four stories and 45 feet along the interior property line, plus a maximum of 65 feet for architectural features. The M3 zone permits a maximum height of four stories and 50 feet, whichever is less, plus a maximum of 65 feet for architectural features. The Project includes an Ordinance to amending the citywide Zoning Map of Title 11 (Zoning) of the SGMC, so that the entire property is zoned M3. The Project proposes construction of a one-story, approximately 560-square-foot office building, which would be consistent with the height

5 California Department of Transportation, California Scenic Highway Map, https://arcg.is/0Sf11i, accessed June 2026.
6 California Department of Transportation, California Scenic Highway Map, https://arcg.is/0Sf11i, accessed June 2026.

limitations of the M3 zone. Therefore, the Project would not conflict with applicable zoning and other regulations governing scenic quality specifically related to height.

Massing

The Project would add a one-story, approximately 560-square-foot office building to the Project Site, which would not be out of character with the urbanized area, or with other development surrounding the Project Site. The M3 zoning designation allows a maximum FAR of 2:1, and the Project would have an FAR of 0.13:1 after the addition of the proposed building to the site, consistent with the development standards of the M3 zone. Therefore, the Project would not conflict with applicable zoning and other regulations governing scenic quality specifically related to massing.

Other Regulations Governing Scenic Quality

The Project incorporates the design guidelines of the General Plan Community Design Element related to Manufacturing/Distribution land uses including the following:

> *Building Placement and Frontage: Buildings and exterior manufacturing facilities may be set back from public streets and separated by landscaping. Fences and/or walls may be used to provide security and protection. Where used, landscaping should be located between the sidewalk and the fence or wall. Buildings and activities should be placed on the site to minimize the impact on adjacent residential uses, where they exist.*
>
> *Parking, Vehicle Access and Services: Parking should be in surface parking lots with vehicular access from a primary street. Parking areas are encouraged to be provided to the rear or side of buildings and to include trees that reach mature heights of at least 20 feet, whenever feasible. Outdoor storage areas, including storage of trucks and equipment, will be screened from view from adjacent streets and parcels by appropriate fencing and/or landscaping.*

The Project includes perimeter walls to shield the Project's existing and future tow yard use from view from the public realm. The proposed new office building would be located at the Rayo Avenue frontage, adjacent to the existing driveway. The driveway would provide access to a surface parking lot for visitors, and the parking area would provide access to the new office building, without requiring visitors to interact with the tow yard area.

The Project incorporates the following applicable policies of the Rayo Industrial District (Sub-area 2):

> *P.1 The existing logistics, warehouse and distribution uses will be allowed to continue in their current operations and make minor property improvements, but major expansion should not be allowed.*
>
> *P.2 New job-producing uses should help to diversify the City's tax and employment base.*
>
> *P.3 The Boulevard Medium-High and Single Use Retail Place Types are allowed and encouraged along Atlantic Avenue. These uses are not desired in other areas of the District.*

The Project would allow the existing tow yard use to utilize the entire site, consistent with the Rayo Industrial District. The tow yard operations would continue to provide jobs and contribute to the City's

tax and employment base. The Project would not site retail uses at the Project Site, which is designated for industrial and manufacturing use. Therefore, the Project would not conflict with applicable zoning or regulations governing scenic quality.

Impacts would be less than significant, and no mitigation measures would be required.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. A significant impact may occur if a project introduces new sources of light or glare on the Project Site which would be incompatible with the areas surrounding the Project Site or which pose a safety hazard, such as to motorists utilizing adjacent streets.

Construction

The Project includes installation of a new vehicle storage site area (paving and striping), new site lighting, and construction of an approximately 560-square-foot office building. While the majority of Project construction is expected to occur during daylight hours, there is a potential that construction could occur in the evening hours and require the use of artificial lighting, particularly if construction occurs during the winter season when daylight is no longer sufficient earlier in the day. Outdoor lighting sources, such as floodlights, spot lights, and/or headlights associated with construction equipment typically accompany nighttime construction activities. To the extent evening construction includes artificial light sources, such use would be temporary and would cease upon completion of Project construction. Furthermore, construction-related illumination would be used for safety and security purposes only, in compliance with SGMC light intensity requirements. Additionally, as part of the Project, construction lighting would be shielded such that no light source can be seen from adjacent residential properties. Construction lighting, while potentially bright, would be focused on the particular area undergoing work.

Daytime glare could potentially occur during construction activities if reflective construction materials were positioned in highly visible locations where the reflection of sunlight could occur. However, any glare would be highly transitory and short-term, given the movement of construction equipment and materials within the construction area, and the temporary nature of construction activities. In addition, large, flat surfaces that are generally required to generate substantial glare are typically not an element of construction activities. Furthermore, temporary construction fencing would be placed along the periphery of the Project Site to screen construction activity from view at the street level from off-site locations. Therefore, there would be a negligible potential for daytime or nighttime glare associated with construction activities to occur.

Based on the above, light and glare associated with temporary Project construction would not substantially alter the character of off-site areas surrounding the Project Site or adversely impact day or nighttime views in the area.

Operation

The Project consists of an Ordinance, amending the citywide Zoning Map of Title 11 (Zoning) of the SGMC, to change the zoning designation of the rear portion of the property at 9313 Rayo Avenue from IF (Industrial Flex) to M3 (Heavy Manufacturing), to match the current M3 zoning designation of the front portion of the property. Pursuant to Table 11.21-4 (Commercial Industrial Zones Allowed Land Uses) of

SGMC Section 11.21.030 (Land Use Permission Tables), "vehicle towing/impounding" uses are permitted by-right. The applicant is seeking to expand the towing business operations that occur on the front (easterly) portion of the Project Site and occupy the entire site; however, the rear portion must be re-zoned to M3 to allow the proposed operations.

Physical changes to the property proposed by the Project are limited to installation of a new vehicle storage site area (paving and striping), new site lighting, and construction of an approximately 560-square-foot office building. Section 11.30.050 (Development requirements), of the SGMC, states all exterior lighting shall adhere to the following regulations: *1. [All lighting must] be directed onto the premises, resulting in no glare or reflection onto adjacent properties. under canopies or hoods, under eaves of buildings, or at ground level in the landscaping*. Furthermore, Section 11.30.050 (Development requirements) states all exterior lighting shall adhere to the following regulations: *[All lighting must] be directed onto the premises, resulting in no glare or reflection onto adjacent properties or public right-of-way; and [All lighting must] emanate only from fixtures located under canopies or hoods, under eaves of buildings, or at ground level in the landscaping*. All exterior lighting for the Project Site is required to meet all applicable SGMC standards and be shielded or directed toward the areas to be illuminated. In compliance with all applicable SGMC standards, exterior lighting on the Project Site would not illuminate adjacent properties.

Any signage for the Project (such as monument, identification, wayfinding) would either meet code requirements or would be proposed under a subsequent entitlement or permit request. Any new street and/or pedestrian lighting within the public right-of-way would comply with all applicable City regulations, as required, in order to maintain appropriate and safe lighting levels on both sidewalks and roadways while minimizing light and glare on adjacent properties.

Daytime glare can result from sunlight reflecting from a shiny surface that would interfere with the performance of an off-site activity, such as the operation of a motor vehicle. Reflective surfaces can be associated with window glass and polished surfaces, such as car windshields. In general, sun reflection that has the greatest potential to interfere with driving occurs at the street level. Sun reflection from the Project could occur during periods in which the sun is low on the horizon and when the point of reflection within the Project Site is in front of the driver, in the direction of travel. The Project Site is currently fully fenced and gated, thus blocking any potential glare from reflective surfaces within the project site including vehicles from resulting in glare within the public realm including the surrounding streets.

Nighttime glare could result from illuminated signs and vehicle headlights. No signage, other than interior wayfinding and directional signage and associated lighting, has been proposed for the Project at this time. Any signage would either meet code requirements or would be proposed under a subsequent filing. Furthermore, while headlights from vehicles entering and exiting the Site would be visible during the evening and nighttime hours, such lighting sources would be typical for the area and there are no residential or otherwise glare or light sensitive uses adjacent to the Project Site's driveway. Thus, nighttime glare would not result in a substantial adverse impact.

Based on the above, with adherence to regulatory requirements, lighting associated with Project operation would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
2. AGRICULTURE AND FORESTRY RESOURCES. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forestland (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forestland or conversion of forestland to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to nonagricultural use or conversion of forestland to non-forest use?	☐	☐	☐	☒

Regulatory Setting

The Department of Conservation, the Division of Land Resource Protection (DLRP) serves as the State's leader in conserving California's agricultural lands. The Department of Conservation's Farmland Mapping and Monitoring Program (FMMP) produces maps and statistical data used for analyzing impacts on California's agricultural resources.

The DLRP also collects data on Williamson Act contracts, which are formed between a county or city and a landowner for the purpose of restricting specific parcels of land to agricultural or related open space use. However, Los Angeles County does not participate in the Williamson Act contract program.[7]

Environmental Setting

There is no land within the City designated as farmland, forest, or timber production nor are there any existing agricultural, farmland, forest or timber production uses. Pursuant to the Farmland Mapping and Monitoring Program, the City is designated as Urban and Built-Up Land.[8] The Project Site has IF (Industrial

7 State of California Department of Conservation, Division of Land Resource Protection, The Williamson Act Status Report 2020-21, https://www.conservation.ca.gov/dlrp/wa/Documents/stats_reports/2022%20WA%20Status%20Report.pdf, accessed June 2026.

8 State of California Department of Conservation, Division of Land Resource Protection, California Important Farmland 2020, https://maps.conservation.ca.gov/dlrp/ciftimeseries/, accessed June 2026.

Flex) and M3 (Heavy Manufacturing) zoning designations and has a General Plan land use designation of Industrial, which provides guidelines for the industrial uses in the District. Los Angeles County does not participate in the Williamson Act contract program.[9]

Checklist Discussion

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. A significant impact may occur if a project were to result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) to non-agricultural use. The Project Site is currently developed with a tow yard use and, according to the State Farmland Mapping and Monitoring Program's most recent Farmland mapping data, neither the Project Site nor the surrounding area are designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance.[10] **Thus, the Project would not result in the loss of State-designated Farmland and no impact would occur**. **No mitigation measures would be required**

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. A significant impact may occur if a project were to result in the conversion of land zoned for agricultural use or under a Williamson Act contract from agricultural use to another non-agricultural use. The Project Site has IF and M3 zoning designations and a General Plan land use designation of Industrial, which promotes industrial uses. Thus, the Project Site is not zoned for agricultural use, nor are there any agricultural uses currently occurring at the Project Site or within the surrounding area. Additionally, according to the State's most recent Williamson Act land data, Los Angeles County does not participate in the Williamson Act contract program and there are no Williamson Act contracts on the Project Site or within the City of South Gate.[11] **Therefore, no impacts would occur and no mitigation measures would be required**.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

***No Impact*.** A significant impact may occur if a project results in the conversion of farmland to another, non-agricultural use, and/or if a project results in the conversion of forest land to another, non-forest use. There are no forest or timberland resources the immediate Project area. The Project Site has IF (Industrial Flex) and M3 (Heavy Manufacturing) zoning designations and has a General Plan land use designation of Industrial. The Project Site is not zoned for forest land, timberland, or timberland production land uses. Further, The City does not have any land that is designated or zoned for forest use or timber production. **Therefore, no impacts would occur, and no mitigation measures would be required.**

9 State of California Department of Conservation, Division of Land Resource Protection, The Williamson Act Status Report 2020-21, https://www.conservation.ca.gov/dlrp/wa/Documents/stats_reports/2022%20WA%20Status%20Report.pdf, accessed June 2026.

10 State of California Department of Conservation, Division of Land Resource Protection, California Important Farmland 2020, https://maps.conservation.ca.gov/dlrp/ciftimeseries/, accessed June 2026.

11 State of California Department of Conservation, Division of Land Resource Protection, The Williamson Act Status Report 2020-21, https://www.conservation.ca.gov/dlrp/wa/Documents/stats_reports/2022%20WA%20Status%20Report.pdf, accessed June 2026.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. A significant impact may occur if a project results in the conversion of forest land to another, non-forest use. The Project Site is developed with a tow yard use and is located in an urbanized, industrial area of the City. No forest land exists on or in the vicinity of the Project Site, and Project implementation would not result in the loss or conversion of forest land. **Therefore, no impacts would occur, and no mitigation measures would be required**.

e) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

***No Impact*.** A significant impact may occur if a project results in the conversion of farmland to another, non-agricultural use, and/or if a project results in the conversion of forest land to another, non-forest use. The Project Site is developed with a tow yard use, and it is located in an urbanized, industrial area of the City. No agricultural uses, designated Farmland, or forest land uses occur at the Project Site or within the surrounding area. As such, implementation of the Project would not result in the conversion of existing Farmland, agricultural uses, or forest land on- or off-site. **Therefore, no impacts would occur, and no mitigation measures would be required.**

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
3. AIR QUALITY. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at federal, State, and local levels with regard to air quality and include:

a) Federal Clean Air Act
b) California Clean Air Act
c) California Air Toxics Program
d) Air Quality and Land Use Handbook: A Community Health Perspective
e) South Coast Air Quality Management District Rules and Regulations
f) South Coast Air Quality Management District 2022 Air Quality Management Plan
g) City of South Gate General Plan

Environmental Setting

Both the U.S. Environmental Protection Agency (USEPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. Ambient air quality standards are set to protect public health and are levels of pollutants which represent safe levels that avoid specific adverse health effects. The ambient air quality standards cover what are called "criteria" pollutants because the health and other effects of each pollutant are described in criteria documents. The major criteria pollutants are ozone, carbon monoxide, nitrogen dioxide, and particulate matter. Both federal and State ambient air quality standards apply, as established by the U.S. Environmental Protection Agency (USEPA) and State air quality agencies (CALEPA for California). California air quality standards are generally more stringent that federal standards.

The City of South Gate, including the Project Site, is within the 6,745-square-mile South Coast Air Basin (Basin) that includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. Air quality within the Basin is influenced by a wide range of emissions sources, such as dense population centers, heavy vehicular traffic, and industry. These sources in addition to the topography and climate of Southern California combine to make the Basin an area of high air pollution

potential. Particularly, ambient pollution concentrations recorded in the Los Angeles County portion of the Basin are among the highest in the four counties comprising the Basin.

Air Quality Management Plan

Every three (3) years the SCAQMD prepares a new Air Quality Management Plan (AQMP), updating the previous plan and providing a 20-year horizon. The most recent AQMP, the 2022 AQMP, identifies the control measures that will be implemented over a 20-year horizon to reduce major sources of pollutants. Control measures established in previous AQMPs have substantially decreased exposure to unhealthful levels of pollutants, even while substantial population growth has occurred within the Basin.

The 2022 AQMP control strategies were developed, in part, based on regional growth projections prepared by the Southern California Association of Governments (SCAG). Specifically, the 2022 AQMP forecasts the 2037 emissions inventories ''with growth'' based on SCAG's 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS). As the AQMP control strategy is based on projections from local general plans, projects which are consistent with local general plans are considered consistent with the growth assumptions of the air-quality-related regional plans and their emissions are assumed to be accounted for in the AQMP emissions inventory. Projects which include amendments to general or specific plans, or are considered significant projects, undergo further scrutiny for AQMP consistency. The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the project includes the SCAQMD Air Quality Management Plan (AQMP). The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required. A proposed project would be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies.

Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. Generally, sensitive land uses, or sensitive receptors, are those where sensitive individuals are most likely to spend time. Individuals most susceptible to poor air quality include children, the elderly, athletes, and those with cardiovascular and chronic respiratory diseases. As a result, land uses sensitive to air quality may include schools (i.e., elementary schools or high schools), childcare centers, parks and playgrounds, long-term health care facilities, rehabilitation facilities, convalescent facilities, retirement facilities, residences, and athletic facilities. For the purposes of CEQA analysis, the SCAQMD considers a sensitive receptor to be a receptor such as a residence, hospital, or convalescent facility where it is possible that an individual could remain for 24 hours. The SCAQMD does not consider commercial and industrial facilities to be sensitive receptors because employees do not typically remain onsite at such facilities for 24 hours. However, the SCAQMD suggests that local significance thresholds (LSTs) based on shorter averaging periods, such as the NO_2 and CO LSTs, may also be applied to receptors such as commercial and industrial facilities since it is reasonable to assume that workers at these sites may be present for up to eight hours.[12]

12 SCAQMD, Final Localized Significance Threshold Methodology, June 2003. Revised July 2008.

The Project is located in a neighborhood with a diverse mix of land uses including commercial and industrial uses to the north, east and west, and a Los Angeles Unified School District (LAUSD) facility to the south. Specifically, a surface level parking lot is currently being developed directly to the north and west of the Project Site and is intended for an Amazon parcel delivery vehicle operation. A metal recycling facility (ELG Metals West Coast Inc.) is located to the east across Rayo Avenue. LAUSD operates a maintenance yard, administrative office, and adult school to the south. The closest sensitive receptor is the multi-family apartment building located west of the Project Site across Atlantic Avenue at 9301 Atlantic Avenue, approximately 437 feet from the Project Site.

Other sensitive receptors are located farther from the Project site and would experience reduced impacts. The Project is also surrounded by commercial and industrial uses where workers may be present for eight or more hours per day. According to SCAQMD methodology, these uses may also be impacted by the Project's emissions. As discussed later, the thresholds selected for the Project's analysis are the most stringent thresholds established by SCAQMD for the Project's size, location, and receptor distances, and would be protective of all surrounding uses, not just sensitive receptors.

Checklist Discussion

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. CEQA requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125).

The following assesses the Project's consistency with SCAQMD's 2022 AQMP and SCAG's latest RTP/SCS. The 2022 AQMP contains air pollutant strategies that are based on SCAG's latest growth forecasts in the prior 2020-2045 RTP/SCS, which were devised in consultation with local governments and general plans. The 2022 AQMP's projections for achieving state and federal air quality goals are dependent on population, housing, and employment trend assumptions in the 2020-2045 RTP/SCS, so a project is consistent with the 2022 AQMP if it is consistent with the population, housing, and employment assumptions and smart growth strategies that were used in the 2020-2045 RTP/SCS. Connect SoCal 2024 is the region's latest RTP/SCS that has been adopted by SCAG and CARB, so this analysis will consider the Project's consistency with Connect SoCal 2024, not the prior 2020-2045 RTP/SCS. However, the methodologies for determining consistency are similar for both Connect SoCal 2024 and the 2020-2045 RTP/SCS. A project that is consistent with Connect SoCal 2024 would likely be consistent with the 2020-2045 RTP/SCS, which would in turn demonstrate its consistency with the 2022 AQMP. Therefore, a project that is consistent with Connect SoCal 2024 would likely be consistent with the 2022 AQMP. That is the basis for the following analysis.

Priority Development Areas (PDAs) such as Job Centers, Transit Priority Areas (TPAs), High Quality Transit Corridors (HQTCs), Neighborhood Mobility Areas (NMAs), Livable Corridors, and Spheres of Influence (SOIs) account for only 8.2 percent of the SCAG region's total land area but Connect SoCal 2024 anticipates that 66 percent of new household and 54 percent of employment growth will occur in these PDAs. According to Connect SoCal 2024, dense infill development in PDAs can reduce travel distances, increase mobility options, improve access to workplaces, leverage transit investments, and conserve the region's resource areas. Thus, Connect SoCal 2024 emphasizes new infill construction in PDAs and assumes a significant increase in multi-family housing and new jobs in such locations, in some cases even outpacing what is currently anticipated by local general plans. Projects fitting this land use pattern are consistent with Connect SoCal 2024.

The Project Site in an infill site that is located within or near multiple PDAs (e.g., HQTC, NMA, and Livable Corridor), the Project fits the land use pattern that is adopted and emphasized by Connect SoCal 2024. The Project includes an Ordinance to amend the citywide Zoning Map of Title 11 (Zoning) of the SGMC to change the zoning designation of the rear portion of the property at 9313 Rayo Avenue from IF to M3 to match the current M3 zoning designation of the front portion of the property. Pursuant to Table 11.21-4 (Commercial Industrial Zones Allowed Land Uses) of SGMC Section 11.21.030 (Land Use Permission Tables), "vehicle towing/impounding" uses are permitted by-right. The Project also includes expansion of the existing towing business operations that occur on the front (easterly) portion of the Project Site to occupy the entire site; however, the rear portion must be re-zoned to M3 to allow the proposed operations. Though the Project includes a zone change, the zone change serves to make the site's zoning consistent across the property and consistent with the existing General Plan designation. The Project Site is consistent with SCAG's land use assumptions and would not conflict with the growth strategies of Connect SoCal 2024. Therefore, the Project would not result in growth or accompanying emissions that are unaccounted for by Connect SoCal 2024 or the 2022 AQMP. Projects that are consistent with Connect SoCal 2024 are part of the regional solution for meeting the 2022 AQMP's air pollution reduction goals. The Project would not have a significant long-term impact on the region's ability to meet state and federal air quality standards.

Based on the above, the project would not result in an inconsistency with the SCAQMD AQMP. Therefore, impacts would be less than significant, and no mitigation measures would be required.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard?

Less Than Significant Impact. The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

Criteria pollutants include Ozone (O_3), Carbon Monoxide (CO), Nitrogen Dioxide (NO_2), Respirable Particulate Matter (PM_{10} and $PM_{2.5}$), Sulfur Oxides (SO_x), and lead. Currently, the Basin is a nonattainment area for the federal standards for O_3 and $PM_{2.5}$ and the state standards for O_3, PM_{10}, and $PM_{2.5}$.[13] The Los Angeles County portion of the Basin is also designated nonattainment for the federal standard for lead. Sources of lead emissions are ore and metals processing (e.g., lead smelters, leaded aviation gasoline combustion), waste incinerators, lead-acid battery manufacturing, etc.

The Project consists of a zone change on a portion of the Project Site, which would make the zoning designation consistent across the Project Site, which is consistent with the existing General Plan land use designation. The Project also includes expansion of the existing towing business operations to the entire Project Site. Construction of the Project could affect local and regional air quality due to the use of gasoline and diesel-powered construction equipment used to pave the new vehicle storage section of the Project Site and construct a new 560-square-foot office building, as well as the generation of construction vehicle trips. Demolition, grading, and any site preparation activities would also result in fugitive dust emissions. SCAQMD Rule 403 contains general requirements applicable to all fugitive dust sources, including the Project's construction, that involve minimizing visible emissions and reducing trackout from site

13 SCAQMD, National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Basin, available at: http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=14, accessed June 2026.

driveways. SCAQMD Rule 403(d)(2) requires all sources to implement "best available control measures" ("BACMs") for fugitive dust. The BACMs require potential sources of dust emissions to adopt measures such as pre-watering soils prior to cut and fill activities, stabilizing soils during and after cut and fill activities, and stabilizing disturbed soils with water or other stabilizing agents to prevent the generation of visible dust plumes. These procedures are mandatory as a matter of SCAQMD Rule 403 regulatory compliance. Because of the limited nature of the duration and scope of Project's construction activities (paving the expansion tow yard area and construction of a 560-square-foot office building), and regulatory compliance requirements for dust control, the Project's regional construction emissions would not exceed SCAQMD regional or local significance thresholds for VOC, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$.

The Project Site would continue to operate similar to existing conditions, as it is currently used as tow yard on the M3 portion of the site. The proposed expansion of use and associated zoning designation change would not result in air quality emissions in excess of SCAQMD regional operational emissions thresholds. The increase in tow yard capacity would not exceed SCAQMD screening criteria for CEQA analysis.[14]

Because the Project would not exceed the SCAQMD regional thresholds during construction or operation, the Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard. **Cumulative impacts would be less than significant, and no mitigation measures would be required.**

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. A significant impact may occur if a project were to generate pollutant concentrations to a degree that would significantly affect sensitive receptors.

Certain population groups are especially sensitive to air pollution and should be given special consideration when evaluating potential air quality impacts. These population groups include children, the elderly, persons with pre-existing respiratory or cardiovascular illness, and athletes or others who engage in frequent exercise. SCAQMD identifies the following as sensitive receptors: long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. The Project is located in a neighborhood with a diverse mix of land uses including commercial and industrial uses to the north, east and west, and a Los Angeles Unified School District (LAUSD) facility to the south. Specifically, a surface level parking lot is currently being developed directly to the north and west of the Project Site and is intended for an Amazon parcel delivery vehicle operation. A metal recycling facility (ELG Metals West Coast Inc.) is located to the east across Rayo Avenue. LAUSD operates a maintenance yard, administrative office, and adult school to the south. The closest sensitive receptor is the multi-family apartment building located west of the Project Site across Atlantic Avenue at 9301 Atlantic Avenue, approximately 437 feet from the Project Site.

As discussed above, due to the nature of the Project, the Project would not generate substantial concentrations of pollutants compared to the existing baseline conditions. The Project would continue to be required to adhere to existing SCAQMD rules and requirements designed to limit air quality emissions and prevent exceedances of air quality standards, as is the existing tow yard.

14 SCAQMD, Form 400-CEQA, California Environmental Quality Act (CEQA) Applicability.

Based on the above, the Project would not expose sensitive receptors to substantial pollutant concentrations. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. A significant impact may occur if objectionable odors occur which would adversely impact sensitive receptors.

Odors are typically associated with the use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes. According to the SCAQMD *CEQA Air Quality Handbook*, land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding.

The Project would involve expansion of the existing tow yard operations on the site, which is not associated with odor complaints. As such, no long-term operational objectionable odors are anticipated. **Therefore, potential impacts associated with objectionable odors would be less than significant and no mitigation would be required.**

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
4. BIOLOGICAL RESOURCES. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on State or federally protected wetlands a (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or State habitat conservation plan?	☐	☐	☐	☒

Regulatory Setting

Regulations exist at federal, State, and local levels with regard to biological resources and include:

a) Federal Endangered Species Act
b) Federal Migratory Bird Treaty Act
c) Federal Clean Water Act
d) U.S. Army Corps of Engineers
e) California Endangered Species Act
f) California Fish and Game Code
g) Natural Community Conservation Planning Act
h) Porter-Cologne Water Quality Control Act

i) South Gate General Plan 2035, Green City Element
j) South Gate Municipal Code

Environmental Setting

According to the City's General Plan, the City is entirely urbanized and has a diverse mix of land uses. The City primarily contains open space for outdoor recreation, provided by its City park and multiuse trail system and the nearby rivers, the Los Angeles River and the Rio Hondo Channel. There is also a small amount of open space for public health and safety, such as flood zones or buffers from highways.[15]

The Project Site is partially paved, fully fenced, and currently developed with one industrial building containing 12,550 square feet and surface parking area. The site is paved and does not contain any vegetation.

Checklist Discussion

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact. A significant impact may occur if a project were to remove or modify habitat for any species identified or designated as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the State or federal regulatory agencies cited.

The Project Site is currently developed with one building containing approximately 12,550 square feet, and a paved tow yard. The City is within driving distance to a variety of open space and natural areas that serve as habitat for sensitive species. Much of this natural open space is found in or is adjacent to the foothill regions of the San Gabriel, Santa Susana, Santa Monica, and Verdugo Mountains, the Simi Hills. Many of the outlying areas are contiguous with larger natural areas and may be part of significant wildlife habitats or movement corridors. The City contains few natural areas, albeit the Los Angeles River and the Rio Hondo Channel do run through the City. The Los Angeles River is located approximately 0.25 mile east of the Project Site and the Rio Hondo Channel is located approximately 0.01 mile east of the Site.

A review of the U.S. Fish and Wildlife Service National Wetlands Inventory, Wetlands Mapper classifies the Los Angeles River and the Rio Hondo Channel as riverine but does not identify any wetlands within the Project Site.[16] The Project Site and surrounding area are not identified or designated as parcels appropriate for park, plaza, or open space.[17] Moreover, the Project Site and immediately surrounding area are not within or near protected open space[18] or a designated Significant Ecological Area.[19] As the Project Site is completely paved and located within a heavily urbanized area of the City, the Project Site does not

15 South Gate General Plan 2035, Green City Element, December 2009.
16 U.S. Fish & Wildlife Service, Wetlands Mapper, https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/, accessed June 2026.
17 South Gate General Plan 2-35, Green City Element, December 2009, Figure GC 1.
18 Southern California Association of Governments, Data/Map Book for the City of South Gate, November 2019.
19 Los Angeles County Department of Regional Planning, Planning & Zoning Information, GIS-NET online database, https://rpgis.isd.lacounty.gov/Html5Viewer/index.html?viewer=GISNET_Public.GIS-NET_Public, accessed June 2026.

contain any habitat capable of sustaining any species identified as endangered, rare, or threatened. **Therefore, no impacts would occur, and no mitigation measures would be required**.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact. A significant impact may occur if riparian habitat or any other sensitive natural community identified locally, regionally, or by the State and federal regulatory agencies cited were to be adversely modified without adequate mitigation.

The Project Site is currently paved and operates as a tow yard. The site does not contain any vegetation. No riparian[20] or other identified habitat areas are located on or adjacent to the Project Site.[21] As discussed above, neither the Project Site nor adjacent areas are near protected open space or within a Significant Ecological Area; thus, implementation of the Project would not result in any adverse impacts to riparian habitat or other sensitive natural communities. **Therefore, no impacts would occur, and no mitigation measures would be required**.

c) Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. A significant impact may occur if State or federally protected wetlands are modified or removed without adequate mitigation.

The Project Site is currently developed with one building containing approximately 12,550 square feet and a paved tow yard. The site is in an urban area, is paved, and does not contain any vegetation. No riparian[22] or other sensitive habitat areas are located on or adjacent to the Project Site.[23] As discussed above, neither the Project Site nor adjacent areas are near protected open space or are within a Significant Ecological Area[24] or classified as wetlands;[25] thus, implementation of the Project would not result in any adverse impacts to State or federally protected wetlands such as marshes vernal pools, or coastal areas. **Therefore, no impacts would occur, and no mitigation measures would be required**.

20 U.S. Fish & Wildlife Service, Wetlands Mapper, https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/, accessed June 2026.
21 Southern California Association of Governments, Data/Map Book for the City of South Gate, November 2019.
22 U.S. Fish & Wildlife Service, Wetlands Mapper, https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/, accessed June 2026.
23 Southern California Association of Governments, Data/Map Book for the City of South Gate, November 2019.
24 Los Angeles County Department of Regional Planning, Planning & Zoning Information, GIS-NET online database, https://rpgis.isd.lacounty.gov/Html5Viewer/index.html?viewer=GISNET_Public.GIS-NET_Public, accessed June 2026.
25 U.S. Fish & Wildlife Service, Wetlands Mapper, https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/, accessed June 2026.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact. A significant impact may occur if a project would interfere or remove access to a migratory wildlife corridor or impede the use of native wildlife nursery sites.

The Project Site is currently developed with one building containing approximately 12,550 square feet and a paved tow yard. The site is in an urban area, is paved, and does not contain any vegetation. There are no protected species or heritage trees on the Project Site or in the adjacent public right-of-way. The Project Site is not located in a Significant Ecological Area[26] per County General Plans, and thus the Project Site is not part of a significant wildlife corridor. Additionally, there are no waterways located in the vicinity of the Project Site that are used by migratory fish, and there are no wildlife nursery sites in the area. **Therefore, no impacts would occur, and no mitigation measures would be required**.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance (e.g., oak trees or California walnut woodlands)?

No Impact. A project-related significant adverse effect could occur if a project is inconsistent with local regulations pertaining to biological resources.

The Project Site is not located in or adjacent to any area designated by the City's General Plan Green City Element as potentially having high or very high value habitat. Under Chapter 5.33, Tree Preservation and Protection, of the SGMC the City requires that no person, except for a person undertaking official business for the City, shall plant, remove, relocate, damage, excessively prune, or cut or encroach into the protected zone of any public tree within the City without first obtaining a permit from the Director of Public Works and paying the required fee. A "public tree" is defined as any single or multi-stemmed plan normally reaching mature heights of 15 feet or more, regardless of its current level of maturity, with one-half or more of its trunk or branches on or above all public property. There are no trees on the site and there are no "public trees" within the vicinity of the Project Site. Therefore, no conflict with local policies or ordinances protecting biological resources would occur and construction of the Project would not affect any protected trees. **Therefore, no impacts would occur, and no mitigation measures would be required**.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan?

No Impact. A significant impact may occur if a project is inconsistent with resource policies of any conservation plans of the types cited above.

The Project Site and its vicinity are not part of any draft or adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan.[27,28] **Therefore, no impacts would occur and no mitigation measures would be required**.

26 Los Angeles County Department of Regional Planning, Planning & Zoning Information, GIS-NET online database, https://rpgis.isd.lacounty.gov/Html5Viewer/index.html?viewer=GISNET_Public.GIS-NET_Public, accessed June 2026.
27 California Department of Fish and Wildlife, California Natural Community Conservation Plans, April 2019.
28 Southern California Association of Governments, Data/Map Book for the City of South Gate, November 2019.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
5. CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☐	☒	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at federal, State, and local levels with regard to cultural resources and include:

a) National Historic Preservation
b) National Register of Historic Places
c) Federal Native American Graves Protection and Repatriation Act
d) California Register of Historic Resources
e) CEQA Guidelines Section 15064.5
f) California Native American Graves Protection and Repatriation Act
g) California Health and Safety Code Section 7050.5
h) California Public Resources Code Section 5097
i) California Government Code Section 6254
j) Assembly Bill 52
k) Senate Bill 18
l) South Gate General Plan 2035

Environmental Setting

The Tongva tribe and other Native American tribes were the original inhabitants of the entire Los Angeles coastal area around South Gate. The vast Rancho San Antonio – stretching from the eastern boundary of the pueblo of Los Angeles to the San Gabriel River – was granted to Spanish settlers by the King of Spain in 1810, and South Gate grew up around the literal "south gate" of this Rancho. Before the end of the 1870's, much of the Rancho had been divided into 40-acre tracts, and by 1880 agriculture had replaced cattle ranching as the area's primary industry. In 1918, the Rancho was further subdivided and sold to 125 pioneering homeowners. The City of South Gate was incorporated in 1923.[29]

29 South Gate General Plan 2035, Introduction, December 2009.

Checklist Discussion

a. Cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines §15064.5?

***Less Than Significant Impact*.** Section 15064.5 of the State CEQA Guidelines defines an historical resources as: 1) a resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources; 2) a resource listed in a local register of historical resources or identified as significant in an historical resource survey meeting certain State guidelines; or 3) an object, building, structure, site, area, place, record or manuscript which a lead agency determines to be significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, provided that the lead agency's determination is supported by substantial evidence in light of the whole record.

The fact that a resource is not listed in, or determined to be eligible for listing in the California Register, not included in a local register of historical resources (pursuant to §5020.1(k) of the Public Resources Code), or identified in an historical survey (meeting the criteria in §5024.1(g) of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code §§5020.1 (j) or 5024.1.

A significant adverse effect would occur if a project were to adversely affect an historical resource meeting one of the above definitions. A substantial adverse change in the significance of a historic resource means demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired.

The Project Site is currently developed with one building containing 12,550 square feet. A search of the national and State Historic Register indicated that no historical resources are located within the Project Site or in the immediate area.[30, 31] In addition, the Project Site does not meet, or contain any structures that meet, any of the aforementioned criteria. The Project would be limited to the Project Site and will not affect any existing resources listed on the national or State Register or those identified as being eligible for listing on the national or State Register. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to State CEQA Guidelines §15064.5?

***Less Than Significant Impact*.** CEQA Guidelines Section 15064.5(a)(3)(D) generally defines archaeological resources as any resource that "has yielded, or may be likely to yield, information important in prehistory or history." Archaeological resources are features, such as tools, utensils, carvings, fabric, building foundations, etc., that document evidence of past human endeavors and that may be historically or culturally important to a significant earlier community. A project-related significant adverse effect could occur if the project were to affect archaeological resources which fall under either of these categories.

30 U.S. Department of the Interior, National Park Service. National Register of Historic Places. https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466, accessed June 2026.

31 California Office of Historic Preservation. California Historical Resources Listed, https://ohp.parks.ca.gov/ListedResources/?view=county&criteria=19, accessed June 2026.

The Project Site is located within an urbanized area of the City and has been subject to grading and development in the past, including for site remediation as further described below in **Checklist Question 9. Hazards and Hazardous Materials** of this Initial Study. Therefore, surficial archaeological resources that may have existed at one time have likely been previously disturbed. Nevertheless, it is always possible that unknown and unanticipated intact archaeological deposits and/or features could be present at subsurface levels. Should archaeological resources be inadvertently encountered, construction activities near the encounter shall be halted and retaining a qualified archaeologist shall be contacted to assess the find. All activities would be conducted in accordance with regulatory requirements as set forth in California Public Resources Code (PRC) 21083.2. Overall, with adherence to the City's condition of approval consistent with PRC 21083.2, the Project would not cause a substantial adverse change in the significance of an archaeological resource. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

c. Disturb any human remains, including those interred outside of dedicated cemeteries?

***Less Than Significant Impact*.** A significant adverse effect may occur if grading or excavation activities associated with a project were to disturb previously interred human remains.

The Project Site has been used for industrial and manufacturing purposes since the 1940s.[32] However, is unknown whether human remains are located at the Project Site. As the Project Site would be graded as part of the Project, human remains may be encountered unexpectedly during grading or construction activities. State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98. If human remains of Native American origin are discovered during Project construction, compliance with State laws, which fall within the jurisdiction of the NAHC (PRC Section 5097), relating to the disposition of Native American burials would be required. Considering the low potential for any human remains to be located on the Project Site and that compliance with regulatory standards described above would ensure appropriate treatment of any human remains unexpectedly encountered during grading activities, the Project's impact on human remains would be less than significant. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

[32] Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
6. ENERGY. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at State and local levels with regard to energy and include:

a) California Building Energy Efficiency Standards (Title 24, Part 6)
b) California Green Building Standards (Title 24, Part 11)
c) CEQA Guidelines Appendix F
d) California Air Resources Board's Advanced Clean Car Regulation
e) California Air Resources Board's Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling
f) California Air Resources Board's Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants from In-Use Heavy-Duty Diesel-Fueled Vehicles
g) Sustainable Communities Strategy (SB 375)

Environmental Setting

Electricity

Southern California Edison (SCE) provides electrical services in the City of South Gate, including to the Project Site, through State-regulated public utility contracts. SCE serves approximately 15 million people in a 50,000-square-mile area of Central, Coastal, and Southern California comprised of more than 180 incorporated cities and 15 counties.[33]

Natural Gas

Natural gas is provided to the City, including the project site, by Southern California Gas (SoCalGas). SoCalGas delivers natural gas to approximately 21.1 million customers in more than 500 communities within a 24,000-square-mile area of Central and Southern California. SoCalGas receives gas supplies from several sedimentary basins in the Western United States and Canada, including basins located in New Mexico, West Texas, Rocky Mountains, Western Canada, and California. Owing to standards created by

33 Southern California Edison, About SCE, Powering Southern California, https://www.sce.com/about-sce, accessed June 2026.

Title 20 and Title 24 Codes and Standards and renewable energy goals, SoCalGas projects that total gas demand will decline at an annual rate of 0.7 percent from 2,307 million cubic feet per day (MMcf/d) in 2024 to 2,055 MMcf/d in 2040.[34]

Transportation Energy

Petroleum fuels are primarily consumed by on-road and off-road equipment in addition to some industrial processes, commercial and residential equipment/systems, and electricity generation. In 2023, the transportation sector accounted for approximately 86 percent of total petroleum consumption in the State.[35] California is one of the top producers of petroleum in the nation with drilling operations occurring throughout the State. A network of crude oil pipelines connects production areas to oil refineries in the Los Angeles area, the San Francisco Bay area, and the Central Valley. California oil refineries also process Alaskan and foreign crude oil received at ports in Los Angeles, Long Beach, and the San Francisco Bay area. California requires all motorists use California Reformulated Gasoline, which is sourced almost exclusively from in-state refineries. Gasoline, which is used by light-duty cars, pickup trucks, and sport utility vehicles, is the most used transportation fuel in California with 2.9 billion gallons sold in the County of Los Angeles in 2024. Diesel, which is used primarily by heavy duty-trucks, delivery vehicles, buses, trains, ships, boats and barges, farm equipment, and heavy-duty construction and military vehicles, is the second most used fuel in California with 458 million gallons sold in the County of Los Angeles in 2024.[36] Though California's population and economy are expected to grow, gasoline demand is projected to decline through 2030 in response to both increasing vehicle electrification and higher fuel economy for new gasoline vehicles.[37]

Checklist Discussion

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact.

Construction

Petroleum-based fuels, such as gasoline and diesel, would be the primary sources of energy for the Project's construction activities which include paving, striping, and construction of a 560-square-foot building. Construction activities typically do not involve the consumption of natural gas. In addition, most of the electric-powered construction equipment would be hand tools (e.g., power drills, table saws, compressors) and lighting, which would be turned off when not in use to avoid unnecessary consumption. Overall, the use of electricity during construction would be temporary and would be well within the supply capabilities of the provider. Petroleum-based fuels would be required to power off-road construction

34 Southern California Gas Company, 2024 California Gas Report, 2024, pages 104 and 164—165.

35 Unites States Energy Information Administration, State Profile and Energy Estimates, California, Table F16: Total petroleum consumption estimates, 2023.

36 California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2024 (most recent reporting year), https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-retail-fuel-outlet-annual-reporting, accessed June 2026. Diesel is adjusted to account for retail (62.9%) and non-retail (37.1%) diesel sales.

37 California Energy Commission, Transportation Energy Demand Forecast, 2018-2030, page 85.

vehicles and equipment on the Project Site, construction worker travel to and from the Project Site, and vehicles used to deliver materials to the Site.

Consumption of transportation fuel during construction would be temporary in nature, and construction equipment used would be typical of similar-sized construction projects in the region. Construction activities would utilize fuel-efficient equipment consistent with state and federal regulations and the contractor would be required to comply with the California Air Resource Board (CARB)'s In-Use Off-Road Diesel Fueled Fleets Regulation that restricts the idling of heavy-duty diesel motor vehicles and governs the accelerated retrofitting, repowering, or replacement of heavy-duty diesel on- and off-road equipment. In addition, per applicable regulatory requirements, the Project would comply with construction waste management practices to divert construction and demolition debris. These practices would result in efficient use of transportation-energy necessary to construct the Project.

Operation

During operation of the Project, electricity and natural gas would be consumed for multiple purposes, including, but not limited to, HVAC, lighting, and the use of electronic equipment. The Project Site is currently operating as a tow yard, and the Project would allow the operator to utilize more of the site as a tow yard. This increased use of the site is not expected to result in any additional energy demand compared to existing conditions. As such, the Project's demands for electricity and natural gas would represent negligible portions of the energy consumption SCE and SoCalGas anticipate and have planned supplies for within their service areas. Furthermore, the Project's new building would be required to comply with all standards set in California Building Code (CBC) Title 24, which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation.

Transportation-related energy in the form of gasoline and diesel fuel would also be consumed during Project operations related to water usage, solid waste disposal, and additional vehicle trips to and from the Project Site as a result of the increased tow yard capacity created by the Project's expansion. Because the Project Site is currently operating as a tow yard and would continue to operate as such, but with an expanded tow yard footprint, fuel consumption by the Project would represent a negligible increase of fuel consumption compared to existing conditions.

Over the lifetime of the Project, the fuel efficiency of vehicles is expected to increase as a result of numerous regulations in place that require and encourage increased fuel efficiency and increasingly stringent emissions standards. As a result, the amount of petroleum consumed as a result of vehicular and truck trips to and from the Project Site during operation would be expected to correspondingly decrease over time due to improvements in the fuel economies of the fleet of vehicles and trucks used to access the Project.

Although the Project would increase energy use at the Project Site by adding a new 560-square foot office and additional tow yard capacity, the electrical and petroleum-based fuel demands would be a small fraction of projected demands within the service area of suppliers and, due to efficiency increases, are expected to diminish over time (particularly with respect to petroleum). As such, the Project would not result in the wasteful, inefficient, or unnecessary consumption of energy during construction or operation and impacts would be less than significant.

b) Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

Less Than Significant Impact. A significant impact may occur if a project were to conflict with a State or local plan for renewable energy or energy efficiency.

The energy conservation policies and plans relevant to the Project include the California Title 24 energy standards and CALGreen. As these conservation policies are mandatory, the Project would not conflict with applicable plans for renewable energy or energy efficiency. The Project would be designed and constructed in accordance with applicable State and local green building standards that would serve to reduce the energy demand of the Project. In addition, as discussed above, the demand for electricity and natural during construction and operation of the Project would represent a negligible increase compared to existing conditions at the Project Site. Therefore, the Project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
7. GEOLOGY AND SOILS. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning map, issued by the State Geologist for the area or based on other substantial evidence of a known fault?	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at State and local levels with regard to geology and soils and include:

a) National Pollutant Discharge Elimination System Permit
b) California Alquist-Priolo Earthquake Fault Zoning Act
c) California Building Code
d) California Public Resources Code Section 21083.2

e) California Seismic Hazards Mapping Act
f) City of South Gate Local Hazard Mitigation Plan
g) South Gate General Plan 2035, Healthy Community Element
h) South Gate General Plan 2035, Safety Element
i) South Gate Municipal Code

Environmental Setting

Faulting and Seismicity

There are no major fault zones located within the City.[38] While no known active faults cross the City, known seismic sources in the Project vicinity include, but are not limited to, the Newport-Inglewood Fault Zone, Palos Verdes Fault Zone, San Andreas Fault Zone, Santa Monica-Hollywood-Raymond Fault Zone and the Whittier-Elsinore Fault Zone. The nearest active or potentially active fault is the Newport-Inglewood Fault Zone, located approximately 18 miles west and southwest of the Project Site.[39] There are no mapped surfaces or subsurface faults that traverse the City and the City is not listed within a State designated Alquist-Priolo Earthquake Fault zone.[40] Therefore, surface fault rupture is unlikely to occur in the City.[41]

Soil Conditions

The soil under the City is alluvial deposits, which is material (often sand, silt, or gravel) deposited by a river. This soil type can be susceptible to liquefaction. The California Department of Conservation identifies all of the City as being at an elevated risk for liquefaction due to these soil types and a high water table (less than 40 feet below the surface).[42]

Paleontological Resources

As stated in City's General Plan Update Program EIR, no paleontological resources are known to be present within the City.[43]

38 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.
39 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.
40 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.
41 City of South Gate General Plan Update Program EIR, May 2009.
42 City of South Gate Local Hazard Mitigation Plan, Public Review Draft, April 9, 2024, adopted November 6, 2024, and State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.
43 City of South Gate General Plan Update Program EIR, May 2009.

Checklist Discussion

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving?

i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less Than Significant Impact. A significant impact may occur if a project is located within a State-designated Alquist-Priolo Zone or other designated fault zone, and appropriate building practices are not employed. Active earthquake faults are faults where surface rupture has occurred within the last 11,000 years. The Alquist-Priolo Earthquake Fault Zoning Act was passed in 1972 to mitigate the hazards of surface faulting and fault rupture to built structures. Surface rupture of a fault generally occurs within 50 feet of an active fault line.

The California Geological Survey (CGS) designates the zones extending approximately 200 to 500 feet from known active faults as Alquist-Priolo Earthquake Fault Zones. The Project Site is not located in a currently designated Alquist-Priolo Earthquake Fault Zone.[44] Nor is the Project within an area of regional faults recommended for further study. The nearest known active fault is the Newport-Inglewood Fault Zone, approximately 18 miles west of the Project Site.[45]

The Project would be required to comply with applicable State and local building and seismic codes including the California Building Standards Code (California Code of Regulations, Title 24) which requires various measures of all construction in California to account for hazards from seismic shaking. Conformance with current CBC and SGMC Chapter 9.02, City Building Code requirements would minimize the potential for people on the Project Site to sustain loss, injury, or death as a result of fault rupture. **Accordingly, less than significant impacts related to fault rupture would occur under the Project and no mitigation measures would be required**.

ii. Strong seismic ground shaking?

Less Than Significant Impact. A significant impact may occur if a project represents an increased risk to public safety or destruction of property by exposing people, property or infrastructure to seismically induced ground shaking hazards that are greater than the average risk associated with locations in the Southern California region.

Southern California is a seismically active region likely to experience, on average, one earthquake of Magnitude 7.0, and 10 earthquakes of Magnitude 6.0 over a period of 10 years. Active faults are those faults that are considered likely to undergo renewed movement within a period of concern to humans. These include faults that are currently slipping, those that display earthquake activity, and those that have historical surface rupture. CGS defines active faults as those which have had surface displacement within Holocene times (about the last 11,000 years). Such displacement can be recognized by the existence of sharp cliffs in young alluvium, un-weathered terraces, and offset modern stream courses. Potentially

44 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.

45 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.

active faults are those believed to have generated earthquakes during the Quaternary period, but prior to Holocene times.

To reduce geologic and seismic impacts, the City regulates development through the requirements of the CBC. The purpose of the CBC is to establish minimum standards to safeguard the public health, safety, and general welfare through structural strength, means of egress, and general stability by regulating and controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of all building and structures within its jurisdiction. The earthquake design requirements of the CBC consider the occupancy category of the structure, site class, soil classifications, and various seismic coefficients. The CBC provides standards for various aspects of construction, including but not limited to grading, earthwork, construction, preparation of the site prior to fill placement, specification of fill materials, fill compaction and field testing, retaining wall design and construction, foundation design and construction, and seismic requirements. It includes provisions to address issues such as (but not limited to) construction on expansive soils and soil strength loss. In accordance with California law, Project design and construction would be required to comply with provisions of the CBC and SGMC Chapter 9.02, City Building Code. Conformance with standard engineering practices and design criteria would reduce the effects of seismic ground shaking to less than significant. **Therefore, impacts related to seismic ground shaking would be less than significant and no mitigation measures would be required**.

iii. Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. A significant impact may occur if a project is located in an area identified as having a high risk of liquefaction and mitigation measures required within such designated areas are not incorporated into the project. Liquefaction describes a phenomenon where cyclic stresses, which are produced by earthquake-induced ground motions, create excess pore pressures in cohesionless soils. As a result, the soils may acquire a high degree of mobility, which can lead to lateral spreading, consolidation and settlement of loose sediments, ground oscillation, flow failure, loss of bearing strength, ground fissuring, and sand boils, and other damaging deformations. This phenomenon occurs only below the water table, but after liquefaction has developed, it can propagate upward into overlying, non-saturated soils as excess pore water escapes. The possibility of liquefaction occurring at a given site is dependent upon the occurrence of a significant earthquake in the vicinity, sufficient groundwater to cause high pore pressures, and on the grain size, relative density, and confining pressures of the soil at the site. Additional various general types of ground failures which might occur as a consequence of severe ground shaking at the site include landslides, ground subsidence, ground lurching and shallow ground rupture.

As previously stated, the California Department of Conservation identifies all of the City as being at an elevated risk for liquefaction due to soil types underlying the City and a high water table (less than 40 feet below the surface).[46] Additionally, the CGS EQ ZAPP: California Earthquake Hazards Zone Application, shows the Project Site as being within a liquefaction zone when subject to a Maximum Probable Earthquake (MPE) or Maximum Considered Earthquake (MCE) event.[47] As discussed above, the City regulates development through the requirements of the CBC which include design requirements specific to the site class, soil classifications, and various seismic coefficients of the site and proposed construction. In accordance with California law, Project design and construction would be required to comply with

46 City of South Gate Local Hazard Mitigation Plan, Public Review Draft, April 9, 2024, adopted November 6, 2024.
47 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.

provisions of the CBC and SGMC Chapter 9.02, City Building Code. Conformance with standard engineering practices and design criteria would reduce the potential for seismic related ground failure, including liquefaction, to less than significant. **Therefore, impacts would be less than significant**.

iv. Landslides?

No Impact. A significant adverse effect may occur if a project is located in a hillside area with soil conditions that would suggest high potential for sliding.

As stated in City's General Plan Update Program EIR, the City has relatively flat topographic relief and therefore, damage from earthquake-induced landsliding is not anticipated. Additionally, the CGS EQ ZAPP: California Earthquake Hazards Zone Application, shows (i) the Project Site is not located within an area potentially susceptible to seismically-induced landslides; and (ii) that no landslides are mapped within the Project Site.[48] **Therefore, no impacts would occur and no mitigation measures would be required.**

b) Result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact. A significant impact may occur if a project exposes large areas to the erosional effects of wind or water for a protracted period of time.

Grading during the construction phase of the Project would displace soils and temporarily increase the potential for soils to be subject to wind and water erosion. The contractor would be required to comply with standard engineering practices for erosion control, and the construction contractor would be required to implement standard dust control measures and construction site stormwater runoff control measures (see **Checklist Question 10, Hydrology and Water Quality**). Conformance with such standards would reduce the potential for substantial soil erosion or the loss of topsoil from the Project Site during the grading and construction phase. Once construction is complete, all exposed soil materials would be covered (e.g., paved, developed, and/or landscaped) and there would be minimal potential for erosion or siltation to occur. **Regulatory compliance with standard engineering practices, CBC requirements, and local engineering design regulations would reduce Project impacts to a level of less than significant, and no mitigation measures would be required.**

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less Than Significant Impact. A significant impact may occur if a project is built in an unstable area without proper site preparation or design features to provide adequate foundations for project buildings, thus posing a hazard to life and property. Potential impacts with respect to liquefaction and landslide potential are evaluated in **Checklist Questions 6(a)(iii)** and **(iv),** above.

Lateral spreading is a phenomenon in which large blocks of intact, non-liquefied soil move downslope on a liquefied soil layer. Lateral spreading is often a regional event. For lateral spreading to occur, a liquefiable soil zone must be laterally continuous and unconstrained to move along sloping ground. Lateral spreading is typically exemplified by the formation of vertical cracks on the surface of liquefied soils and usually

48 State of California Department of Conservation, EQ ZAPP: California Earthquake Hazards Zone Application, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed June 2026.

takes place on gently sloping ground or level ground with nearby free surface such as drainage or stream channel. Because lateral spreading is the lateral movement of soils that have undergone liquefaction, the Project would, accordingly, not result in lateral spreading. Subsidence and ground collapse generally occur in areas with active groundwater withdrawal or petroleum production. The extraction of groundwater or petroleum from sedimentary source rocks can cause the permanent collapse of the pore space previously occupied by the removed fluid. There are no oil drilling activities on the Project Site and the Project itself does not propose oil drilling or any other direct withdrawal or injection of fluid into the subsurface soils beneath the Site. The topography at the Project Site is relatively level, with no pronounced highs or lows. Also, the Project Site is not located within an area identified as having a potential for seismic slope instability. There are no known landslides near the Project Site, nor is the Site in the path of any known or potential landslides. **Therefore, impacts related to soil instability would be less than significant.**

d) Be located on expansive soil, as defined in Table 18 1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less than Significant Impact. A significant impact may occur if a project is built on expansive soils without proper site preparation or design features to provide adequate foundations for project buildings, thus posing a hazard to life and property. Expansive soils are clay-based soils that tend to expand as they absorb water and shrink as water is drawn away.

As stated in the Local Hazard Mitigation Plan, there are no expansive soil issues within the City.[49] Regardless, the Project would be required to comply with the CBC, SGMC Chapter 9.02, City Building Code, and other applicable building codes which include building foundation requirements appropriate to Site-specific conditions and any conditions or recommendations established for the Project by the Building and Safety Division during their review of Project plans as part of the building and grading permit approval process. **Therefore, impacts from expansive soil would be less than significant and no mitigation measures would be required**.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. A significant impact may occur if a project is located in an area not served by an existing sewer system.

The Project Site is located in a developed area of the City, which is served by a wastewater collection, conveyance, and treatment system operated by Los Angeles County Sanitation Districts (LACSD). Therefore, no septic tanks or alternative disposal systems would be necessary, nor are they proposed. **Accordingly, no impacts related to inadequate septic tank support would occur and no mitigation measures would be required**.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant Impact. A significant impact may occur if a project directly or indirectly destroys a

49 City of South Gate Local Hazard Mitigation Plan, Public Review Draft, April 9, 2024, adopted November 6, 2024.

unique paleontological resource or site or unique geologic feature.

Paleontological resources are the fossilized remains, imprints, or traces of past life preserved in the geologic record. This can include bones, teeth, soft tissues, shells, plant material, microscopic organisms, footprints, trackways, and burrows. Fossils are the only record of the natural history of life on this planet. Despite the frequency of sedimentary rock in the geologic record, and the number of organisms that have lived throughout the planet's history, only a very small number of remains have been preserved in the fossil record. Fossils are important scientific resources, allowing the study of:

- The evolutionary history of extinct organisms, including their lifestyle, interrelationships, distribution, speciation, extinction, and relation to modern groups.
- The taphonomic agents responsible for fossil preservation, including biases in the fossil record.
- Ancient environments, in which these organisms lived, and the distribution and change in these environments and their organisms through time.
- The temporal relationships of rock deposits from one area to another, and the timing of geologic events.

As stated in City's General Plan Update Program EIR, no paleontological resources are known to be present within the City.[50] However, significant portions of the City have not been surveyed or studied for cultural resources.[51] The Project construction would include surface grading of a portion of the Project Site prior to paving, striping, and construction of a new 560-square foot building. The Project does not require excavation and thus would be unlikely to uncover fossil vertebrate remains. In the event archaeological resources or paleontological resources are discovered, found deposits would be treated in accordance with federal, State, and local guidelines, including those set forth in California Public Resources Code Section 21083.2. Therefore, with regulatory compliance, the Project would not directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. **Accordingly, impacts would be less than significant, and no mitigation measures are required.**

Mitigation Measures

None required.

50 City of South Gate General Plan Update Program EIR, May 2009.
51 City of South Gate General Plan Update Program EIR, May 2009.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
8. GREENHOUSE GAS EMISSIONS. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at State, regional, and local levels with regard to GHGs and include:

- Executive Order S-3-05 (EO S-3-05)
- Assembly Bill 32 (AB 32) (codified EO S-3-05)
- Senate Bill 97 (SB 97)
- Senate Bill 375 (SB 375)
- CARB Climate Change Scoping Plan (the "AB 32 Scoping Plan")
- CARB Supplemental Functional Equivalent Document to the Climate Change Scoping Plan (the "Supplemental FED")
- CARB First Update to the Climate Change Scoping Plan: Building on the Framework (the "First Update")
- Executive Order B-30-15 (EO B-30-15)
- Senate Bill 32 (SB 32) (codified EO B-30-15)
- CARB 2017 Climate Change Scoping Plan Update: The Strategy for Achieving California's 2030 Greenhouse Gas Target (the "2017 Scoping Plan")
- Executive Order B-55-18 (EO B-55-18)
- Assembly Bill 1297 (AB 1297) (codified EO B-55-18)
- CARB 2022 Scoping Plan for Achieving Carbon Neutrality (the "2022 Scoping Plan")

Environmental Setting

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation, and storms. Global warming, a related concept, is the observed increase in average temperature of Earth's surface and atmosphere. One identified cause of global warming is an increase of GHG emissions in the atmosphere. GHG emissions are those compounds in Earth's atmosphere that play a critical role in determining Earth's surface temperature.

Earth's natural warming process is known as the "greenhouse effect." It is called the greenhouse effect because Earth and the atmosphere surrounding it are similar to a greenhouse with glass panes in that the glass allows solar radiation (sunlight) into Earth's atmosphere but prevents radiative heat from escaping, thus warming Earth's atmosphere. Some levels of GHG emissions keep the average surface temperature of Earth close to a hospitable 60 degrees Fahrenheit. However, it is believed that excessive concentrations

of anthropogenic GHG emissions in the atmosphere can result in increased global mean temperatures, with associated adverse climatic and ecological consequences.

GHG emissions include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3).[52] Carbon dioxide is the most abundant GHG. Other GHG emissions are less abundant but have greater global warming potential than CO_2. Thus, emissions of other GHGs are frequently expressed in their equivalent mass of CO_2, denoted as CO_2e. Forest fires, decomposition, industrial processes, landfills, and the consumption of fossil fuels for power generation, transportation, heating, and cooking are the primary sources of GHG emissions.

Local Regulations

City of South Gate General Plan

The City's General Plan Green City, Mobility, Community Design, and Public Facilities and Services Elements contain goals and policies that would indirectly serve to reduce the City's GHG emissions. Many policies are aspirational or apply only to City actions. Others have not yet been fulfilled. For example, Implementation Action GC 11 calls for the creation of a Climate Action Plan (CAP) to clarify how the City will meet its emission reductions targets. However, the City has yet to create such a CAP. Ultimately, there are no policies that would be directly applicable to the Project and its GHG emissions, or this analysis.

Significance Thresholds

Appendix G of State CEQA Guidelines

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[53]

Neither the City nor the SCAQMD has adopted GHG significance thresholds for land use development projects such as the Project. SCAQMD has adopted significance thresholds for industrial-type projects for which it is the lead agency, but the SCAQMD industrial thresholds are not relevant to the Project, as the

52 As defined by California Assembly Bill (AB) 32 and Senate Bill (SB) 104.

53 The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

SCAQMD is not the lead agency, and the City has not adopted the SCAQMD's thresholds for assessment of this Project's GHG impacts.

In the absence of any applicable adopted numeric threshold, the significance of the Project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b) by considering whether the Project would conflict with applicable regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. For this Project, as a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is Connect SoCal 2024, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the State's long-term climate goals. This analysis also addresses the Project's qualitative consistency with the 2022 Scoping Plan. CARB's 2022 Scoping Plan provides strategies and programs aimed at achieving EO B-55-18 and AB 1279's GHG emissions reduction goal, which is a target of 85 percent below 1990 levels by 2045. Consistency with the 2022 Scoping Plan demonstrates a project's consistency with the EO B-55-18 and AB 1279 GHG emissions reduction goals.

Checklist Discussion

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact. A project may have a significant impact if project-related emissions would exceed federal, State, or regional standards or thresholds.

A fundamental difficulty in the analysis of GHG emissions is the global nature of existing and cumulative future conditions. Changes in GHG emissions can be difficult to attribute to a particular planning program or project because the planning effort or project may cause a shift in the locale of some GHG emissions, rather than causing "new" GHG emissions. As a result, it is difficult to conclude whether a project's GHG emissions would represent a net global increase or reduction. For example, if a multi-family residential project replaces an existing supermarket, GHG emissions associated with the existing supermarket would not be totally eliminated because former patrons of the supermarket would still drive and get groceries somewhere else, which would continue to generate associated GHG emissions. GHG emissions associated with the new multi-family residential project would not be totally new, because many residents will have presumably moved there from other housing. Their GHG emissions would be shifted from their old housing to their new housing, but if the new multi-family residential project has access to high quality transit and walkable destinations, then there is a strong likelihood that the residents' GHG per capita would be reduced on average by their move to the new project. The Project includes continued operation of the site as a tow yard, with an increased paved footprint for additional storage capacity. This is not expected to generate a significant GHG-related impact on the environment, as the vehicles stored on the Project Site would likely be stored elsewhere in the area if the Project Site did not have capacity for the additional vehicles. While the additional capacity may result in an increase in trips from towing trucks, the increase is not expected to be significant as the expanded storage capacity of the site is not significant.

As discussed above, in the absence of any applicable adopted numeric threshold, the significance of the Project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b) by considering whether the Project would conflict with applicable regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. The Project's potential to conflict with applicable plans or regulations are discussed below under **Checklist Question 8b,** below.

Therefore, with respect to generation of greenhouse gas emissions, impacts would be less than significant, and no mitigation measures would be required.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact.

A significant air quality impact may occur if a project is not consistent with applicable plans designed to reduce greenhouse gas emissions such as a Climate Action Plan, or would in some way represent a substantial hindrance to employing the policies or obtaining the goals of such a plan.

The project would not have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

Connect SoCal 2024 is expected to help the SCAG region reduce per capita vehicle GHG emissions by 19 percent by 2035, thus enabling the region to fulfill its portion of SB 375 compliance.

Generally, projects are considered consistent with the provisions of regional land use plans and regulations if they are compatible with the general intent of the plans and would not preclude the attainment of their primary goals. The land use pattern emphasized by Connect SoCal 2024 involves concentrating new, dense housing and/or job growth in infill locations and PDAs in an effort to facilitate alternative transportation modes and reduce vehicle trips and VMT. PDAs such as Job Centers, Transit Priority Areas (TPAs), High Quality Transit Corridors (HQTCs), Neighborhood Mobility Areas (NMAs), Livable Corridors, and Spheres of Influence (SOIs) account for just 8.2 percent of total land in the SCAG region, but they are projected to accommodate 66 percent of the region's future household growth and 54 percent of the region's future employment growth by 2025. Therefore, dense housing and job growth within PDAs is aligned with Connect SoCal 2024's goals, and Projects fitting this land use pattern are consistent with Connect SoCal 2024.

By expanding an existing operation (tow yard) on an infill site that is located within or near multiple PDAs (e.g., TPA, HQTC, NMA, and Livable Corridor), the Project fits the land use pattern that is adopted and emphasized by Connect SoCal 2024, and the Project would contribute directly to its goals. The Project is appropriately located and supports Connect SoCal 2024's smart growth strategies to efficiently coordinate land use and transportation to reduce VMT and related GHG emissions. Projects that are consistent with Connect SoCal 2024 are part of the regional solution for meeting SB 375's GHG emissions targets.

In summary, the consistency analysis provided above demonstrates that the Project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
9. HAZARDS AND HAZARDOUS MATERIALS. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☒	☐	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☒	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles or a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☐	☒

Historically, the northern portion of the Project Site was used for drum recycling and reconditioning operations beginning in the early 1940s, and Sanborn Fire Insurance maps from 1950 and 1970 show the southern portion of the Project Site was used as a lumber and coke storage yard and as a plumbing material storage yard. Cooper Drum Company acquired the Project Site in 1971 and expanded drum reconditioning operations across the Project Site by 1976, operating the Project Site until 1992, when the drum reconditioning operations were sold to Waymire Drum Company, who continued to operate the drum recycling facility until June 1996, when the operations were sold to Consolidated Drum Company. Consolidated Drum performed drum recycling operations through 2003, at which time the drum recycling

ended.[54] Drum processing activities resulted in releases of hazardous substances to soil and groundwater, prompting investigations and corrective actions related to soil, soil vapor, and groundwater beneath the Property. Identified contaminants of concern include chlorinated volatile organic compounds (VOCs) such as tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and 1,4-dioxane, as well as non-volatile organic compounds including polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, metals (including lead), and other site-related constituents.[55] Drum recycling operations ceased in 2003, and the Project Site was subsequently used for pallet storage after 2003 and was vacant from 2009 until 2024 when it was acquired by FUBAR Properties, LLC and occupied by Mr. C's Towing. Due to contamination as a result of the previous drum recycling and reconditioning operations, the United States Environmental Protection Agency (U.S. EPA) added the Project Site to the Superfund National Priorities List of hazardous waste sites requiring remedial action.[56]

The Project Site was listed on the National Priorities List in 2001, and remedial actions for soil and groundwater were implemented beginning in 2010 under EPA oversight, with investigations and corrective actions overseen by the Los Angeles Department of Health Services, the California Department of Toxic Substances Control (DTSC) and the U.S. EPA. The Project Site is known as the "Cooper Drum Company Superfund Site" in DTSC and U.S. EPA documents.

The following analysis of potential hazards and hazardous materials impacts of the Project is based, in part, on the following documentation related to the history of contamination on the Project Site and remediation activities, and the findings, conclusions, and recommendations of these documents are incorporated by reference herein:

- Shallow Soil Sampling Work Plan, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., March 2025. Included as **Appendix HAZ-1** to this document.
- Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as **Appendix HAZ-2** to this document.
- Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026. Included as **Appendix HAZ-3** to this document.

54 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

55 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026. Included as Appendix HAZ-3 to this document.

56 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

Regulatory Setting

Regulations exist at federal, State, and local levels with regard to hazards and hazardous materials and include:

- Comprehensive Environmental Response, Compensation, and Liability Act
- Resources Conservation and Recovery Act
- Hazardous Materials Transportation Act
- Federal Aviation Regulations Part 77
- California Code of Regulations
- California Hazardous Material Management Act
- Emergency Response to Hazardous Materials Incidents
- California Government Code Section 65962.5
- County of Los Angeles All-Hazards Mitigation Plan
- South Gate General Plan 2035, Safety Element
- South Gate Municipal Code

Environmental Setting

Hazardous Materials

Hazardous materials encompass a wide range of substances, some of which are naturally occurring and some of which are man-made. Examples of hazardous materials include pesticides, herbicides, petroleum products, metals (e.g., lead, mercury, arsenic), asbestos, and chemical compounds used in manufacturing. Hazardous materials are used for a variety of purposes, including service industries, various small businesses, medical uses, schools, and households. Many chemicals used in household cleaning, construction, dry cleaning, film processing, landscaping, and automotive maintenance and repair are considered hazardous. Small-quantity hazardous waste generators include facilities such as automotive repair, dry cleaners, and medical offices. Hazardous materials could pose a substantial present or future hazard to human health or the environment when improperly handled, disposed, or otherwise managed.

Checklist Discussion

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact. A significant impact may occur if a project involves use or disposal of hazardous materials as part of its routine operations and would have the potential to generate toxic or otherwise hazardous emissions that could adversely affect sensitive receptors. The closest sensitive receptor is the multi-family apartment building located west of the Project Site across Atlantic Avenue at 9301 Atlantic Avenue, approximately 437 feet west of the Project Site.

Construction of the Project would involve the temporary transport, use, and disposal of potentially hazardous materials such as paints, adhesives, surface coatings, cleaning agents, fuels, and oils that are typically associated with development of a commercial office development project. All of these materials would be used temporarily during construction. Additionally, all potentially hazardous materials associated with construction activities would be used and stored in accordance with manufacturers' instructions and handled in compliance with applicable standards and regulations, which further

minimizes the potential risk associated with construction-related hazardous materials, including the implementation of standard construction BMPs for the use and handling of such materials. Any use of potentially hazardous materials utilized during construction of the Project would comply with all local, State, and federal regulations regarding the handling of potentially hazardous materials and risk of spills would cease after construction is completed. The transport, use, and storage of hazardous materials during the construction of the Project would be conducted in accordance with all applicable federal, State and local laws, such as the Hazardous Materials Transportation Act, Resource Conservation and Recovery Act, California Hazardous Material Management Act, and CCR Title 2. Construction activities would be contained on the Project Site and, thus, any emissions from the use of such materials would be minimal and localized to the Project Site. Therefore, construction of the Project would not expose persons or the environment to a substantial risk resulting from the release of hazardous materials or exposure to health hazards in excess of regulatory standards.

Operation of the Project would not involve the routine use, transport, or disposal of hazardous materials. The Project includes continued operation of the existing tow yard, with expansion of the tow yard operation across the entire Project Site. This use does not involve the routine use of hazardous materials**.** Instead, the operation of the Project has limited hazardous materials that are similar to any other urban development such as cleaning solvents, paints, and pesticides for landscaping. As a result, the Project generally would not produce significant amounts of hazardous waste, use or transport hazardous waste beyond those materials typically used in an urban development. Therefore, operation of the Project would not expose persons or the environment to a substantial risk resulting from the release of hazardous materials or exposure to health hazards in excess of regulatory standards.

Moreover, the Project would adhere to federal, State, and local regulatory requirements for source hazardous waste reduction measures (e.g., recycling of used batteries, etc.) that would further minimize the generation of hazardous waste. The Project would be required to comply with the applicable City ordinances regarding implementation of hazardous waste reduction efforts on-site. The applicable regulatory requirements further ensure that any hazardous materials associated with the Project are properly treated and disposed of at licensed resource recovery facilities or hazardous waste landfills. The potential transport of any hazardous materials and wastes, i.e., paints, adhesives, surface coatings, cleaning agents, fuels, and oils, if it occurs, would occur in accordance with federal and State regulations that govern the handling and transport of such materials. In accordance with such regulations, the transport of hazardous materials and wastes would only occur with transporters who have received training and appropriate licensing. **Therefore, impacts related to the transport, use, and disposal of hazardous materials would be less than significant and no mitigation measures would be required**.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant Impact With Mitigation Incorporated. A significant impact may occur if a project could release hazardous materials into the environment during construction if spills of hazardous materials required for normal construction activities (vehicle fuels, paints, oils, and transmission fluids) occur, if asbestos-containing materials (ACMs) and lead-based paint (LBP) that may be encountered are not properly handled and disposed of, or if contaminated soils and/or groundwater are encountered during excavation and proper erosion controls and disposal methods are not implemented. The Project could also release hazardous materials into the environment during operation is spills or emissions of hazardous materials required for normal operation of commercial land uses (cleaning solvents, paints, pesticides for landscaping, waxes, dyes, toners, bleach, grease, and petroleum products) occurs.

Site History

As summarized above, the Project Site was used for drum recycling and reconditioning operations beginning in the early 1940s until 2003. These activities resulted in releases of hazardous substances to soil and groundwater, prompting investigations and corrective actions overseen by the DTSC and the U.S. EPA. The Project Site was listed on the National Priorities List in 2001, and remedial actions for soil and groundwater were implemented beginning in 2010 under EPA oversight.

Environmental investigations conducted under the oversight of the EPA and DTSC have identified impacts to soil, soil vapor, and groundwater beneath the Project Site. Identified contaminants of concern include chlorinated volatile organic compounds (VOCs) such as tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and 1,4-dioxane, as well as non-volatile organic compounds including polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, metals (including lead), and other site-related constituents.[57]

Remedial Action

EPA-selected remedial actions for the Site include soil vapor extraction, dual-phase extraction, groundwater extraction and treatment, and institutional controls. These remedies are ongoing, and periodic Five-Year Reviews are conducted to evaluate protectiveness of human health and the environment. Information regarding Site history, identified contaminants of concern, remedial systems, and current Site status is available through EPA's Superfund records and online repositories[58] including EnviroStor.[59] A Record of Decision (ROD) defined the Remedial Action and divided the Site into two operable units ("OU") based on the depth and media affected in each. Operable Unit 1 (OU1) is limited to groundwater containing site-related chemicals of concern (COCs) within the Gaspur aquifer at depths between approximately 60 feet below ground surface (bgs) and 120 feet bgs beneath and downgradient of the Site. OU2 includes the unsaturated soil (vadose zone) and saturated soil (perched groundwater) overlying a portion of OU1. The OU1 Remedial Action was divided into two phases including groundwater extraction on the property and the downgradient area north of Southern Avenue (Phase 1) and groundwater remediation south of Southern Avenue and north of McCallum Avenue (Phase 2). The OU2 Remedial Action was divided into Phase 1 including soil vapor extraction (SVE) and dual phase extraction (DPE) and Phase 3 soil excavation.[60]

Remedial activities have been on-going at the Project Site for over 15 years, beginning in 2011 with SVE, followed by DPE and groundwater extraction in 2012. The goal of the DPE system was to remove COC-impacted perched groundwater from OU2 and extend the depth of SVE vapor mass recovery in the unsaturated zone, while the groundwater extraction system was designed to remove COC-impacted

57 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026. Included as Appendix HAZ-3 to this document.

58 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026. Included as Appendix HAZ-3 to this document.

59 Department of Toxic Substances Control, EnviroStor, COOPER DRUM (19500052), https://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=19500052 accessed July 2026.

60 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

groundwater from within the Gaspur aquifer and provide hydraulic control of groundwater (within the Phase 1 RAA) originating from the Project Site.[61]

These remedial actions at the Project Site are on-going and include continued remediation, monitoring of site conditions, and reporting, under the oversight of DTSC and U.S. EPA.

In 2026, JHA Environmental, Inc. prepared a Focused Soil Management Plan (SMP) to be used during soil disturbance activities associated with the installation of a new wall along the eastern boundary of the Project Site (see **Appendix HAZ-3** to this Initial Study). Pre-profiling activities were conducted to characterize soil conditions on the Project Site, specifically along the proposed trench alignment for the wall and associated footing installation. A total of ten (10) direct-push soil borings (SB-1 through SB-10) were advanced along the proposed trenching footprint, which is estimated to be approximately 4 feet wide and 3 feet deep. Each boring was advanced to a total depth of approximately 3 feet bgs. Soil samples were collected at approximately 2 and 3 feet bgs and submitted for laboratory analysis of VOCs, total petroleum hydrocarbons (TPH), Title 22 metals, and PCBs. Analytical results indicated that VOCs and/or TPH were detected in soil; however, concentrations did not exceed applicable screening levels. PCBs were detected at concentrations exceeding applicable screening levels and were determined to require disposal as hazardous waste. Metals were detected in soil samples; however, only lead was reported at concentrations warranting further evaluation of potential leaching characteristics prior to disposal. The additional leaching analyses for lead determined that samples were below applicable regulatory thresholds for classification as hazardous waste.[62] The SMP includes regulatory compliance measures and requirements related to soil handling, fugitive dust and vapor control, soil excavation and stockpiling, and construction soil monitoring which includes sample collection and testing and stormwater management. The SMP was prepared and implemented during site improvements to establish procedures for managing soil disturbance activities associated with the proposed site improvements based on existing soil pre-profiling data, and to define protocols for addressing any previously unknown soil impacts potentially encountered during construction.

Because the Project Site is an active Superfund Site with identified soil, soil gas, and groundwater contamination, the Project, in particular the grading activities proposed, has the potential to create a hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. To avoid such potential impacts, the Project is required to implement mitigation measure **MM-HAZ-1** for adherence with a SMP related to all site grading activities associated with the Project. **With the incorporation of mitigation measure MM-HAZ-1 below, the Project impacts would be less than significant.**

61 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

62 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026. Included as Appendix HAZ-3 to this document.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant Impact With Mitigation Incorporated. A significant adverse effect may occur if a Project Site is located within one-quarter mile of an existing or proposed school site and is projected to release toxic emissions which pose a health hazard beyond regulatory thresholds.

The closest school to the Project Site is the LAUSD adult school, adjacent to the Project Site to the south. Tweedy Elementary School (9724 Pinehurst Avenue) is located 0.18 mile (1,000 feet) to the southwest of the Project Site. As explained above in response to **Checklist Question 9(a)**, impacts related to handling of or emissions from hazardous materials during construction and operation of the Project would be less than significant due to the Project's compliance with manufacturer recommendations and all federal, State, and local regulations for the storage, use, transport, and disposal of hazardous materials. The Project's incorporation of mitigation measure **MM-HAZ-1** would prevent potential upset and accident conditions involving the release of hazardous materials into the environment as explained above in response to **Checklist Question 9(b)**. Furthermore, the on-going remediation activities would not allow for any hazardous materials at the site to migrate to the schools. **As such, impacts related to the emission of hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of a school would be less than significant with the incorporation of mitigation measure MM-HAZ-1**.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less Than Significant Impact With Mitigation Incorporated. California Government Code Section 65962.5 requires various State agencies to compile lists of hazardous waste disposal facilities, unauthorized releases from underground storage tanks, contaminated drinking water wells and solid waste facilities where there is known migration of hazardous waste and submit such information to the Secretary for Environmental Protection on at least an annual basis. A significant impact may occur if a Project Site is included on any of the above lists and poses an environmental hazard to surrounding sensitive uses.

As discussed in response to **Checklist Question 9(b)** above, the Project Site is a Superfund Site. The Project Site is subject to ongoing remediation activities associated with the former uses of the Project Site and subsequent releases of hazardous materials into the soil. As discussed above in response to **Checklist Question 9(b)**, the Project is required to incorporate mitigation measure **MM-HAZ-1** to adhere to a SMP to mitigate any potential impacts related to the on-site soil, soil gas, and groundwater contamination. With implementation of mitigation measure **MM-HAZ-1**, the Project would not create a significant hazard to the public or the environment as a result of its listing on the above databases compiled pursuant to Government Code Section 65962.5. **Therefore, impacts would be less than significant with mitigation**.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. A significant impact may occur if a project is located within a public airport land use plan area, or within two miles of a public airport, and subject to a safety hazard.

The Project Site is located approximately 11.5 miles east of the Los Angeles International Airport (1 World Way). The Project Site is not located within the Planning Boundary/Influence Area of the Los Angeles International Airport including within the Airport Safety Zone or Airport Land Use Plan Noise Contour, which establishes the area susceptible to noise levels that would exceed the annoyance threshold for noise (defined as >65 CNEL for commercial airports such as the Los Angeles International Airport).[63] **Accordingly, no impacts associated with safety hazards or excessive noise from proximate airports would occur and no mitigation measures would be required**.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. A significant impact may occur if a project were to interfere with roadway operations used in conjunction with an emergency response plan or emergency evacuation plan or would generate traffic congestion that would interfere with the execution of such a plan.

As stated in the General Plan's Safety Element, as part of the City's preparedness initiatives, an Evacuation Analysis has been prepared that identifies the routes used for evacuation purposes. As identified in the General Plan's Safety Element, the nearest Disaster Routes to the Project Site are Firestone Boulevard and Atlantic Avenue.[64] The Project involves the ongoing operation of a tow yard on an industrial zoned parcel, a use that would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, as the Project does not propose any changes to Firestone Boulevard or Atlantic Avenue. Neither construction nor operation of the Project would require the development of additional streets or introduce new features that would interfere with or obstruct an adopted emergency response plan. Additionally, as discussed further in **Checklist Question 17**, operation of the Project would not result in a significant increase in daily trips to the site and the Project Site fronts Rayo Avenue, which has sufficient capacity to provide access to and from the Project Site. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. A significant impact may occur if a project is located in proximity to wildland areas and poses a potential fire hazard, which could expose persons or structures, either directly or indirectly, in the area in the event of a fire.

The Project Site is not located within or near a State Responsibility Area.[65] In addition, the Project Site is located in a highly urbanized area of the City and does not include wildlands or high fire hazard terrain or vegetation. Furthermore, the Project would be developed in accordance with SGMC and LACFD requirements pertaining to fire safety. As detailed in **Checklist Question 20**, the Project would not exacerbate or expose people or structures to wildfire risks. **Therefore, no impact would occur, and no mitigation measures would be required**.

63 Airport Land Use Commission, Airport Influence Area for Los Angeles International Airport, May 13, 2003.

64 South Gate General Plan 2035, Safety Element, March 13, 2018. Figure SE-2.

65 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.

Mitigation Measures

MM-HAZ-1: Prior to commencement of any on-site grading, a Focused Soil Management Plan ("SMP") shall be approved in accordance with the requirements of DTSC, U.S. EPA, SCAQMD, and LARWCQB. The SMP shall establish procedures for managing soil disturbance activities associated with the proposed site improvements at the Project Site based on existing soil data and shall define protocols for addressing any previously unknown soil impacts potentially encountered during construction. The SMP shall provide guidance during soil disturbance activities in areas of known contamination and to outline contingency measures to be taken if visual or other indications of previously unidentified hazardous material or waste impacts and/or subsurface features (e.g., underground storage tanks [USTs], sumps, clarifiers, septic tanks) are encountered during site activities. The SMP shall also address soil management, movement, temporary storage, and disposal associated with site improvement activities associated with the Project.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
10. HYDROLOGY AND WATER QUALITY. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☒	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on- or off-site?	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☐	☒
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at federal, State, regional, and local levels with regard to hydrology and water quality and include:

- Clean Water Act/National Pollutant Discharge Elimination System Requirements
- National Flood Insurance Program
- National Pollutant Discharge Elimination System Construction General Permit
- National Pollutant Discharge Elimination System Groundwater Permit
- National Pollutant Discharge Elimination System Municipal Permit
- Porter-Cologne Water Quality Control Act

- 2025 Urban Water Management Plan
- Los Angeles Regional Water Quality Control Board Water Quality Control Plan
- South Gate Municipal Code

Environmental Setting

Groundwater

The City is located within the Central Basin. The Central Basin is divided into four sections—the Los Angeles Forebay, the Montebello Forebay, the Whittier Area, and the Pressure Area. The Project Site is located within the Los Angeles Forebay area, which represents an area of unconfined aquifers that allow percolation of surface water down into the deeper production aquifers to replenish the rest of the basin. Groundwater in the Central Basin is recharged via surface spreading at the Whittier Narrows Dam, Montebello Forebay Spreading Grounds (MFSG), infiltration in the unlined portions of the Lower San Gabriel River, and via direct injection at the Alamitos Barrier Project (ABP). Natural recharge to the Central Basin includes surface infiltration of precipitation and applied water (such as landscape irrigation), subsurface inflow from the surrounding mountains (referred to as mountain-front recharge), through the Los Angeles and Whittier Narrows and along the boundary with the Orange County Basin, and through stormwater percolation at the spreading grounds and unlined portions of rivers.[66]

Surface Water

The City is located in the coastal plain at the confluence of the Los Angeles River and Rio Hondo. The topography of South Gate is dominated by the Los Angeles River and Rio Hondo. The Los Angeles River divides the City into eastern and western sections. The Project Site is located in the western section. Land west of the Los Angeles River gently slopes to the river. Land east of the river slopes toward the Los Angeles River or Rio Hondo.[67] There are no records or maps of any wetlands, potentially jurisdictional waterbodies, riparian resources, or significant drainage courses within or adjoining the Project area.[68]

Flooding

The Federal Emergency Management Agency (FEMA) is mandated by the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973 to evaluate flood hazards and provide Flood Insurance Rate Maps (FIRMs) for local and regional planners to promote sound land use and floodplain development. Further, the Flood Disaster Protection Act requires owners of all structures in identified Special Flood Hazard Areas to purchase and maintain flood insurance as a condition of receiving Federal or federally related financial assistance, such as mortgage loans from federally insured lending institutions. The National Flood Insurance Reform Act of 1994 further strengthened the National Flood Insurance Program (NFIP) by providing a grant program for State and community flood mitigation projects. The act also established a system (Community Rating System - CRS) for crediting communities that implement measures to protect the natural and beneficial functions of their floodplains, as well as managing the erosion hazard.

66 City of South Gate Urban Water Management Plan, June 2021.
67 City of South Gate Urban Water Management Plan, June 2021.
68 U.S. Fish & Wildlife Service, Wetlands Mapper, https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper, accessed June 2026.

According to the FEMA South Gate is located within Zone X.[69] Zone X is areas of moderate or minimal hazard from the principal source of flood in the area.

Checklist Discussion

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact with Mitigation. A significant impact may occur if a project discharges water which does not meet the quality standards of agencies which regulate surface water quality and water discharge into storm water drainage systems. Significant impacts may also occur if a project does not comply with all applicable regulations with regard to surface water quality as governed by the SWRCB. These regulations include compliance with the Standard Urban Storm Water Mitigation Plan (SUSMP) requirements to reduce potential water quality impacts.

Surface Water Quality

A project would normally have a significant impact on surface water quality if discharges associated with a project would create pollution, contamination, or nuisance as defined in Section 13050 of the California Water Code (CWC) or that cause regulatory standards to be violated, as defined in the applicable NPDES stormwater permit or Water Quality Control Plan for the receiving water body. For the purpose of this issue, a significant impact may occur if a project would discharge water which does not meet the quality standards of agencies which regulate surface water quality and water discharge into stormwater drainage systems. Significant impacts would also occur if a project does not comply with all applicable regulations with regard to surface water quality as governed by the State Water Resources Control Board (SWRCB). These regulations include compliance with the SUSMP requirements to reduce potential water quality impacts.

Construction

Construction activities associated with the Project have the potential to degrade water quality through the exposure of surface runoff (primarily rainfall) to exposed soils, dust, and other debris, as well as from runoff from construction equipment. Construction activities would also have the potential to degrade water quality should contaminated soils be exposed to water including rainfall, which could carry contamination to uncontaminated portions of the site, off-site, or to the water drainage system. Construction associated with the Project would be subject to the requirements of Los Angeles Regional Water Quality Control Board (LARWQCB) Order No. R4-2012-0175-A01, NPDES No. CAS004001, effective December 28, 2012, Waste Discharge Requirements for Municipal Separate Storm Sewer System (MS4) Discharges within the Coastal Watersheds of Los Angeles County (the "Los Angeles County MS4 Permit"), which controls the quality of runoff entering municipal storm drains in Los Angeles County. Section VI.D.8 of the Los Angeles County MS4 Permit, Development Construction Program, requires permittees (which include the City of South Gate) to enforce implementation of Best Management Practices (BMPs), including, but not limited to, approval of an Erosion and Sediment Control Plan (ESCP) for all construction

69 Federal Emergency Management Agency, Flood Insurance Rate Map, City of South Gate, California, FEMA Map Number 06037C1810F, effective September 26, 2008.

activities within their jurisdiction.[70] ESCPs are required to include the elements of a Stormwater Pollution Prevention Plan. Accordingly, the construction contractor for the Project would be required to implement BMPs that would meet or exceed local, State, and federal mandated guidelines for stormwater treatment to control erosion and to protect the quality of surface water runoff during the construction period. BMPs utilized could include, without limitation: disposing of waste in accordance with all applicable laws and regulations; cleaning up leaks, drips, and spills immediately; conducting street sweeping during construction activities; limiting the amount of soil exposed at any given time; covering trucks; keeping construction equipment in good working order; and installing sediment filters during construction activities. As described above, the Project is also required to implement mitigation measure **MM-HAZ-1,** which requires preparation and implementation of a SMP in accordance with the requirements of DTSC, U.S. EPA, SCAQMD, and LARWCQB. The SMP shall establish procedures for managing soil disturbance activities associated with the proposed site improvements at the Project Site based on existing soil data and shall define protocols for addressing any previously unknown soil impacts potentially encountered during construction. The SMP shall provide guidance during soil disturbance activities in areas of known contamination and to outline contingency measures to be taken if visual or other indications of previously unidentified hazardous material or waste impacts and/or subsurface features (e.g., underground storage tanks [USTs], sumps, clarifiers, septic tanks) are encountered during site activities. The SMP shall also address soil management, movement, temporary storage, and disposal associated with site improvement activities associated with the Project. **With implementation of MM HAZ-1, construction impacts would be less than significant.**

Operation

The Project would maintain a similar drainage pattern to the existing site conditions. The Project would also be subject to the BMP requirements of the SUSMP adopted by LARWQCB. As a permittee, the City is responsible for implementing the requirements of the County-wide SUSMP within its boundaries. In compliance with these regulatory requirements, a Project-specific SUSMP would be implemented during the operation of the Project. In compliance with the Los Angeles County MS4 Permit and SUSMP requirements, the Project would be required to retain, treat and/or filter stormwater runoff through biofiltration before it enters the City stormwater drain system, which has previously described would occur on-site. The system incorporated into the Project would follow design requirements set forth in the MS4 permit and must be approved by the City. Adherence to the requirements of the MS4 Permit and SUSMP would ensure that potential impacts associated with water quality would be less than significant. With appropriate Project design and compliance with the applicable federal, State, local regulations, and permit provisions, impacts of the Project related to stormwater runoff quality would be less than significant. **Therefore, operational impacts would be less than significant, and no mitigation measures would be required.**

70 California Regional Water Quality Control Board – Los Angeles Region, MS4 Discharges within the Coastal Watersheds of Los Angeles County Except those Discharges Originating from the City of Long Beach MS4, Order No. R4-2012-0175, as amended by Order WQ 2015-0075, NPDES No. CAS004001, page 116 et seq.

Groundwater Quality

Construction

The Project would include would result in an export of existing soil material. As discussed in response to **Checklist Question 9**, **Hazards and Hazardous Materials**, the Project Site's former industrial uses have resulted in subsurface soil, soil gas, and groundwater contamination which is being actively remediated as part of the listed Superfund Site, administered by the U.S. EPA and DTSC. Therefore, based on the existing site conditions, the Project is required to incorporate mitigation measure **MM-HAZ-1** to implement a SMP in accordance with the requirements of DTSC, U.S. EPA, SCAQMD, and LARWCQB. Any contaminated soils found would be captured within that volume of excavated material, properly removed from the Project Site, and remediated at an approved disposal facility in accordance with regulatory requirements. During on-site grading and building construction, hazardous materials, such as fuels, paints, solvents, and concrete additives, could be used and would therefore require proper management and, in some cases, disposal. The management of any resultant hazardous wastes could increase the opportunity for hazardous materials releases into groundwater. Compliance with all applicable federal, State, and local requirements concerning the handling, storage and disposal of hazardous waste, would reduce the potential for the construction of the Project to release contaminants into the groundwater. Therefore, through implementation of mitigation measure **MM-HAZ-1**, the Project would not result in any substantial increase in groundwater contamination through hazardous materials releases. **Therefore, impacts would be less than significant with implementation of mitigation measure MM-HAZ-1.**

Operation

The Project does not include the installation or operation of water wells. The Project does not include the development of any extraction or recharge system. The Project is not located in the vicinity of the coast, or in an area of known groundwater contamination or seawater intrusion, a municipal supply well, or spreading ground facility. Generally, operational activities which could affect groundwater quality include spills of hazardous materials and leaking underground storage tanks (USTs). No USTs are currently operated or would be operated by the Project. Moreover, the Project would be required to comply with the applicable regulatory requirements to further ensure that the minimal amount of typical commercial and landscaping hazardous materials associated with operation of the Project are properly treated and disposed of at licensed resource recovery facilities or hazardous waste landfills. In addition, the Project would comply with all applicable regulations regarding the handling and potentially required cleanup of hazardous materials as defined in the California Code of Regulations, Title 22, Division 4, Chapter 15 and the Safe Drinking Water Act. The Project is not anticipated to result in releases or spills of contaminants that could reach a groundwater recharge area or spreading ground or otherwise reach groundwater through percolation because, as discussed further below, the Project Site would not be a significant source of groundwater recharge. The Project does not involve drilling to or through a clean or contaminated aquifer. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less Than Significant Impact. A significant impact may occur if a project includes deep excavations resulting in the potential to interfere with groundwater movement or included withdrawal of groundwater or paving of existing permeable surfaces important to groundwater recharge.

Construction

Construction activities associated with the Project are limited to grading and construction of a 560-square-foot office. The Project Site does not contain any groundwater wells and thus Project construction would not be anticipated to affect any existing wells. The Project does not include the construction of water supply wells. Therefore, construction of the Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the Basin.

Operation

Operation of the Project would use a municipal water supply and does not propose the use of any wells or other means of extracting groundwater. The City's water supply sources consist of groundwater produced from the Central Groundwater Basin, recycled water, and imported water.[71] In addition, as the Project Site has been developed since the 1940s and provides little groundwater recharge potential, operation of the Project would not substantially impact the amount of groundwater recharge occurring on-site. As such, through adherence with regulatory compliance measures, operation of the Project would not decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin.

Conclusion

Overall, construction and operation of the Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin. **Therefore, impacts would be less than significant.**

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i. Result in substantial erosion or siltation on- or off-site;

Less Than Significant Impact. A significant impact may occur if a project results in a substantial alteration of drainage patterns that would result in a substantial increase in erosion or siltation during construction or operation of the project.

Construction

Construction associated with the Project would be subject to the requirements of LARWQCB Order No. R4-2012-0175, NPDES No. CAS004001, effective December 28, 2012, Waste Discharge Requirements for Municipal Separate Storm Sewer System (MS4) Discharges within the Coastal Watersheds of Los Angeles County (Los Angeles County MS4 Permit); which controls the quality of runoff entering municipal storm drains in Los Angeles County. Section VI.D.8 of the Los Angeles County MS4 Permit, Development Construction Program, requires permittees (which include the City) to enforce implementation of BMPs,

71 City of South Gate, 2025 Urban Water Management Plan and Water Shortage Contingency Plan, May 2026.

including, but not limited to, approval of an ESCP for all construction activities within their jurisdiction.[72] ESCPs are required to include the elements of a Stormwater Pollution Prevention Program (SWPPP). Accordingly, the construction contractor for the Project would be required to implement BMPs that would meet or exceed local, State, and federal mandated guidelines for stormwater treatment to control erosion and to protect the quality of surface water runoff during the construction period. BMPs utilized could include, without limitation: disposing of waste in accordance with all applicable laws and regulations; cleaning up leaks, drips, and spills immediately; conducting street sweeping during construction activities; limiting the amount of soil exposed at any given time; covering trucks; keeping construction equipment in good working order; and installing sediment filters during construction activities. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

Operation

As described above, the Project would maintain a similar drainage pattern to the existing site conditions after development of the Project. Thus, the Project would not alter the existing drainage pattern of the Project Site or the surrounding area such that substantial erosion or siltation on-site or off-site would occur. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

Less Than Significant Impact. A significant impact may occur if a project results in a substantial alteration of drainage patterns that would result in a substantial increase in erosion or siltation during construction or operation of the project.

Construction

Construction activities for the Project would involve grading, paving, and construction of a new office building. These activities have the potential to temporarily alter existing drainage patterns on the Project Site by exposing the underlying soils, modifying flow direction, and making the Project Site temporarily more permeable. As discussed above in response to **Checklist Question 10.ci, Hydrology and Water Quality**, the Project would implement a SWPPP that specifies BMPs and erosion control measures to be used during construction to manage runoff flows. These BMPs are designed to contain stormwater or construction watering on the Project Site such that runoff does not impact off-site drainage facilities or receiving waters. Thus, with preparation of a SWPPP and implementation of BMPs, as well as compliance with applicable City grading permit regulations, construction activities for the Project would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site. **As such, construction-related impacts would be less than significant, and no mitigation measures would be required**.

Operation

As described above, the Project would maintain a similar drainage pattern to the existing site conditions after development of the Project. As discussed further below, the Project is not in a flood zone. Therefore,

72 California Regional Water Quality Control Board – Los Angeles Region, MS4 Discharges within the Coastal Watersheds of Los Angeles County Except those Discharges Originating from the City of Long Beach MS4, Order No. R4-2012-0175, as amended by Order WQ 2015-0075, NPDES No. CAS004001, page 116 et seq.

the Project would not cause flooding during a 50-year storm event on the Project Site. The stormwater infrastructure located in Rayo Avenue has sufficient capacity to accept the stormwater runoff from the existing conditions and since there would be no anticipated increase in flow rates, infrastructure would have sufficient capacity to handle post-Project flows. Therefore, the Project would not substantially alter the existing drainage pattern of the Project Site or surrounding area such that on-site or off-site flooding would occur. **Operational impacts would be less than significant, and no mitigation measures would be required**.

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or;

Less Than Significant Impact. A significant impact may occur if a project would increase the volume of storm water runoff to a level which exceeded the capacity of the storm drain system serving a Project Site. A project-related significant adverse effect may also occur if a project would substantially increase the probability that polluted runoff would reach the storm drain system.

Construction

As previously discussed, the Project would not increase the amount of surface runoff from the Project Site during construction. The Project would prepare an ESCP and include BMPs for the control of runoff and water quality impacts during construction in accordance with the MS4 Permit. Therefore, stormwater runoff from the Project Site would not exceed the capacity of the existing or planned stormwater drainage systems during construction. However, should the City determine improvements to the stormwater drainage system are necessary during the normal permit review process, the Applicant would be responsible for the improvements, and such improvements would be conducted as part of the Project either on-site or off-site within the right-of-way, and as such, any related construction activities would be temporary and of short duration, and would not result in any significant environmental impacts given the disturbed nature of the right-of-way. Furthermore, as the Project would manage, capture, and treat runoff during construction, as required by regulatory compliance, implementation of the Project would represent an improvement in water quality as compared to the existing condition where runoff sheet flows untreated to the drainage system.

Operation

As described above, the Project would maintain a similar drainage pattern to the existing site conditions after development of the Project. Under existing conditions, surface runoff flows across the site and discharges into Rayo Avenue. There are no known storm drain facilities on-site. All existing flow patterns would be maintained post development. Therefore, all flow rates characteristics would be maintained. Thus, the Project would not substantially create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff during construction or operation**. Impacts related to flooding would be less than significant and no mitigation measures would be required.**

iv. Impede or redirect flood flows?

No Impact. A significant impact may occur if a project results in a substantial alteration of flood flows.

According to the FEMA Flood Insurance Rate Map, the Project Site is within Zone X, which is a designation for areas determined to have a minimal flood hazard.[73] No streams or rivers that may overflow or breech a levee are located on or near the Project Site and the Project Site is not located within any high-risk coastal areas. In addition, the Project Site is not located within a tsunami hazard area.[74] As such, the Project would not be expected to encounter flood flows that may be impeded or redirected. **Therefore, no impacts would occur, and no mitigation measures would be required**.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. A significant impact may occur if a Project Site is sufficiently close to the ocean or other water body to be potentially at risk of the effects of seismically-induced tidal phenomena (seiche and tsunami) or if the Project Site is located adjacent to a hillside area with soil characteristics that would indicate potential susceptibility to mudslides or mudflows.

As discussed in **Checklist Question 10(civ), Hydrology and Water Quality**, the Project Site is within Zone X, which is a designation for areas determined to have a minimal flood hazard.[75] Additionally, the potential for the Project Site to be adversely impacted by earthquake-induced tsunamis is considered negligible because the Site is located approximately 15 miles inland from the Pacific Ocean shore. The potential for the Project Site to be adversely impacted by earthquake-induced seiches is considered negligible due to the lack of any significant enclosed bodies of water located in the vicinity of the Project Site. Furthermore, in 2017, the California Legislature passed a law requiring all State jurisdictional dams, except low hazard dams, to develop inundation maps and emergency action plans. The Division of Safety of Dams approves inundation maps, and the California Governor's Office of Emergency Services approves emergency action plans. Based on review of the California Department of Water Resources Dam Breach Inundation Maps and County of Los Angeles General Plan, the Project Site is not located within a dam inundation boundary.[76] As such, the Project is not in a flood hazard, tsunami, or seiche zone and there is no potential for risk of the release of pollutants due to Project inundation. **Therefore, no impacts would occur, and no mitigation measures would be required**.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less Than Significant Impact. A significant water quality impact may occur if a project is not consistent with water quality control plans or sustainable groundwater management plans.

Water quality control plans applicable to the Project include the Los Angeles Regional Water Quality Control Board's (LARWQCB) *Water Quality Control Plan* and the *Los Angeles Region: Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan). Adopted by LARWQCB, the Basin Plan designates beneficial uses for surface and groundwaters, sets narrative and numerical objectives that

73 Federal Emergency Management Agency, Flood Insurance Rate Map, City of South Gate, California, FEMA Map Number 06037C1810F, effective September 26, 2008.

74 California Department of Conservation, Los Angeles County Tsunami Hazard Areas, https://www.conservation.ca.gov/cgs/tsunami/maps/los-angeles, accessed July 2026.

75 Federal Emergency Management Agency, Flood Insurance Rate Map, City of South Gate, California, FEMA Map Number 06037C1810F, effective September 26, 2008.

76 California Division of Safety of Dams, California Dam Breach Inundation Maps, https://fmds.water.ca.gov/maps/damim/, accessed July 2026.

must be attained or maintained to protect the designated beneficial uses and conform to the State's anti-degradation policy, and describes implementation programs to protect all waters in the Los Angeles Region. In addition, the Basin Plan incorporates (by reference) all applicable State and Regional Board plans and policies and other pertinent water quality policies and regulations.

On September 16, 2014, the State of California signed into law the Sustainable Groundwater Management Act (SGMA). Comprised of three bills, AB 1739, SB 1168, and SB 1319, the SGMA provides a framework for long-term sustainable groundwater management across California and requires governments and water agencies of high and medium priority basins to halt overdraft and bring groundwater basins into balanced levels of pumping and recharge. Under the roadmap laid out by the legislation, local, and regional authorities in medium and high priority groundwater basins have formed Groundwater Sustainability Agencies (GSAs) that will oversee the preparation and implementation of a local Groundwater Sustainability Plan (GSP). Local stakeholders have until 2022 (in critically over drafted basins until 2020) to develop, prepare, and begin implementation of Groundwater Sustainability Plans. GSAs will have until 2042 (2040 in critically over drafted basins) to achieve groundwater sustainability.

The Project Site overlies the Central Basin. Operation of the Project would use a municipal water supply and does not propose the use of any wells or other means of extracting groundwater. Additionally, the Project would not have the potential to impact the amount of groundwater recharge as the Project Site does not currently provide recharge for the groundwater basin.

Accordingly, based on the above, the Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
11. LAND USE AND PLANNING. Would the project**:**				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

Regulatory Setting

Regulations exist at State and local levels with regard to land use and include:

- SCAG'S 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
- South Gate General Plan 2035
- South Gate Comprehensive Zoning Code (SGMC Title 11)

Environmental Setting

The City is comprised of a total land area of 4,704 acres, or 7.35 square miles. The City, located in the central portion of Los Angeles County, is bordered by the Cities of Downey to the east; Bell Gardens, Cudahy, and Huntington Park to the north; Walnut Park and Los Angeles to the west; and Paramount and Lynwood to the south.

Checklist Discussion

a) Physically divide an established community?

No Impact. A significant impact may occur if a project were sufficiently large enough or otherwise configured in such a way as to create a physical barrier within an established community (a typical example would be a project which involved a continuous right-of-way such as a roadway which would divide a community and impede access between parts of the community).

The Project Site is situated within an established urban area in the City of South Gate. The Project Site is approximately 99,856 square feet (2.29 acres) and is comprised of one irregular-shaped parcel having primary frontage along Rayo Avenue. Surrounding properties include commercial and industrial uses to the north, east and west, and a Los Angeles Unified School District (LAUSD) facility to the south. Specifically, a surface level parking lot is developed directly to the north and west of the Project Site and is intended for an Amazon parcel delivery vehicle operation. A metal recycling facility (ELG Metals West Coast Inc.) is located to the east across Rayo Avenue. LAUSD operates a maintenance yard, administrative office, and adult school to the south.

The Project Site is currently partially paved, fully fenced, and developed with one building containing approximately 12,550 square feet, located on the southern portion of the site. The Project Site does not

include any roadways or access to other streets or properties. The Project Site is surrounded by other industrial and commercial development and there are no existing residences on the Site, nor a residential use that would be physically separated or otherwise disrupted by the Project.

The Project consists of changing the zoning designation of the rear portion of the property from IF (Industrial Flex) to M3 (Heavy Manufacturing), to match the current M3 zoning designation of the front portion of the property to facilitate the expansion of the existing towing business operations that occur on the front (easterly) portion of the Project Site to occupy the entire site. The Project includes installation of a new vehicle storage site area (paving and striping), new site lighting, and construction of an approximately 560-square-foot office building. The Project would not disrupt, divide, or isolate an existing neighborhood or community directly or indirectly, as all proposed improvements would occur within the limits of the Project Site. **Therefore, no impact would occur, and no mitigation measures would be required**.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. A significant impact may occur if a project is inconsistent with the General Plan or zoning designations currently applicable to the Project Site and would cause adverse environmental effects, which the General Plan and zoning ordinance are designed to avoid or mitigate.

Consistency with Applicable Land Use Policies and Regulations

- SCAG's 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
- South Gate General Plan 2035, Community Design Element
- South Gate Comprehensive Zoning Code (SGMC Title 11)

An overview of each of these plans and regulations is provided below. However, not every policy or goal of these plans is intended to mitigate or avoid environmental impacts. Where a policy is not intended to mitigate or avoid an environmental impact, consistency with that policy may not be relevant to an environmental impact analysis.

Southern California Association of Governments/Regional Transportation Plan

On September 3, 2020, the SCAG Regional Council adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), also known as Connect SoCal. The 2020-2045 RTP/SCS presents a long-term transportation vision through the year 2045 for the six-county region of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. The 2020-2045 RTP/SCS contains baseline socioeconomic projections that are used as the basis for SCAG's transportation planning, and the provision of services by other regional agencies. SCAG's overarching strategy for achieving its goals is integrating land use and transportation. SCAG policies are directed towards the development of regional land use patterns that contribute to reductions in vehicle miles and improvements to the transportation system. Rooted in past RTP/SCS plans, Connect SoCal's "Core Vision" centers on maintaining and better managing the region's transportation network, expanding mobility choices by co-locating housing, jobs, and transit, and increasing investment in transit and complete streets. The plans "Key Connections" augment the "Core Vision" to address challenges related to the intensification of core planning strategies and increasingly aggressive greenhouse gas reduction goals, and include but are not limited to, Housing Supportive Infrastructure, Go Zones, and Shared Mobility. Connect SoCal intends to create benefits for

the SCAG region by achieving regional goals for sustainability, transportation equity, improved public health and safety, and enhancement of the regions' overall quality of life. These benefits include but are not limited to a five percent reduction in vehicle miles traveled (VMT) per capita and vehicle hours traveled by nine percent, increase in work-related transit trips by two percent, create more than 264,500 new jobs, reduce greenfield development by 29 percent, and, building off of the 2019-2040 RTP/SCS, increase the share of new regional household growth occurring in High Quality Transit Area's by six percent and the share of new job growth in High Quality Transit Areas by 15 percent.

Regionally, the Project Site is located within the planning area of the Southern California Association of Governments (SCAG), the federally designated metropolitan planning organization. SCAG is responsible for reviewing regionally significant local plans, projects, and programs for consistency with SCAG's adopted regional plans. As the Project proposes a Zone Change to change the zone and continued and expanded use of the site as a tow yard, the Project does not meet the criteria for being regionally significant pursuant to the CEQA Guidelines, Section 15206(b)(2); therefore, no further analysis of SCAG consistency is required.

South Gate General Plan

The South Gate General Plan 2035 (General Plan) guides land use throughout the City. The General Plan sets forth goals, objectives, and programs to guide day-to-day land use policies and to meet the existing and future needs and desires of the community, while integrating a range of State-mandated elements including, Community Design Element, Mobility Element, Economic Element, Green City Element, Healthy Community Element, Public Facilities and Services Element, and Noise Element. The Housing Element and Safety Element are also part of the General Plan but are printed as separate documents.

The Community Design Element regulates land use and development in the City, which divides the City into identifiable "Neighborhoods," "Districts," and "Corridors." Every parcel in the City is located in one of many neighborhoods, districts and corridors. The Project Site is located in the Rayo Industrial District, Sub-Area 2. As described in the Community Design Element, districts are areas of higher intensity development located throughout the City. They often consist of streets or areas emphasizing specific types of activities or characteristics including districts that are oriented around residents, commerce, and/or as job centers. The design and desired land use mix of Districts varies from area to area.[77]

The Rayo Industrial District is located south of the Gateway District and between Atlantic Avenue and the Los Angeles River. The area currently contains a variety of industrial, warehouse and distribution uses. The parcels are relatively large and there is frontage on Atlantic Avenue and the Los Angeles River. Access to the Los Angeles River multi-use trail is also through this District. The District is divided into 2 sub-areas. The Project Site is within sub-area 2, which is the area generally between Rayo Avenue and Atlantic Boulevard. The General Plan envisions that the Rayo Industrial District should remain a job-producing area for the City of South Gate.[78]

Table II-1, *Project Consistency with the Community Design Element,* presents an analysis between the applicable goals, objectives, and policies that are applicable to industrial use.

77 South Gate General Plan 2035, Community Design Element, May 29, 2009.
78 South Gate General Plan 2035, Community Design Element, May 29, 2009.

Table II-1
Project Consistency with the Community Design Element

Goal/Policy[a]	Project Consistency
Policy P.1: The existing logistics, warehouse and distribution uses will be allowed to continue in their current operations and make minor property improvements, but major expansion should not be allowed.	**No Conflict:** The Project does not include warehouse or distribution uses and therefore does not conflict with this policy.
Policy P.2: New job-producing uses should help to diversify the City's tax and employment base.	**No Conflict:** Although development of the Project is not expected to significantly expand the City's employment base, the increase in tow yard area would increase the Project Site operator's capacity for storage and would thus grow the City's tax base.
Policy P.3: The Boulevard Medium-High and Single Use Retail Place Types are allowed and encouraged along Atlantic Avenue. These uses are not desired in other areas of the District.	**No Conflict:** The Project Site is not located on and does not front along Atlantic Avenue. The Project would not develop retail uses and would not interfere with implementation of this policy.
Policy P.4: New uses adjacent to the Los Angeles River should be designed and located to capitalize on the proximity and access to the river.	**No Conflict:** The Project Site is not adjacent to the Los Angeles River and therefore does not conflict with this policy.
Policy P.5: New buildings should provide enhanced public connection to the regional trail system along the Los Angeles River.	**No Conflict:** The Project Site is not adjacent to the Los Angeles River and therefore does not conflict with this policy.

[a] *South Gate General Plan 2035, Community Design Element, May 29, 2009.*
Source (table): EcoTierra Consulting, 2026.

South Gate Comprehensive Zoning Code

All on-site development activity is subject to Title 11 (Comprehensive Zoning Code) of the SGMC. The Comprehensive Zoning Code includes development standards for the various districts in the City. The Project Site currently has two zones: IF (Industrial Flex) and M3 (Heavy Manufacturing). In 2013, the property lot lines were adjusted to create the current lot configuration consisting of two Assessor parcel numbers. Although it consists of two parcel numbers, the Project Site is identified as one legal parcel. At the time, the entire property's zoning designation was M3. Subsequently, the Zoning Code was comprehensively updated in 2015, which resulted in amendments to the Zoning Map. As part of the update, an IF zoning district was introduced; however, the zoning map changes were not aligned with the property lines of the site. As a result, the property was divided into two zones: the landlocked westerly portion designated IF, and the easterly portion zoned M3.

The M3 Zone is intended to implement the manufacturing/distribution place type designation of the General Plan. This zone includes uses such as industrial, manufacturing, large-scale warehouse, distribution, or logistics facilities.[79] The IF Zone is intended to allow existing businesses within the overlay to operate and allows additional manufacturing uses within the overlay; implement the general plan mobility element policies to utilize rail, which would reduce truck traffic along Firestone Boulevard; and provide for standards to ensure the vision of the general plan is implemented and the proper transition

79 SGMC Section 11.24.060.

between existing adjacent land uses occur.[80] The Project Site's IF zoned parcel is not located along Atlantic Avenue and does not front any street; as such, the designation of this portion of the property as IF does not meet the intention of the IF zone designation to serve as a transitional district between the M3 manufacturing zone and other land use designations and zones. Furthermore, the proposed tow yard use, which is permitted on the M3 portion of the site, would be permitted on the entire site after the zone change. Therefore, the Project's proposed amendment to the citywide Zoning Map of Title 11 (Zoning) of the SGMC to change the zoning designation of the rear portion of the property from IF to M3, to match the current M3 zoning designation of the front portion of the property use would not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. **As such, impacts would be less than significant, and no mitigation measures are required**.

Mitigation Measures

None required.

80 SGMC Section 11.27.010.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
12. MINERAL RESOURCES. Would the project:				
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the State?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Regulatory Setting

Regulations and responsible agencies exist at the State level with regard to mineral resources and include:

- Surface Mining and Reclamation Act of 1975
- Division of Oil, Gas, and Geothermal Resources
- Division of Mines and Geology

Environmental Setting

The Project Site is developed with an industrial use; the Project Site has not been historically used for mineral extraction, and there are no mineral extraction activities in the area.[81]

Checklist Discussion

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State?

***No Impact*.** A significant impact may occur if a project is located in an area used or available for extraction of a regionally-important mineral resource and the project converted an existing or potential future regionally-important mineral extraction use to another reuse or if the project affected access to a site used or was potentially available for regionally-important mineral resource extraction.

No portion of the Project Site is delineated as a mineral resource or mineral resource recovery site. There are no active mines or mineral resource extraction occurring on the Site or Project vicinity.[82] Additionally, the Project Site is not located within the boundaries of a major oil drilling area or within a State-designated

81 California Division of Mine Reclamation, California Department of Conservation. https://maps.conservation.ca.gov/mol/index.html, accessed June 2026.
82 California Division of Mine Reclamation, California Department of Conservation. https://maps.conservation.ca.gov/mol/index.html, accessed June 2026.

oil field.[83] **Due to lack of resources available on the Project Site and the urban nature of the City, no impact would occur and no mitigation measures would be required**.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

***No Impact*.** A significant impact may occur if a project is located in an area used or available for extraction of a locally-important mineral resource extraction and the project converted an existing or potential future locally-important mineral extraction use to another use or if the project affected access to a site used or potentially available for locally-important mineral resource extraction.

As discussed above under responses to **Checklist Question 12(a)**, the Project Site is not within a major drilling area or State-designated oil field. The Project would not affect any extraction activities and there would be no impact on existing or future regionally important mineral extraction sites. Therefore, development of the Project would not result in the loss of availability of a mineral resource that would be of value to the residents of the State or a locally-important mineral resource, or mineral resource recovery site, as delineated on a local general plan, specific plan, or land use plan. **Therefore, no impact would occur, and no mitigation measures would be required**.

Mitigation Measures

None required.

83 California Department of Conservation, Division of Oil, Gas & Geothermal Resources, Well Finder, https://maps.conservation.ca.gov/doggr/wellfinder/, accessed July 2026.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
13. NOISE. Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Regulatory Setting

Various private and public agencies have established noise guidelines and standards to protect citizens from potential hearing damage and other adverse physiological and social effects associated with noise. Federal, State, regional, and local guidelines include the following:

- Federal Transit Administration and Federal Railroad Administration Standards
- Federal Aviation Administration Standards
- California Noise Control Act
- California Code of Regulations
- South Gate General Plan 2035
- South Gate Municipal Code

Environmental Setting

Noise-Sensitive Receptors

The City's General Plan Noise Element considers residential uses, schools, hospitals, churches, outdoor spectator sports facilities, performing arts facilities, hotels, and motels to be "noise-sensitive receptors." Uses surrounding the Project Site consist of commercial and industrial uses to the north, east and west, and a Los Angeles Unified School District (LAUSD) facility to the south. Specifically, a surface level parking lot is developed directly to the north and west of the Project Site and is intended for an Amazon parcel delivery vehicle operation. A metal recycling facility (ELG Metals West Coast Inc.) is located to the east across Rayo Avenue. LAUSD operates a maintenance yard, administrative office, and adult school to the south. The closest sensitive receptor is the multi-family apartment building located west of the Project Site across Atlantic Avenue at 9301 Atlantic Avenue, approximately 437 feet west of the Project Site.

Regulatory Setting

Federal

Currently, no federal noise standards regulate environmental noise associated with temporary construction activities or the long-term operations of development projects.

Federal Transit Administration (FTA)

For the evaluation of construction-related vibration impacts, Federal Transit Administration (FTA) guidelines and recommendations are used given the absence of applicable federal, County, or City standards specific to temporary construction activities and their potential to damage structures.

Though not regulatory in nature, the FTA has established vibration impact criteria for buildings and other structures, as building and structural damages are generally the foremost concern when evaluating the impacts of construction-related vibrations.

State

2017 General Plan Guidelines

The State of California's 2017 General Plan Guidelines propose county and city standards for acceptable exterior noise levels based on land use. These standards are incorporated into land use planning processes to prevent or reduce noise and land use incompatibilities. The State's suggested compatibility considerations between various land uses and exterior noise levels are not regulatory in nature, but are recommendations intended to aid communities in determining their own noise-acceptability standards.

City of South Gate

General Plan Noise Element

The City of South Gate's General Plan Noise Element reaffirms the City's Municipal Code standards, which are discussed in the following section. However, Goal N1, Policy P.1, adds that construction activities are prohibited between the hours of 7:00 P.M. to 8:00 A.M. Monday through Saturday, and on Sundays and Federal holidays.

City of South Gate Municipal Code

The City of South Gate Municipal Code (the "SGMC") establishes noise standards for "Noise-Sensitive Areas," residential properties, commercial properties, and industrial properties. The standards range from 45 dBA to 65 dBA, depending on the time of day. The SGMC permits noise increases based on the standards. For example, 5 dBA increases are permitted up to 30 minutes per hour. 20 dBA increases are permitted up to 2 minutes per hour.

Checklist Discussion

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant Impact. A significant impact may occur if the project would generate excess noise that would cause the ambient noise environment at the Project Site to fail to comply with noise level standards set forth in the City of South Gate General Plan Noise Element (Noise Element) or the City of South Gate Municipal Code.

Construction Noise

On-Site Construction Activities

Construction of the Project would generate noise during the estimated eight (8) months of grading, building construction, and other construction phases including paving and finishing.

Grading activities are typically the foremost concern when evaluating a project's construction noise impacts, as demolition and grading activities often require extensive daily use of heavy-duty, diesel-powered earthmoving equipment. Other construction activities, such as vertical construction and interior finishing, would not extensively use heavy-duty off-road construction equipment to the same extent as demolition and grading. Equipment for these phases would primarily consist of handheld tools and other portable equipment that do not generate loud, continuous noise levels like diesel-powered off-road construction vehicles. Any use of diesel-powered off-road construction vehicles during these phases, such as construction forklifts and skid steer loaders, would be intermittent over any given workday. Other construction phases would result in reduced noise impacts compared to the grading phase as the grading phase is expected to be the most intensive phase for the Project. As construction vehicles and equipment are used across the site, noise levels at nearby sensitive receptors would fluctuate. Noise levels would be greater when they work in proximity of sensitive receptors and lower when farther away.

During all construction phases, noise-generating activities would be limited to between the hours of 8:00 A.M. and 7:00 P.M. Monday through Saturday, excluding Federal holidays. As such, construction would comply with the allowable hours established by the City's General Plan Noise Element.

Trucks and other construction-related vehicles would access the Project Site over the course construction. The Project's maximum truck trip generation is expected to be no greater than six (6) truck trips total for soil export. The soil export trucks would access the site from Rayo Avenue, continuing on to Firestone Boulevard and/or Atlantic Avenue. Both of these roadways are major arterial roadways that feature hundreds to thousands of vehicle trips per hour. The addition of a maximum of six truck trips, even if all truck trips occur in one day, would have a negligible effect on its roadside ambient noise levels.

Construction activities at the site would be required to comply with existing noise regulations, and as such the proposed improvements would not generate a substantial temporary or permanent increase in

ambient noise levels in the vicinity of the project in excess of standards established in the local noise ordinance. **Impacts would be less than significant, and no mitigation measures would be required**.

Operational Noise

Regulatory compliance with SGMC noise standards and the Project's location next to a busy roadway would ensure that heating, ventilation, and air conditioning equipment (HVAC) noises have a negligible impact on surrounding ambient noise levels.

The Project would be located along a busy roadway in an industrial area with many truck trips, and there are many other trucking uses in the vicinity of the Project Site. The Project's truck-related noises would have a negligible impact on surrounding ambient noise levels.

Overall, the Project would be located along a busy roadway in a neighborhood with many other industrial land uses with similar noise sources. None of the Project's on-site operational noise sources would be capable of increasing surrounding ambient noise levels by the minimum 3 dBA CNEL increase threshold, which represents a doubling of noise levels. **Impacts would be less than significant, and no mitigation measures would be required**.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. A significant impact may occur if a project were to generate excessive vibration during construction or operation.

Construction of the Project would require the use of earthmoving equipment for site grading. Other equipment would result in lower levels of groundborne vibration, and the Project would not utilize impact or vibratory pile drivers. This potential impact would be temporary and confined to the grading and paving phase of the project, and would not result in vibration sufficient in intensity or duration to impact surrounding buildings. The site improvements associated with the Project would not generate vibration levels that would result in structural damage to existing buildings on or near the Project Site.

The primary sources of vibration from the Project Site during operation would be trucks and passenger vehicles. Such sources are typical of the immediate neighborhood, and the Project would not require a substantial number of additional truck or passenger vehicle trips compared to existing conditions or surrounding uses. As such, operation of the Project would not generate excessive vibration levels. **Therefore, impacts would be less than significant, and no mitigation measures would be required**

c) For a project located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. A significant impact would occur if the project were located in the vicinity of a private airstrip or an airport land use plan and would expose people residing or working in the project area to excessive noise levels.

The Project Site is located approximately 11.5 miles east of the Los Angeles International Airport (1 World Way). The Project Site is not located within the Planning Boundary/Influence Area of the Los Angeles International Airport including within the Airport Safety Zone or Airport Land Use Plan Noise Contour, which establishes the area susceptible to noise levels that would exceed the annoyance threshold for noise (defined as >65 CNEL for commercial airports such as the Los Angeles International Airport).[84] Although the Project Site would potentially be subject to occasional aircraft overflight noise, such occurrences would be intermittent and temporary. In addition, there are no private airstrips in the vicinity of the Project Site. Therefore, the Project would not expose people working in the project area to excessive noise levels associated with airports or airstrips and the project would not exacerbate existing noise conditions related to airports or airstrips. **There would be no impact related to exposure to excessive noise from air traffic-related sources**. **No impact would occur and no mitigation measures would be required.**

Mitigation Measures.

None required.

84 Airport Land Use Commission, Airport Influence Area for Los Angeles International Airport, May 13, 2003.

	Potentially Significant Impact	Less Than Significant Impact with the Incorporated Mitigation	Less Than Significant Impact	No Impact
14. POPULATION AND HOUSING. Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Regulatory Setting

Regulations and plans that exist at State, regional, and local levels related to populations and housing and include:

- Southern California Association of Governments, 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

Environmental Setting

The City occupies 7.24 square miles and has an estimated population of 98,133 and approximately 24,503 housing units.[85]

Checklist Discussion

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less Than Significant Impact. A significant impact may occur if a project were to locate new development such as homes, businesses or infrastructure, with the effect of substantially inducing growth that would otherwise not have occurred as rapidly or in as great a magnitude.

Construction

The Project would involve the installation of a new vehicle storage site area (paving and striping), new site lighting, construction of an approximately 560-square-foot office building, and operation of the Project Site as a tow yard. Project construction could result in increased employment opportunities in the construction industry. However, it is not likely that construction workers would relocate their households as a result of their employment associated with construction of the Project. The construction industry

85 Southern California Association of Governments, Profile of the City of South Gate, May 2019.

differs from other employment sectors in that many construction workers are highly specialized and move from job site to job site as dictated by the demand for their skills, and they remain at a job site for only the timeframe in which their specific skills are needed to complete a particular phase of the construction process. Furthermore, it is likely that the construction workers employed for the construction of the Project would be taken from the labor pool currently residing in the City. Therefore, construction workers on the Project would not represent unplanned population growth, either directly or indirectly. **Therefore, construction impacts would be less than significant, and no mitigation measures are required**.

Operation

The Project would involve the installation of a new vehicle storage site area (paving and striping), new site lighting, construction of an approximately 560-square-foot office building, and operation of the Project Site as a tow yard. The Project would not include residential uses and would, therefore, not generate new residential population on-site. Though the Project includes expansion of the existing tow yard and addition of a new office to the Project Site, the Project is not expected to generate additional employment on-site. Although the expanded tow yard area will provide additional space for towed vehicle storage, this space is not expected to generate substantial indirect employment as the vehicles stored on the Project Site under the expanded Project conditions would be vehicles that would have been towed to another location under the circumstance that the Project Site were not expanded.

Based on the above, the Project would not induce substantial unplanned population growth during construction or operation. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. A significant impact may occur if a project would result in displacement of existing people or housing units, necessitating construction of replacement housing elsewhere.

The Project Site is currently developed with one commercial building containing 12,550 square feet and a partially-paved tow yard. The Project would not involve the demolition, removal, or change in use of any residential uses. As such, the Project would not displace substantial numbers of existing people or housing, and the construction of replacement housing elsewhere would not be required. **Therefore, no impacts would occur, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
15. PUBLIC SERVICES. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
a) Fire protection?	☐	☐	☒	☐
b) Police protection?	☐	☐	☒	☐
c) Schools?	☐	☐	☒	☐
d) Parks?	☐	☐	☒	☐
e) Other public facilities?	☐	☐	☒	☐

Regulatory Setting

Regulations and policies exist the State and local level with regard to public services and include:

- Senate Bill 50
- South Gate General Plan 2035, Green City Element
- South Gate General Plan 2035, Public Facilities and Services Element
- South Gate General Plan 2035, Safety Element
- South Gate Municipal Code

Environmental Setting

Fire Protection

The Los Angeles County Fire Department (LACoFD) provides fire protection to the City. There are two (2) stations located in the City. Station 54 is located at 4867 Southern Avenue and Station 57 is located at 5720 Gardendale Street. While Fire Stations 54 and 57 are located in the City, the LACoFD operates under a regional concept in its approach to providing fire protection and emergency medical services, wherein emergency units are dispatched as needed to an incident anywhere in the LACoFD service territory based on distance and availability, without regard to jurisdictional or municipal boundaries.[86] The LACoFD provides for the public's safety by deploying and staffing a variety of emergency response vehicles and covers emergency medical services, and health hazardous material and emergency operations.[87]

Police Protection

The South Gate Police Department (SGPD) provides law enforcement services to residents and businesses in the City. The SGPD operates out of its headquarters at 8620 California Avenue.[88] The SGPD has mutual aid agreements with all surrounding police agencies, including the Los Angeles Sheriff's Department and

86 City of South Gate General Plan Update Program EIR, May 2009.
87 City of South Gate, Fire Stations, https://www.cityofsouthgate.org/City-Services/Public-Safety/Fire-Stations, accessed July 2026.
88 City of South Gate, Police, https://www.cityofsouthgate.org/Government/Departments/Police, accessed July 2026.

Downey Police Department. In addition, the SGPD's Crime Impact Team (CIT) has a working relationship with the Los Angeles Regional Gang Information Network (LARGIN). The SGPD is also responsible for animal services, and the City has an agreement with the Southeast Area Animal Control Association to provide 24-hour on-call services.[89]

Schools

The Project is in an area that is currently served by several Los Angeles Unified School District (LAUSD) public schools, as well as several private schools and after-school programs. The LAUSD jurisdiction encompasses an area of 710 square miles and serves approximately 550,000 students and operates over 1,500 schools and educational centers.[90] The LAUSD is divided into six local districts, and the Project Site is located within Board of Education District 1.[91]

Parks

The City Parks and Recreation Department operates 11 parks and a variety of recreation opportunities. Parks include the Cesar Chavez Park, Circle Park, Dog Park, Gardendale Tot Lot, Hollydale Community Park, Hollydale Regional Park, South Gate Park, Standford Park, State Street Park, Triangle Park, and Urban Orchard Park. The City has a senior center, the Margaret Travis Senior Center, a municipal auditorium, the South Gate Girls Club House, which offers a variety of recreational programs, a sports center, and a swim stadium.[92] The City's parks provide a range of facilities including athletic fields, play equipment, picnic areas, a swimming pool, grassy open spaces, and activity buildings. In addition to the park system, there are several trails traversing the City.[93]

Other Public Facilities

The City has two public libraries, Leland R. Weaver Library, located at 4035 Tweedy Boulevard, and Hollydale Library located at 12000 Garfield Avenue. Both are operated by Los Angeles County. The libraries have space for children and teens, including homework help. Additionally, the libraries include materials in both English and Spanish, meeting rooms, public computers for online research, eBooks, audiobooks, magazines, newspapers, and music. [94]

Checklist Discussion

a) Fire Protection?

Less Than Significant Impact. A project would normally have a significant impact on fire protection if it requires the addition of a new fire station or the expansion, consolidation or relocation of an existing facility to maintain service.

89 City of South Gate General Plan Update Program EIR, May 2009.
90 Los Angeles Unified School District, Fingertip Facts, 2025-26, https://4.files.edl.io/aef4/08/14/25/170225-cc3e26de-f440-4470-9e85-486022db3fa6.pdf, accessed July 2026.
91 Los Angeles Unified School District, LAUSD Maps, https://www.lausd.org/apps/pages/index.jsp?uREC_ID=4432584&type=d&pREC_ID=2672239, accessed June 2026.
92 City of South Gate, Parks & Recreation, https://www.cityofsouthgate.org/Government/Departments/Parks-and-Recreation, accessed July 2026.
93 City of South Gate General Plan Update Program EIR, May 2009.
94 Los Angeles County Public Libraries, https://lacountylibrary.org/library-locator/, accessed July 2026.

LACoFD maintains 174 stations that serve over 4 million plus residents.[95] The LACoFD has over 4,700 personnel and includes management of all emergency medical service (EMS) response and transport, and specialized units such as Wildland, Rescue, and Urban Search & Rescue units.[96] The Project Site would be served primarily by Station 54, located at 4867 Southern Avenue, approximately 0.4 roadway miles west of the Project Site.[97] The Project would result in the expansion and continued operation of the existing tow yard, which is not anticipated to increase demand on LACoFD fire protection services.

The City coordinates with the LACoFD to determine service demands based on response times, resources per dwelling unit, and regional response capacity. Indicators that reflect the need for additional fire protection services include response times, incident loads, resident and transient population, and square footage of improvements. The LACoFD's average response time for the City is 4 minutes and 58 seconds for emergency calls, and 7 minutes and 6 seconds for non-emergency calls. The LACoFD target response ratio is five-minutes for the first arriving unit for fire and Emergency Medical Service (EMS) responses and eight-minutes for the advanced life support (paramedic) unit in urban areas, which is based on the national guidelines.[98]

The Project would comply with all applicable LACoFD and Unified Development Code (UDC) fire-safety regulations, as well as those established by the California Fire Code, as adopted by the UDC, including those related to fire-protection systems (e.g., automatic sprinkler systems, life-safety alarm systems). Adherence to these regulations is anticipated to reduce the increase in demand for fire-protection services to levels where additional staff would not be required to accommodate any additional demand. Further, access to the Project Site would not be restricted and would continue to be provided through one driveway on the west side of Rayo Avenue. Implementation of the Project is not anticipated to increase response times to the Project Site or surrounding vicinity. Lastly, the City and LACoFD would be provided an opportunity to review and comment on all Project development plans before the issuance of building permits. City and LACoFD review would ensure adequate emergency access, fire hydrant availability, and compliance with all applicable codes. **Therefore, impacts to fire protection services would be less than significant and no mitigation measures would be required**.

b) Police Protection?

Less Than Significant Impact. A significant impact may occur if a project creates the need for new or physically altered police facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objective.

The Project Site would be served by the SGPD. The station is located at 8620 California Avenue, approximately 1.5 miles southeast of the Project Site. The SGPD's Patrol Division, which is made up of six teams, provides 24-hour general marked patrol and special enforcement services as needed. Each team is comprised of a Sergeant, a Field Training Officer, and an average of nine Police Officers.[99]

95 Los Angeles County Fire Department, 2017-2021 Strategic Plan.
96 Los Angeles County Fire Department, 2017-2021 Strategic Plan.
97 Los Angeles County Fire Department, Fire Station Locator, https://locator.lacounty.gov/fire, accessed July 2026.
98 City of South Gate General Plan Update Program EIR, May 2009.
99 City of South Gate General Plan Update Program EIR, May 2009.

Construction

Construction sites, if not properly managed, have the potential to attract criminal activity (such as trespassing, theft, and vandalism) and can become a distraction for local law enforcement from more pressing matters that require their attention. However, the Project would continue to operate as a tow yard during site improvement activities including construction and would not be a vacant construction site. Additionally, the Project Site is fully fenced and contains existing security measures including lighting and security cameras to deter trespassing, vandalism, potential criminal activity, and other nuisances. **Therefore, potential impacts to police protection services during construction of the Project would be less than significant and no mitigation measures would be required.**

Operation

As discussed in **Checklist Question 14, Population and Housing**, the Project would not increase the existing on-site resident population and is not anticipated to substantially increase the existing on-site employee population. Thus, the Project is not anticipated to increase demand for police protection services to levels where additional staff would be required to accommodate the additional demand. The Project Site is equipped with crime prevention features, such as nighttime security lighting, which would continue to operate when the Project's expanded tow yard use is operational. Implementation of the Project is not anticipated to increase response times to the Project Site or surrounding vicinity. Lastly, SGPD would be provided an opportunity to review and comment on all Project development plans before the issuance of building permits. SGPD review will ensure adequate design features are included to reduce any potential increase in demand for police protection services. No new or expanded police station facilities would be required as a result of the Project. **Therefore, impacts to police protection services would be less than significant and no mitigation measures would be required.**

c) Schools?

Less Than Significant Impact. A significant impact may occur if a project includes substantial employment or population growth, which could generate demand for school facilities that exceeds the capacity of the school district(s) responsible for serving the Project Site.

As previously discussed, the Project is not expected to change activities associated with the existing conditions in a way that would result in substantial employment or population growth. Thus, it is not expected that the Project would generate demand for school facilities that exceeds the capacity of the LAUSD.

The Leroy F. Greene School Facilities Act of 1998 (SB 50) sets a maximum level of fees a developer may be required to pay to mitigate a project's impacts on school facilities. The maximum fees authorized under SB 50 apply to zone changes, general plan amendments, zoning permits and subdivisions. Development fees are required to be paid pursuant to development conditions of approval. Pursuant to SB 50, the payment of these school fee amounts provided for in Government Code Sections 65995, 65995.5, and 65995.7 would constitute full and complete mitigation for school facilities. That is to say, SB 50 states that the exclusive method of mitigating the impact of school facilities according to CEQA is to pay the maximum school fees and that such fees are "deemed to provide full and complete school facilities mitigation" related to the adequacy of school facilities when considering approval or the establishment of conditions for the approval of a development project (Government Code 65996[a] and [b]).

Pursuant to California Government Code Section 65995.5-7, the LAUSD levees impact fees at a rate of $0.87 per square foot on new commercial and industrial development within the boundaries of the LAUSD.[100] Accordingly, project applicant(s) are required to pay school fees to LAUSD to offset the potential impact of additional student enrollment at schools serving the Project area.

Pursuant to state law, payment of the school fees established by the LAUSD in accordance with existing rules and regulations regarding the calculation and payment of such fees, would, by law, mitigate the Project's indirect impacts on any schools. **Therefore, impacts related to schools would be less than significant and no mitigation measures would be required**.

d) Parks?

Less Than Significant Impact. A significant impact to parks may occur if implementation of a project includes a new or physically altered park or creates the need for a new or physically altered park, the construction of which could cause substantial adverse physical impacts.

The nearest park, operated by the City Parks and Recreation Department, to the Project Site is South Gate Park, located at 4900 Southern Avenue, approximately 800 feet southwest of the Project Site.[101] As discussed in **Checklist Question 14, Population and Housing**, the Project would increase the residential population at the Project Site and would not substantially increase the employment population at the Project Site, and thus would not result in the need to construct new or physically alter existing recreational facilities, or the need for new or physically altered parks, the construction of which could cause significant environmental impacts. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

e) Other public facilities?

Less Than Significant Impact. A significant impact may occur if a project generates a demand for other public facilities (such as libraries) that exceeds the capacity available.

The Project Site would be served by the Leland R. Weaver Library, located at 4035 Tweedy Boulevard, approximately 1.5 miles southwest of the Project Site. The Project would not generate new residents on the Project Site, and this would not result in an increased demand for library services and resources; thus, the Project would not result in demand or impact on public facilities would require the provision of new or expanded public facilities in order to maintain an acceptable level of service. **Impacts from potential future development on the library would be less than significant and no mitigation measures would be required**.

Mitigation Measures

None required.

100 Los Angeles Unified School District, 2022 Developer Fee Justification Study, March 2026, https://4.files.edl.io/0bc1/05/22/26/161250-26fd9501-6360-44fb-a158-3bb37a543fd9.pdf. These rates are subject to change.

101 City of South Gate, Parks and Recreation Department, https://www.cityofsouthgate.org/Government/Departments/Parks-and-Recreation/Search-Parks accessed July 2026.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
16. RECREATION. Would the project:				
a) Increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	☐	☐	☒	☐

Environmental Setting

The City Parks and Recreation Department operates 11 parks and a variety of recreation opportunities. Parks include the Cesar Chavez Park, Circle Park, Dog Park, Gardendale Tot Lot, Hollydale Community Park, Hollydale Regional Park, South Gate Park, Standford Park, State Street Park, Triangle Park, and Urban Orchard Park. The City has a senior center, the Margaret Travis Senior Center, a municipal auditorium, the South Gate Girls Club House, which offers a variety of recreational programs, a sports center, and a swim stadium.[102] The City's parks provide a range of facilities including athletic fields, play equipment, picnic areas, a swimming pool, grassy open spaces, and activity buildings. In addition to the park system, there are several trails traversing the City.[103]

Checklist Discussion

a) Would the project Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated?

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less Than Significant Impact. A significant impact may occur if a project would include substantial employment or population growth which could generate an increased demand for park or recreational facilities that would exceed the capacity of existing parks and causes premature deterioration of the park facilities.

As previously discussed in **Checklist Question 15, Public Services**, the nearest park, operated by the City Parks and Recreation Department, to the Project Site is South Gate Park, located at 4900 Southern

102 City of South Gate, Parks & Recreation, https://www.cityofsouthgate.org/Government/Departments/Parks-and-Recreation, accessed July 2026.

103 City of South Gate General Plan Update Program EIR, May 2009.

Avenue, approximately 800 feet southwest of the Project Site.[104] As discussed in **Checklist Question 14, Population and Housing**, the Project would increase the residential population at the Project Site and would not substantially increase the employment population at the Project Site, and thus would not create unanticipated demand on City parks or cause substantial deterioration of existing parks such that new park facilities would be needed. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

104 City of South Gate, Parks and Recreation Department, https://www.cityofsouthgate.org/Government/Departments/Parks-and-Recreation/Search-Parks accessed July 2026.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
17. TRANSPORTATION. Would the project:				
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

Regulatory Setting

Regulations and policies exist at the state, regional, and local levels as follows:

- Senate Bill 743
- SCAG'S 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
- CEQA Guidelines Section 15064.3
- County of Los Angeles Transportation Analysis Guidelines
- South Gate General Plan 2035, Mobility Element

Environmental Setting

The City has an established system of streets and roadways, which is currently served by primary arterials, secondary arterials, and collector streets. The primary arterial roadways through the City extend beyond the City boundaries into neighboring cities. Circulation issues and travel patterns, likewise, extend beyond the City limits. The land use decisions and traffic patterns in these other jurisdictions have the potential to affect the quality of traffic flow and mobility in the City, and conversely, traffic conditions and decisions made by the City can affect its neighbors.

Regional vehicular access to the Project Site is available via the I-710 Freeway, located approximately 1.0 miles east of the Project Site. Local access to the Project Site is provided via Rayo Street, which intersects with Firestone Boulevard to the northeast and Southern Avenue to the south. Site access is provided by a driveway from Rayo Avenue.

Checklist Discussion

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less Than Significant Impact. A significant impact may occur if a project would conflict with a program plan, ordinance, or policy designed to maintain adequate effectiveness of an overall circulation system, including transit, roadway, bicycle, and pedestrian facilities.

Construction of the Project would generate traffic for deliveries of equipment and materials to the Project Site and create construction worker traffic via the surrounding roadway network. Construction vehicles and equipment would be staged on the Site. The increase in average daily traffic would be minimal on Rayo Avenue and the surrounding roadway network, and traffic generated during Project construction is not anticipated to affect the performance of the circulation system. In addition, construction traffic would be temporary, and the movement of construction equipment would be limited to the Project Site. Construction of the Project would not involve any vehicle or equipment staging on Rayo Avenue and would not require any long-term lane closures on Rayo Avenue or any public streets. Construction also would not require any temporary closures or alterations to the transit route located in the vicinity. Therefore, construction activities would not substantially interfere with the City's circulation system. Furthermore, the City is responsible for traffic control plan reviews. As part of the construction coordination for the Project, the City would determine the need for traffic control measures to avoid traffic congestion impacts, potential safety conflicts with bicycles and pedestrians.

As discussed in **Checklist Question 17(b), Transportation**, below, the operation of the Project, which consists of an expansion of the existing tow yard use, would generate minimal long-term traffic trips. Therefore, no long-term adverse traffic impacts would occur that would conflict with programs, ordinances or policies evaluating circulation systems within the City.

Based on the above as well as the analysis presented in **Checklist Question 9, Land Use**, the Project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

Less Than Significant Impact. CEQA Guidelines Section 15064.3(b) identifies appropriate criteria for evaluating transportation impacts. It States that land use projects with Vehicle Miles Traveled (VMT) exceeding an applicable threshold of significance may indicate a significant impact, and that projects that decrease VMT compared to existing conditions should be presumed to have a less than significant transportation impact. Section 15064.3(c) States that the requirement to use these criteria only applies on and after July 1, 2020. A deadline of July 1, 2020 was established for jurisdictions to adopt thresholds for evaluation of transportation impacts according to VMT. The City did not prepare revised traffic impact guidelines or separate VMT analysis guidelines by the July 1, 2020, deadline. However, CEQA Guidelines Section 15064.7(c) States the following:

> *When adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies or*

recommended by experts, provided the decision of the lead agency is supported by substantial evidence.

While the City has not yet adopted formal VMT guidelines, in July 2020, the County of Los Angeles developed the Transportation Impact Analysis Guidelines[105] (County's Guidelines) under which the transportation-related impacts of development projects are to be analyzed to comply with the updated CEQA guidelines. The County's Guidelines provide four screening criteria to be used to determine if a VMT analysis will be required for a development project. The four screening criteria outlined in the County's Guidelines are listed below:

1. Non-Retail Project Trip Generation Screening Criteria
2. Retail Project Site Plan Screening Criteria
3. Proximity to Transit Based Screening Criteria
4. Residential Land Use Based Screening Criteria

As applicable to the Project, the County's Guideline Number 1 establishes a trip threshold of 110 or more net daily vehicle trips for non-retail projects to determine when a development project is required to prepare a Transportation Impact Analysis (TIA). This screening criteria was applied to the Project uses to determine whether a TIA is required for the Project or if further analysis would be required to evaluate the Project's VMT impact. Operation of the Project as a tow yard would not result in 110 daily trips and thus the Project screens out based on the first screening criteria. Further, as the Project would generate fewer than 110 daily vehicle trips, it is not expected to result in significant transportation impacts to the surrounding transportation system. Therefore, no further analysis of transportation impacts is required under the County Guidelines or recommended for the Project. As such, the Project would not conflict with and would not be inconsistent with CEQA Guidelines Section 15064.3, and any impacts are less than significant. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact. A significant impact may occur if a project includes new roadway design or introduced a new land use or project features into an area with specific transportation requirements, characteristics, or project access or other features designed in such a way as to create hazardous conditions.

Vehicular access to the Project Site would be provided via the existing driveway on Rayo Avenue. No changes are proposed to the existing vehicular access point. Furthermore, no hazardous geometric design features or uses would be introduced with the Project that would create significant hazards to the surrounding roadways. Therefore, Project roadway improvements would not substantially increase hazards due to a design feature. **Impacts would be less than significant, and no mitigation measures would be required**.

[105] Los Angeles County, Public Works, Transportation Impact Analysis Guidelines, July 23, 2020 https://pw.lacounty.gov/traffic/docs/Transportation-Impact-Analysis-Guidelines-July-2020-v1.1.pdf.

d) Result in inadequate emergency access?

Less than Significant Impact. A significant impact may occur if the project design would not provide emergency access meeting the requirements of the SGPD or the LACoFD or threatened the ability of emergency vehicles to access and serve the Project Site or adjacent uses.

Project construction activities and staging areas would remain entirely on-site and are not anticipated to require temporary street and/or lane closure(s) on Rayo Avenue or any surrounding streets. In the unexpected event that lane closures are necessary, the remaining travel lanes would be maintained in accordance with standard construction management plans that would be implemented to ensure adequate circulation and emergency access.

With regards to operation, the Project would not cause permanent alterations to vehicular circulation routes and patterns, impede public access, or travel upon public rights-of-way. Emergency vehicle access to the Project Site would continue to be provided from Rayo Avenue. The Project would not include the installation of barriers that could impede emergency access within the vicinity of the Project Site. As discussed in **Checklist Question 15, Public Services**, the Project's proposed design, including ingress/egress and internal circulation, would be subject to review and approval by the LACoFD and SGPD. The Project would also introduce additional traffic in the Project vicinity, which could potentially affect emergency response to the Project Site and surrounding properties. However, as discussed under **Checklist Question 17(b), Transportation**, the Project would result in less-than-significant traffic impacts. Furthermore, drivers of emergency vehicles normally have a variety of options for avoiding traffic, such as using sirens and flashing lights to clear a path of travel or driving in the lanes of opposing traffic, pursuant to California Vehicle Code Section 21806.

Based on the above, emergency access to the Project Site and surrounding uses would be maintained at all times. As such, the Project would not result in inadequate emergency access. **Therefore, impacts would be less than significant, and no mitigation measures would be required.**

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
18. TRIBAL CULTURAL RESOURCES. Consultation with a California Native American tribe that has requested such consultation may assist a lead agency in determining whether the project may adversely affect tribal cultural resources, and if so, how such effects may be avoided or mitigated. Whether or not consultation has been requested, would the project cause a substantial adverse change in a site, feature, place, cultural landscape, sacred place, or object, with cultural value to a California Native American tribe, which is any of the following:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☒	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☒	☐

Regulatory Setting

The regulation that guides the consideration and treatment of tribal cultural resources is:

- Assembly Bill 52
- Senate Bill 18

Environmental Setting

Assembly Bill 52 (AB 52), Gatto. Native Americans: California Environmental Quality Act) and CEQA Public Resources Code Section 21080.31, subdivisions (b), (d)), requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a project.

California Government Code Section 65352.3 (adopted pursuant to the requirements of Senate Bill (SB) 18) requires local governments to contact, refer plans to, and consult with tribal organizations prior to adopting or amending a general or specific plan, or to designate open space that includes Native American Cultural Places. The tribal organizations eligible to consult have traditional lands in a local government's jurisdiction, and are identified, upon request, by the Native American Heritage Commission (NAHC). As noted in the California Office of Planning and Research's Tribal Consultation Guidelines (2005), "the intent of SB 18 is to provide California Native American tribes an opportunity to participate in local land use decisions at an early planning stage, for the purpose of protecting, or mitigating impacts to cultural places."

A comprehensive survey of cultural and historic resources has never been conducted.[106]

Checklist Discussion

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k)?

b) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Less Than Significant Impact. A Tribal Cultural Resource is defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe and that is listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources or determined by the City to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.

AB 52, signed into law on September 25, 2014, requires lead agencies to evaluate a project's potential to impact Tribal Cultural Resources (TCR) and establishes a formal notification and, if requested, consultation process for California Native American Tribes as part of CEQA. TCR may include sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe that are eligible for inclusion in the California Register or included in a local register of historical resources. AB 52 also gives lead agencies the discretion to determine, supported by substantial evidence, whether a resource qualifies as a TCR. Consultation is required upon request by a California Native American tribe that has previously requested that the City provide it with notice of such projects, and that is traditionally and culturally affiliated with the geographic area of a project.

The City initiated AB 52 consultation via letters mailed on April 23, 2026, inviting interested tribes to consult. The City requested a response within 30 days of receipt as specified by Assembly Bill 52 (AB 52). One tribe responded, the Gabrieleño Band of Mission Indians - Kizh Nation. The City initiated consultation with the tribe as requested, which was scheduled for June 4, 2026; the scheduled meeting was canceled by the tribe on June 4, 2026, and the City and tribe agreed to continue consultation via email. Emails from the City on June 30 and July 21 were not responded to, and consultation was closed after no further correspondence from the tribe was received.

[106] South Gate General Plan 2035, Community Design Element, May 29, 2009.

The Project Site is located within an urbanized area of the City and has been subject to grading and development in the past, including for site remediation as further discussed above in **Section 9. Hazards and Hazardous Materials** of this Initial Study. Therefore, surficial archaeological resources including tribal cultural resources that may have existed at one time have likely been previously disturbed. Nevertheless, it is always possible that unknown and unanticipated intact archaeological deposits and/or features including tribal cultural resources could be present at subsurface levels. Should archaeological and/or tribal cultural resources be inadvertently encountered during grading or construction activities, work would cease in the area of the find until a qualified archaeologist has evaluated the find in accordance with federal, State, and local guidelines, including those set forth in PRC Section 21083.2. The required compliance would ensure any found deposits are treated in accordance with federal, State, and local guidelines, including those set forth in PRC Section 21083.2. If the resources are identified to be tribal cultural resources, the temporary halting of construction activities near the encounter and notification of the City and any Native American tribes traditionally and culturally affiliated with the geographic area of the Project would be required. If the City determines that the potential resource appears to be a tribal cultural resource (as defined by PRC Section 21074), the City would provide any affected tribe a reasonable period of time to conduct a site visit and make recommendations regarding the monitoring of future ground disturbance activities, as well as the treatment and disposition of any discovered tribal cultural resources. The Applicant would then implement the tribe's recommendations if a qualified archaeologist reasonably concludes that the tribe's recommendations are reasonable and feasible. The recommendations would then be incorporated into a tribal cultural resource monitoring plan and once the plan is approved by the City, ground disturbance activities could resume.

Therefore, through regulatory compliance, **impacts related to tribal cultural resources would be less than significant and no mitigation measures would be required.**

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
19. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Regulatory Setting

- 2025 Urban Water Management Plan
- Assembly Bill 939
- California Code of Regulations Title 20
- California Code of Regulations Title 24
- South Gate General Plan 2035, Public Facilities and Services Element
- South Gate Municipal Code

Environmental Setting

Water

The City's Water Division (Water Division) provides potable water to all areas of South Gate, except for the Hollydale area, south of Gardendale Avenue. The City manages and operates groundwater wells, conduits, pipes, fire hydrants, and reservoirs. The City's water sources include groundwater from the Central Groundwater Basin (Basin), imported water from Metropolitan Water District of Southern California through Central Basin Municipal Water District (CBMWD), and recycled water purchased from

the Sanitation Districts of Los Angeles County through CBMWD. All of the City's groundwater wells are located along the Basin, which, on average, supplies 97 percent of the City's water supply.[107]

The Water Division is responsible for ensuring that water demand within the City is met and that State and federal water quality standards are achieved. The Water Division ensures the reliability and quality of its water supply through an extensive distribution system that includes approximately 14,442 connections, approximately six million acre-feet of underground storage programs, and ten groundwater wells.[108] According to the 2025 Urban Water Management Plan and Water Shortage Contingency Plan (UWMP), the City expects to meet projected demands through to 2050.[109]

Wastewater

The City's Public Works Department is responsible for the management and operation of the sewer collection system. The system consists of approximately 120 miles of gravity sewer pipelines, no pump/lift stations, and about 100 sewer siphons. There are approximately 2,400 maintenance holes and 19,500 service laterals within the City. The sewer collection system primarily discharges into LACSD facilities for transportation, treatment, and disposal. A small percentage of waste, collected by the City, joins the City of Paramount system and is then discharged into LACSD facilities.[110] The City is located within the service area of the Sanitation District 2 of Los Angeles County. The nearest wastewater treatment plant to South Gate is the A.K. Warren Water Resource Facility (Warren Facility), formerly known as Joint Water Pollution Control Plant or JWPCP, located in Carson. The Warren Facility provides both primary and secondary treatment for approximately 260 million gallons of wastewater per day (mgd), has a total permitted capacity of 400 mgd.[111]

Solid Waste

The City's Public Works Department supplies residents, businesses, and institutions with waste carts for trash, recyclables, and green waste through their contract with the private waste hauler, Universal Waste Systems, Inc. Services include trash pickup, recycling, bulky item pickup, organic waste recycling, green waste collection, and holiday tree recycling.[112] The California Integrated Waste Management Act of 1989 (Assembly Bill [AB] 939), as amended, was enacted to reduce, recycle, and reuse solid waste generated in the State. AB 939 requires city and county jurisdictions to divert 50 percent of the total waste stream from landfill disposal. AB 939 also requires each city and county to promote source reduction, recycling, and safe disposal or transformation. Furthermore, California cities and counties are required to submit annual reports to the California Department of Resources Recycling and Recovery (CalRecycle) to update their progress toward the AB 939 goals.

107 City of South Gate, 2025 Urban Water Management Plan and Water Shortage Contingency Plan, May 2026.
108 City of South Gate, 2025 Urban Water Management Plan and Water Shortage Contingency Plan, May 2026.
109 City of South Gate, 2025 Urban Water Management Plan and Water Shortage Contingency Plan, May 2026.
110 City of South Gate Sewer System Management Plan, January 2023.
111 Los Angeles County Sanitation Districts, Joint Water Pollution Control Plant, https://www.lacsd.org/services/wastewater-sewage/facilities/ak-warren-water-resource-facility/wastewater-treatment-process, accessed July 2026.
112 City of South Gate, Public Works, https://www.cityofsouthgate.org/Government/Departments/Public-Works/Maintenance-Services/Trash-Pickup-Illegal-Dumping, accessed July 2026.

Electric Power Facilities

Electricity is provided to the City by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons, within a service area encompassing approximately 50,000 square miles.[113] SCE derives electricity from varied energy resources including fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. In 2021, California generated 277,746 gigawatt-hours (GWh) of electricity, approximately of which 33 percent was from renewable resources.[114]

Natural Gas Facilities

Natural gas is provided to the City by SoCalGas. California consumed approximately 11,104 MMthm of natural gas in 2024.[115]

Checklist Discussion

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Less Than Significant Impact.

Water Facilities

It is not anticipated that the Project, which consists of the expansion of an existing tow yard, would require the upgrades to new water distribution or treatment facilities. Furthermore, the demand and installation of new water supply lines and fire hydrants are evaluated and managed by the City's Water Division and LACoFD, respectively, under their own independent environmental analysis. Should the Project Site require upgrades to on-site water distribution lines to serve the site improvements, impacts would be limited to on-site water distribution, and minor off-site work associated with connections to the public main. Prior to ground disturbance, Project contractors would coordinate with the Water Division to identify the locations and depth of all lines. Furthermore, the City's Water Division would be notified in advance of proposed ground disturbance activities to avoid water lines and disruption of water service and including off-site connection to existing water lines. Therefore, the construction of new water facilities would not result in significant environmental effects. Accordingly, impacts related to the construction of new water facilities would be less than significant.

Wastewater Facilities

As detailed below in response to **Checklist Question 19(c)**, the Project's wastewater would be treated by LACSD's Warren Facility, which has adequate capacity to serve the Project. Accordingly, it is not anticipated that the Project, which includes expansion of an existing tow yard operation, would require

113 Southern California Edison, Who We Are, https://www.sce.com/about-sce, accessed July 2026.
114 California Energy Commission, 2020 Total System Electric Generation, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation, accessed July 2026.
115 California Energy Commission, Natural Gas Consumption by Entity, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-1, accessed July 2026.

upgrades to or construction of new wastewater treatment facilities. During construction of the Project, workers would utilize either the existing on-site restrooms or portable restrooms, which would not contribute to increased wastewater flows to the wastewater system. Therefore, wastewater generation from Project construction activities is not anticipated to cause any increase in wastewater flows. The Project would require upgrades to on-site wastewater infrastructure to serve the new development as the Project includes construction of a 560-square-foot office building, which would include a restroom. Potential impacts associated with wastewater infrastructure improvements, should they be required, would primarily be confined to trenching for miscellaneous utility lines and connections to public infrastructure. Installation of wastewater infrastructure would be limited to on-site wastewater distribution, and minor off-site work associated with connections to the public main. Although no upgrades to the public main are anticipated, minor off-site work along the Project frontage would be required in order to connect the new office building to the public main. All off-site work would be performed in consultation and under the approval of the City's Public Works Department. Therefore, the construction of new wastewater facilities would not result in significant environmental effects. Accordingly, impacts related to the construction of new wastewater facilities would be less than significant.

Stormwater Drainage Facilities

Refer to **Checklist Question 10c(iii), Hydrology and Water Quality**, above for a discussion of stormwater drainage facilities. As discussed there, BMPs would be required to control stormwater runoff, and runoff would continue to drain to the stormwater system on Rayo Avenue. Stormwater runoff from the Project Site is not expected to exceed the capacity of the existing or planned stormwater drainage systems and would not be expected to require the construction of new facilities. Therefore, the construction of new stormwater drainage facilities would not result in significant environmental effects. Accordingly, impacts related to the construction of new stormwater facilities would be less than significant.

Electric Power Facilities

The SCE would supply the Project from the existing electrical system. However, the Project would require the installation of new on-site electrical distribution facilities and connection to the off-site electrical system for the proposed new office building. All electrical facility installation and connection to the existing system would be done in coordination and under the approval of the SCE. Electricity demand during construction would vary throughout the construction period based on the construction activities being performed and would cease upon completion of construction. When not in use, electric equipment would be powered off so as to avoid unnecessary energy consumption. Accordingly, it is not expected that the temporary demand for electricity during construction would require new electric power facilities.

The Project, which is comprised of expansion of an existing tow lot operation, would represent an insignificant percentage of the SCE 's projected annual sales during operation. Furthermore, as discussed in response to **Checklist Question 6(a), Energy**, the incorporation of the Title 24 energy conservation standards into the Project would ensure that the Project would not result in the inefficient, unnecessary, or wasteful consumption of energy, including electricity. As such, it is anticipated that SCE's existing and planned electricity capacity and electricity supplies would be sufficient to support the Project's electricity demand. Based on the above, the construction of new on-site electric power distribution facilities would not result in significant environmental effects, and the expansion of off-site electric power sources would not be required. Accordingly, impacts would be less than significant.

Natural Gas Facilities

SoCalGas would supply the Project from the existing natural gas facilities. However, construction activities typically do not involve the consumption of natural gas. Accordingly, there would be no demand generated by construction and no new natural gas facilities would be required.

During operation, the Project is not expected to require natural gas service as the Project consists of expansion of an existing tow lot and construction of a new 560-square-foot office building associated with the tow lot. However, should natural gas service be needed, it would be provided in accordance with the SoCalGas's policies and extension rules on file with the California Public Utilities Commission (CPUC) at the time contractual agreements are made. The Project would be responsible for paying connection costs to connect its on-site service meters to existing infrastructure. SoCalGas undertakes expansion and/or modification of the natural gas infrastructure to serve future growth within its service area as part of the normal process of providing service. There would be no disruption of service to other consumers during the installation of these improvements. As detailed in response to **Checklist Question 6(a), Energy**, any potential natural gas demand of the Project during operation would represent an insignificant percentage of the forecasted consumption of natural gas in SoCalGas' planning area. Furthermore, as discussed in response to **Checklist Question 6(a), Energy**, the incorporation of the Title 24 energy conservation standards into the Project would ensure that the Project would not result in the inefficient, unnecessary, or wasteful consumption of energy, including natural gas. As such, it is expected that SoCalGas' existing and planned natural gas capacity and supplies Project Site be sufficient to serve the Project's demand. Based on the above, the upgrades to on-site natural gas facilities would not result in significant environmental effects and the expansion of off-site natural gas sources would not be required. Accordingly, impacts would be less than significant.

Telecommunication Facilities

Construction-related activities, including grading, could encroach on telecommunication facilities. However, before construction begins, the Project applicant would be required to coordinate with applicable regulatory agencies and telecommunication providers to locate telecommunication facilities. Therefore, the location of telecommunication facilities would not result in significant environmental effects. Furthermore, telecommunication services are provided by private companies, the selection of which is at the discretion of the Applicant and/or the successor on an ongoing basis. Accordingly, Project impacts to telecommunication facilities would be less than significant.

Therefore, the Project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects. **Impacts would be less than significant, and no mitigation measures would be required.**

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less Than Significant Impact. A significant impact may occur if a project were to increase water consumption to such a degree that new water sources would need to be identified, or that existing resources would be consumed at a pace greater than planned for by purveyors, distributors, and service providers.

According to the 2025 Urban Water Management Plan and Water Shortage Contingency Plan (UWMP), the City expects to meet projected demands through to 2050.[116] The Project is expected to result in a minimal increase of water consumption on the site, first for BMPs such as dust control practices during grading activities and then for water service to the new 560-square-foot office building.

The Project would comply with the California's Green Building Standards Code, which would require implementation of water saving features to reduce the amount of water used by the Project, including, high efficiency toilet and urinals and low flow faucets. All fixtures would be required to meet applicable flush volumes and flow rates. In addition, the Project would be prohibited from using single-pass cooling systems. Compliance with these requirements and water conservation measures, including Title 20 and 24 of the California Administrative Code, would further reduce the above projected water demand.

The Project Site's total water demand after site improvements is expected to be within overall City's projections and would not require new water supply entitlements and/or require the expansion of existing or construction of new water facilities beyond those already considered in the 2025 UWMP.

Therefore, based on the above, sufficient water supplies would be available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years. **Accordingly, impacts related to water supply would be less than significant and no mitigation measures would be required**.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. A significant impact may occur if a project would increase wastewater generation to such a degree that the capacity of facilities currently serving a project site would be exceeded.

The type and amount of wastewater that would be generated by the Project would be typical for the industrial use of the Site. The Project includes a new restroom in the proposed office building to be added to the site. The new restroom would require upgrades of on-site wastewater infrastructure to serve the new development. The Project Site's wastewater would continue to be conveyed to the Warren Facility. Recent data on the Warren Facility website indicates that on average 260 mgd of wastewater enters the Warren Facility on a daily basis. The plant was designed to accommodate both dry and wet weather days with a maximum daily flow of 400 mgd.[117] Accordingly, there is a capacity of 140 mgd, or 35 percent of the total. Therefore, the Warren Facility has adequate capacity to serve the Project's demand of one new bathroom in addition to its existing commitments, and the Project would not require the construction of new or expanded wastewater treatment facilities. **Accordingly, impacts related to wastewater treatment capacity would be less than significant and no mitigation measures would be required**.

116 City of South Gate, 2025 Urban Water Management Plan and Water Shortage Contingency Plan, May 2026.
117 Los Angeles County Sanitation Districts, Joint Water Pollution Control Plant, https://www.lacsd.org/services/wastewater-sewage/facilities/ak-warren-water-resource-facility/wastewater-treatment-process, accessed July 2026.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less Than Significant Impact. A significant impact may occur if a project were to increase solid waste generation to a degree that existing and projected landfill capacity would be insufficient to accommodate the additional solid waste.

Waste disposal sites (i.e., landfills) are operated by the City and County as well as by private companies. In addition, transfer stations temporarily store debris until larger haul trucks are available to transport the materials directly to the landfills. Landfill availability is limited by several factors, including: (1) restrictions to accepting waste generated only within a particular landfill's jurisdiction and/or watershed boundary, (2) tonnage permit limitations, (3) types of waste, and (4) operational constraints. Planning to serve long-term disposal needs is constantly being conducted at the regional level (e.g., siting new landfills within the County and transporting waste outside the region).

Waste generated within the City is taken to the following facilities: El Sobrante Landfill or the South Gate transfer station, where recyclables are separated from the solid waste. The El Sobrante Landfill accepts residential, commercial, and construction waste and is permitted to receive 16,054 tons of waste per day and has a remaining capacity of 143,977,170 cubic yards.[118]

Construction

Implementation of the Project would generate construction waste including concrete rubble and asphalt during the grading and paving phase, as well as wood, drywall, metals, concrete rubble, and other miscellaneous and composite materials during construction of the proposed office building. In order to help meet the landfill diversion goals, as outlined in SGMC Section 13.200.100, a diversion requirement shall be met that the Applicant has diverted at least fifty percent of the total C&D debris generated by the Project via reuse or recycling. Moreover, there are 148.40 million tons of remaining capacity available in Los Angeles County for the disposal of inert waste.[119] Some C&D waste may also be landfilled at the El Sobrante Landfill. Thus, Project-generated C&D waste would represent a very small percentage of the waste disposal capacity in the region, and as noted, the aggregate amount estimated in the above table would not all be landfilled since the Project would comply with City's recycling requirements. **Therefore, construction impacts would be less than significant, and no mitigation measures would be required.**

Operation

During operation, the Project would generate solid waste that is typical of a commercial office use and industrial vehicular storage uses and would be required to comply with all federal, State, and local statutes and regulations regarding proper disposal. As discussed below in response to **Checklist Question 19(e)**, AB 939 was enacted to reduce, recycle, and reuse solid waste generated in the State to the maximum extent feasible. Specifically, AB 939 required cities and counties to identify an implementation schedule to divert 50 percent of the total waste stream from landfill disposal. AB 939 also required each city and county to promote source reduction, recycling, and safe disposal or transformation. All solid waste-

118 California Department of Resources Recycling and Recovery, SWIS Facility, El Sobrante Landfill, https://www2.calrecycle.ca.gov/SolidWaste/Site/Summary/2402. Accessed October 2023.

119 County of Los Angeles Department of Public Works, Countywide Integrated Management Plan 2019 Annual Report, September 2020.

generating activities within the City, including the Project, would continue to be subject to the requirements set forth in AB 939. Therefore, it is assumed that the Project would divert 50 percent of its solid waste generated, thereby diverting this waste from landfills and have adequate areas for collection and removal of recyclable materials. The El Sobrante Landfill permitted daily intake of 16,054 tons per day is expected to have capacity to accept the daily operational waste generated by the Project under the existing permitted amount. Therefore, the Project would not generate solid waste in excess of State and local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. **Accordingly, impacts related to solid waste and solid waste reduction goals would be less than significant and no mitigation measures would be required**.

e) Comply with federal, State, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. A significant impact may occur if a project would generate solid waste that was not disposed of in accordance with applicable regulations. Solid waste generated on-site by the project would be disposed of in accordance with all applicable federal, State, and local regulations, related to solid waste, such as AB 939.

The Project would comply with federal, State, and local statues and regulations related to solid waste, such as AB 939 and the City's recycling programs for residences. The AB 939 requirement to reduce the solid waste stream in landfills by 50 percent means that half of the Project's total solid waste generated must be recycled rather than disposed of in a landfill. The Project would be required to comply with AB 939 requirements and approximately 50 percent of the Project's waste would be diverted for reuse or recycling; the remaining solid waste generated during operation would be disposed of in landfills. Therefore, the Project would not substantially increase solid waste generation in the City or the amount disposed into the landfills. **Impacts would be less than significant, and no mitigation measures would be required**.

Mitigation Measures

None required.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
20. WILDFIRE: If located in or near State responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Regulatory Setting

- South Gate General Plan 2035, Public Facilities and Services Element
- South Gate General Plan 2035, Safety Element
- South Gate Municipal Code

Environmental Setting

The City is completely urbanized and there are no areas within the City that are classified within a Very High Fire Hazard Severity Zone (VHFHSZ), which is the highest wildfire risk classification designated by Cal FIRE.[120]

Checklist Discussion

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. A significant impact may occur if a project were to interfere with roadway operations used in conjunction with an emergency response plan or emergency evacuation plan or would generate traffic congestion that would interfere with the execution of such a plan.

120 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.

The Project Site is not located within or near a State responsibility area or an area classified as a VHFHSZ.[121] As stated in the General Plan's Safety Element, as part of the City's preparedness initiatives, an Evacuation Analysis has been prepared that identifies the routes used for evacuation purposes. As identified in the General Plan's Safety Element, the nearest Disaster Routes to the Project Site are Firestone Boulevard and Atlantic Avenue.[122] The Project involves the ongoing operation of a tow yard on an industrial zoned parcel, a use that would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, as the Project does not propose any changes to Firestone Boulevard or Atlantic Avenue. While it is expected that construction activities for the Project would be confined on-site, limited off-site construction activities may occur in adjacent street rights-of-way during certain periods of the day as required by the City, which could potentially require temporary lane closures. No full road closures would occur on Firestone Boulevard or Atlantic Avenue during construction and thus adequate circulation, and emergency access would remain. With regard to operation, the Project does not propose the permanent closure of any local public streets and primary access to the Project Site would continue to be provided from Rayo Avenue. In addition, the Project would comply with LACoFD access requirements and applicable LACoFD regulations regarding safety. Therefore, the Project would not result in inadequate emergency access to the Project Site or surrounding uses, and the Project would not impair the implementation of the City's emergency response plan. **Therefore, the Project would not impede or conflict with any adopted emergency response or evacuation plans and the Project would have a less than significant impact on emergency response or evacuation plans**. **No mitigation measures would be required.**

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. For projects in or near State responsibility areas or an area classified with very high fire hazard severity, a significant impact may occur if a project were to expose people to pollutant concentrations from a wildfire or in the path of an uncontrolled spread of a wildfire.

The Project Site is located within an urban area and does not include wildlands or high fire hazard terrain or vegetation. The Project Site is not within a VHFHSZ.[123] As such, the Project would not exacerbate wildfire risks. **Therefore, no impacts would occur, and no mitigation measures would be required.**

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less Than Significant Impact. A significant impact may occur if a project would require the installation or maintenance of associated infrastructure that may exacerbate fire risks or that may result in temporary or ongoing impacts to the environment.

121 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.
122 South Gate General Plan 2035, Safety Element, March 13, 2018. Figure SE-2.
123 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.

The Project Site is not located within or near a State responsibility area or an area classified as a VHFHSZ.[124] The Project would involve the expansion of an existing tow lot and operation in an urban area. No new roads, fuel breaks, or emergency water sources would be installed or maintained. Installation of any required power lines or other utilities would be done in a manner consistent with other construction projects typical of urban development requiring connection to the existing utility grid and infrastructure and in accordance with applicable City building codes and utility provider policies and would not exacerbate wildfire risk. **Therefore, impacts would be less than significant, and no mitigation measures would be required**.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. A significant impact may occur if a project were to expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope stability, or drainage changes.

The Project Site is not located within or near a State responsibility area or an area an area classified as a VHFHSZ.[125] The Project would be required to comply with all developmental regulations and City building codes with regard to fire safety and would not exacerbate the potential for secondary wildfire risks at the Project Site. Any installation of on-site power lines required to provide the Project with electricity and connections to existing power lines would be conducted in coordination and under the supervision of the utility provider. Further, the Project Site and the surrounding vicinity is relatively flat with no major slopes that would be susceptible to flooding or landslide are located nearby. **Therefore, no impacts would occur, and no mitigation measures would be required.**

Mitigation Measures

None required.

124 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.

125 Office of the State Fire Marshal, Fire Hazard Severity Zones in State Responsibility Area, https://experience.arcgis.com/experience/5065c998b4b0462f9ec3c6c226c610a9, accessed June 2026.

	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
21. MANDATORY FINDINGS OF SIGNIFICANCE. Would the project:				
a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☒	☐
b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☐	☒	☐
c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

Checklist Discussion

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact. *State CEQA Guidelines* Section 15065(a) requires a finding of significance if a project "has the potential to substantially degrade the quality of the environment." In practice, this is the same standard as a significant effect on the environment, which is defined in *State CEQA Guidelines* Section 15382 as "a substantial or potentially substantial adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance."

As discussed in **Checklist Question 4, Biological Resources**, the Project Site and surrounding area are not within or near protected open space[126] or a designated Significant Ecological Area.[127] In addition, regional

126 Southern California Association of Governments, Data/Map Book for the City of South Gate, November 2019.
127 Los Angeles County Department of Regional Planning, Planning & Zoning Information, GIS-NET online database, https://rpgis.isd.lacounty.gov/Html5Viewer/index.html?viewer=GISNET_Public.GIS-NET_Public, accessed June 2026.

wildlife movement is restricted given the industrial and urban nature of the Project area surroundings, and no native resident or migratory fish or wildlife species, established native resident or migratory wildlife corridors, or native wildlife nursery sites exist on the Project Site. Furthermore, there are no protected or special status trees on the Project Site or within the adjacent right-of-way. Therefore, impacts would be less than significant.

As discussed in **Checklist Question 5, Cultural Resources**, the Project Site is currently improved with one building containing 12,550 square feet. The Project Site has been used for industrial and manufacturing purposes since the early 1940s.[128] A search of the national and State Historic Register indicated that no historical resources are located within the Project Site or in the immediate area.[129, 130] Therefore, impacts would be less than significant.

As discussed in **Checklist Question 5, Cultural Resources**, the Project Site is located within an urbanized area of the City and has been subject to grading and development in the past. Therefore, surficial archaeological resources that may have existed at one time have likely been previously disturbed. With adherence to the City's condition of approval consistent with PRC 21083.2, the Project would not cause a substantial adverse change in the significance of an archaeological resource. Therefore, impacts would be less than significant.

As discussed in **Checklist Question 7, Geology and Soils**, as the Project Site has been previously graded and developed, surficial paleontological resources that may have existed at one time have likely been previously disturbed. However, significant portions of the City have not been surveyed or studied for cultural resources.[131] The Project does not require excavation and thus would be unlikely to uncover fossil vertebrate remains. In the event archaeological resources or paleontological resources are discovered, found deposits would be treated in accordance with federal, State, and local guidelines, including those set forth in California Public Resources Code Section 21083.2. Therefore, the Project would not directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. **Accordingly, impacts would be less than significant.**

As discussed in **Checklist Question 7, Geology and Soils**, with regard to a unique geologic feature, the Project Site is currently developed with one building and partially used as a tow yard and there are no unique geologic features on the Project Site. Therefore, the Project would not directly or indirectly destroy a unique geologic feature. Therefore, impacts would be less than significant.

Overall, the Project does not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of

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128 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025. Included as Appendix HAZ-2 to this document.

129 U.S. Department of the Interior, National Park Service. National Register of Historic Places. https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466, accessed June 2026.

130 California Office of Historic Preservation. California Historical Resources Listed, https://ohp.parks.ca.gov/ListedResources/?view=county&criteria=19, accessed June 2026.

131 City of South Gate General Plan Update Program EIR, May 2009.

the major periods of California history or prehistory. **Impacts would be less than significant, and no mitigation measures are required.**

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact. A significant impact could occur if a project, in conjunction with other projects in the area of the Project Site, would result in impacts that would be less than significant when viewed separately, but would be significant when viewed together.

Cumulative impacts analysis is provided below.

Aesthetics

Related projects would be reviewed on a case-by-case basis by the City to comply with the SGMC requirements regarding building heights, setbacks, massing, and lighting, or, for those projects that require discretionary actions, to undergo site-specific review regarding building density, design, and light and glare effects. As discussed in **Checklist Question 1**, **Aesthetics**, the Project's aesthetics impact would not be considered a significant impact on the environment. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts to aesthetics would be less than significant.

Agriculture and Forestry Resources

Development of the Project in combination with the related projects would not result in the conversion of state-designated agricultural land from agricultural use to a non-agricultural use, nor result in the loss of forest land or conversion of forest land to non-forest use. The Extent of Important Farmland Map Coverage maintained by the Division of Land Protection indicates that the Project Site and the surrounding area are not included in the Important Farmland category. The Project Site and the surrounding area are highly urbanized area and do not include any state-designated agricultural lands or forest uses. Project impacts to agricultural lands or forest uses would not occur. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts and no cumulative impacts to agricultural or forestry resources would occur.

Air Quality

SCAQMD recommends that any construction-related emissions and operational emissions from individual development projects that exceed the project-specific mass daily emissions thresholds identified above also be considered cumulatively considerable. Individual projects that generate emissions not in excess of SCAQMD's significance thresholds would not contribute considerably to any potential cumulative impact. SCAQMD neither recommends quantified analyses of the emissions generated by a set of cumulative development projects nor provides thresholds of significance to be used to assess the impacts associated with these emissions. As described above, the Project's expansion of the existing tow yard and addition of a 560-square-foot office building would not exceed SCAQMD's thresholds; therefore, the Project would not contribute a cumulatively considerable increase in emissions for the pollutants which the Basin is in nonattainment, and cumulative air quality impacts would be less than significant.

Biological Resources

The site is located in an urban area, is entirely paved and does not contain any vegetation. There are no protected species or heritage trees on the Project Site or in the adjacent public right-of-way. The Project would have no impact upon biological resources. Development of the Project in combination with the related projects would not significantly impact wildlife corridors or habitat for any candidate, sensitive, or special status species identified in local plans, policies, or regulations, or by the CDFG or the USFWS. In addition, development of the Project in combination with the related projects would not interfere substantially with the movement of any native resident or migratory fish, wildlife species, or with established native resident or migratory wildlife corridors, and/or impede the use of native wildlife nursery sites.

No such habitat occurs in the vicinity of the Project Site or related projects due to the existing urban development. Development of any of the related projects would be subject to the migratory bird treaty act (MBTA) if any related project has the potential to impact nesting birds. Project impacts to biological resources would be less than significant. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts to biological resources would be less than significant.

Cultural Resources

The Project would not result in a significant impact to historical resources. The Project Site is currently improved with one building containing 12,550 square feet which has been on the site since the 1950s and modified over the years to serve the evolving industrial uses of the site. It is unknown whether any of the properties on which related projects may be located contain historical resources. Any related project sites that contain historical resources would be required to comply with existing regulations and/or safeguard measures as appropriate for that project, including required compliance with CEQA's provisions regarding historical resources. As the Project would not result in a significant impact to historical resources, there is no potential for the Project to contribute to a cumulative impact, and thus, the cumulative impact would be less than significant.

With regard to cultural resources as it relates to archaeological resources and human remains, the Project would be required to comply with existing regulatory requirements that would ensure impacts related to archaeological resources and human remains would be less than significant. Furthermore, related projects would be required to comply with existing regulatory requirements. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts to archaeological resources and human remains would be less than significant.

Energy

Each of the related projects would be evaluated within its own context with consideration of energy conservation features that could alleviate energy demand. Each related project would be required to be in compliance with Title 24 of the CCR (CalGreen) requiring building energy efficiency standards. Further, each related project would need to be consistent with the building energy efficiency requirements of Title 24 as well as how SCE serves each location with its existing distribution infrastructure. Finally, each related project would need to be consistent with how the SoCalGas serves each location with its existing distribution infrastructure.

SCE and SoCalGas undertake system expansions and secure the capacity to serve their service areas and take into consideration general growth and development. Operation is not expected to be needed to serve the proposed Project and thus would not exceed regional and local growth expectations for the area.

All forecasted growth would incorporate design features and energy conservation measures requiring building energy efficiency standards, and would also be in compliance with Title 24, which would reduce the impact on natural gas demand. It is also anticipated that future developments would upgrade distribution facilities, commensurate with their demand, in accordance with all established policies and procedures. Thus, there is a plan to secure natural gas supplies to meet demand. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative energy impacts would be less than significant.

Geology and Soils

Due to their site-specific nature, impacts related to geology and soils are typically assessed on a project-by-project basis for a particular localized area. As with the Project, related projects would address site-specific geologic hazards through implementation of site-specific geotechnical recommendations and/or mitigation measures. Related projects would also be subject to local, State, and federal regulations and standards for seismic safety. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts to geology and soils would be less than significant.

With regard to paleontological resources, the Project would be required to comply with existing regulatory requirements that would ensure impacts related to paleontological resources would be less than significant. Furthermore, related projects would be required to comply with existing regulatory requirements. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts to paleontological resources and would be less than significant.

Greenhouse Gases Emissions

Although the Project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not necessarily an adverse environmental effect. As discussed in CEQA case law,[132] the global scope of climate change and the fact that carbon dioxide and other GHGs, once released into the atmosphere, are not contained in the local area of their emission means that the impacts to be evaluated are also global rather than local. For many air pollutants, the significance of their environmental impact may depend greatly on where they are emitted; for GHGs, it does not.

For individual developments, like the Project, this fact gives rise to an argument that a certain amount of GHG emissions is as inevitable as population growth. Under this view, a significance criterion framed in terms of efficiency is superior to a simple numerical threshold because CEQA is not intended as a population control measure. Meeting statewide reduction goals does not preclude all new development. Rather, the Scoping Plan, the State's roadmap for meeting AB 32's target, assumes continued growth and depends on increased efficiency and conservation in land use and transportation from all Californians. To

132 Supreme Court of California, Center for Biological Diversity et al. v. California Department of Fish and Wildlife (2015), S217763, 11-13.

the extent a project incorporates efficiency and conservation measures sufficient to contribute its portion of the overall GHG reductions necessary, one can reasonably argue that the Project's impact is not cumulatively considerable, because it is helping to solve the cumulative problem of GHG emissions as envisioned by California law. As discussed above, the Project would not conflict with applicable regulatory plans and policies to reduce GHG emissions.

Similar to the Project, all future projects in the State would be reviewed for consistency with applicable State, regional and local plans, policies, or regulations for the reduction of GHGs. Therefore, based on the discussion above, and consistent with *State CEQA Guidelines* Section 15064(h)(3), the Project's generation of GHG emissions would not be cumulatively considerable because the Project would not conflict with an applicable plan, policy, or regulation for the purposes of reducing the emissions of GHGs. Therefore, the Project's contribution to cumulative impacts to GHGs would not be cumulative considerable, and cumulative impacts would be less than significant.

Hazards and Hazardous Materials

Hazards are site-specific and there is little, if any, cumulative hazardous relationship between the Project and potential related projects. Similar to the Project, potential impacts related to hazards would be assessed on a case-by-case basis and, if necessary, the applicants of the related projects would be required to implement the appropriate mitigation measures. Furthermore, the analysis of the Project's hazards and hazardous materials impact concluded that Project impacts would be less than significant levels with implementation of mitigation measure **MM-HAZ-1**. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and cumulative hazard and hazardous materials impacts would be less than significant.

Hydrology and Water Quality

With respect to construction impacts, it is unknown whether any related projects would have overlapping construction schedules with the Project. However, similar to the Project, related projects would be required to comply with the City Building Code, NPDES requirements, etc. Assuming compliance with these regulatory requirements, similar to the Project, the cumulative water quality impact during construction would be less than significant.

With respect to operational impacts, development of the Project in combination with related projects would result in the further infilling in an already developed area. The Project Site and the surrounding area are served by the existing City storm drain system. Runoff from the Project Site and the adjacent land uses is typically directed into the adjacent streets, where it flows to the drainage system. It is likely that most, if not all, related projects would also drain to the surrounding street system or otherwise retain stormwater on-site as all projects would comply with existing stormwater/LID requirements, which would ensure impacts are less than significant.

The runoff associated with related projects would either be directed in non-erosive drainage devices to landscaped areas or directed to an existing storm drain system and would not encounter exposed soils. Related projects would include a drainage system with pipes that would adequately convey surface water runoff into the existing storm drain or the on-site cisterns. Additionally, related projects would be required to implement BMPs and to conform to the existing NPDES water quality program. Therefore, cumulative hydrology and water quality impacts during operation would be less than significant.

Land Use and Planning

Development of related projects is reasonably anticipated to occur in accordance with adopted plans and regulations. It is also reasonably anticipated that most of related projects would be compatible with the zoning and land use designations of each related project site and its existing surrounding uses. In addition, it is reasonable to assume that related projects under consideration in the surrounding area would implement and support local and regional planning goals and policies. Therefore, cumulative land use impacts would be less than significant.

Mineral Resources

Development of the Project in combination with the related projects would not result in the loss of availability of mineral resources. There are no active mines or mineral resource extraction occurring on the Site or Project vicinity.[133] Furthermore, the Project would not involve mineral extraction activities, nor are any such activities presently occurring on the Project Site. As such, Project impacts would not occur to mineral resources. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and no cumulative impacts to mineral resources would occur.

Noise

The Project's construction activities could temporarily increase ambient noise levels at nearby noise-sensitive receptors, but impacts would be considered less than significant after mitigation. Any other developments that are built at the same time as the Project could contribute to additional increases in noise levels at receptors and result in cumulative exceedances of noise thresholds of significance. However, there are no known proposed or ongoing major construction projects within 500 feet of the Project. Therefore, the Project would not contribute to cumulatively considerable construction noise or vibration impacts.

The Project's on-site sources of operational noise would have less than significant impacts on surrounding ambient noise levels. As the surrounding properties share industrial land use designations and zoning, operational noise levels are expected to remain similar to existing conditions, and there is no potential for the Project's on-site operational noise levels to contribute to cumulative exceedances of operational thresholds of significance. Off-site, Project traffic would have an insignificant impact on surrounding roadways, which would be an imperceptible noise increase. Given this impact, the Project's traffic would not substantially contribute to any cumulatively considerable increases in traffic noise levels.

Population and Housing

Related projects would introduce additional residential and other related uses to the City. Any residential related projects would result in direct population growth. The related projects growth is not expected to not exceed the projected growth because residential development is expected to occur on parcels zoned and designated for residential land uses. The potential net increase of employees within the area is not cumulatively considerable as there are no thresholds for employee impacts. Because the Project would

133 California Division of Mine Reclamation, California Department of Conservation. https://maps.conservation.ca.gov/mol/index.html, accessed June 2026.

not displace any residents, the Project's population growth would not be cumulatively considerable. Therefore, the Project's cumulative impacts to population and housing would be less than significant.

Public Services

Fire

Development of the Project in combination with related projects would cumulatively increase the demand for fire protection services. Over time, LACoFD would continue to monitor population growth and land development throughout the City and identify additional resource needs including staffing, equipment, trucks and engines, ambulances, other special apparatuses, and possibly station expansions or new station construction that may become necessary to achieve the desired level of service. The City coordinates with the LACoFD to determine service demands based on response times, resources per dwelling unit, and regional response capacity. Any new or expanded fire station would be funded via existing mechanisms (e.g., property and sales taxes, government funding, and developer fees) to which the Project and related projects would contribute as applicable.

Moreover, all of the cumulative development would be reviewed by the City and LACoFD in order to ensure adequate fire flow capabilities and adequate emergency access. Compliance with LACoFD, City Building Code, and Fire Code requirements related to fire safety, access, and fire flow would ensure that cumulative impacts to fire protection would be less than significant.

Police

It is anticipated that the Project in combination with related projects would increase the demand for police protection services. This cumulative increase in demand for police protection services would increase demand for additional SGPD staffing, equipment, and facilities over time. Similar to the Project, other projects served by SGPD would implement safety and security features according to SGPD recommendations. SGPD would continue to monitor population growth and land development throughout the City and identify additional resource needs including staffing, equipment, vehicles, and possibly station expansions or new station construction that may become necessary to achieve the desired level of service. Through the City's regular budgeting efforts, SGPD's resource needs would be identified and monies allocated according to the priorities at the time. Any new or expanded police station would be funded via existing mechanisms (e.g., property and sales taxes, government funding, and developer fees) to which the Project and cumulative growth would contribute. Therefore, the cumulative impact on police protection services would be less than significant.

Schools

As previously discussed, payment of developer impact fees in accordance with SB 50 and pursuant to Section 65995 of the California Government Code would ensure that the impacts of the Project on school facilities would be less than significant. Similar to the Project, related projects would be required to pay school fees to the appropriate school district wherein their site is located. The payment of school fees would fully address any potential impacts to school facilities. Therefore, cumulative impacts would be less than significant.

Parks and Recreation

The Project would result in a less than significant impact on parks and recreational facilities. Depending on the type of related project, some related projects, particularly those that result in new residential units, would be required to dedicate land or submit payment of a fee in lieu. The payment of fees would address potential impacts to park and recreational facilities. Moreover, related projects containing residential uses would be required to comply with the City's open space requirements which would help offset new residential demand for park and recreational facilities. Therefore, the cumulative impact would be less than significant.

Library

Related projects within the City and with a residential component could generate additional residents who could increase the demand upon library services. Essentially, the provision of library services is the responsibility of local government. Regardless, the library's existing service level would be maintained without an additional library or alterations to the existing libraries. Therefore, combined with the Los Angeles County Library standards for new development and the fees to help to pay for any improvements that the Los Angeles County Library may do in the future impacts to library facilities would be less than significant. Therefore, the cumulative impact would be less than significant.

Transportation

Development of the Project in conjunction with the related projects could result in an increase in average daily vehicle trips and peak hour vehicle trips. Each of the related projects would be separately reviewed and approved by the City, including a check for their consistency with applicable programs, plans, policies, and ordinances. Collectively, the Project and the related projects add development in an urbanized area with high-quality transit options and high levels of pedestrian activity. Therefore, the Project, together with the related projects would neither create inconsistencies nor result in cumulative impacts with respect to the identified programs, plans, policies, and ordinances. Therefore, Project operation-related and cumulative-related traffic would not conflict with program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.

With respect to cumulative operational traffic impacts, analyses should consider both short-term and long-term project effects on VMT. The Project screens out of the analysis of project-level VMT analysis, as summarized above. Long-term, or cumulative, effects are determined through a consistency check with the 2020-2045 RTP/SCS. The 2020-2045 RTP/SCS is the regional plan that demonstrates compliance with air quality conformity requirements and GHG reduction targets. As such, projects that are consistent with this plan, such as the Project, in terms of development, location, density, and intensity, are part of the regional solution for meeting air pollution and GHG goals. Projects that are deemed to be consistent would have a less than significant cumulative impact on VMT. As previously discussed, the Project would not result in significant VMT impacts to the surrounding transportation system. Therefore, the Project would not make a cumulatively considerable contribution to operational traffic impacts.

Tribal Cultural Resources

The degree to which tribal cultural resources exist or could potentially exist at the sites of the related projects is unknown. However, any related project affecting an historical resource that could be considered a tribal cultural resource would require a resource evaluation to ensure that the related

project would not impact the historic resource. Additionally, as with the Project, processing of all related projects by the City would involve compliance with AB 52, including contacting appropriate tribal parties to offer consultation and conducting consultation if requested by the tribal parties. If consultation for those related projects identifies tribal cultural resources, then those related projects would be required to implement appropriate mitigation, as recommended/required by the tribal parties and/or City. Additionally, related projects would be required to comply with State law regarding the discovery of human remains (Health and Safety Code Section 7050.5).

Implementation of the required consultation process and development of mitigation, as necessary, would reduce potential impacts to known tribal cultural resources to a less-than-significant level. Additionally, the related project's adherence to the City's statutory protections of these resources would reduce potential impacts to previously unknown tribal cultural resources to a less-than-significant level. Therefore, cumulative impacts to tribal cultural resources would be less than significant.

Utilities and Service Systems

Water

Implementation of the Project in combination with related projects would generate demand for additional water supplies. In terms of the City's overall water supply condition, the water demand for any project that is consistent with the City's General Plan and long-range SCAG growth projections has been accounted for in the adopted 2025 UWMP. The 2025 UWMP anticipates that the future water supplies would be sufficient to meeting existing and planned growth in the City to the year 2050 (the planning horizon required of 2025 UWMP) under wet and dry year scenarios. The Project would be consistent with SCAG growth projections, and therefore, has been accounted for in the 2025 UWMP and its water demand would not be cumulatively considerable. Related projects as well as other development in the City's service area would be required to comply with current California Green Building Standards Code requirements to conserve water, and in addition, larger projects with over 500 residential units would have to prepare a Water Supply Assessment (pursuant to SB 610) to be reviewed and certified by the City to demonstrate adequate water supply. Therefore, because the 2025 UWMP forecasts adequate water supplies to meet all projected water demands in the City through the year 2050, cumulative impacts with respect to water supply are not anticipated from the development of the Project and related projects.

With respect to water treatment facilities, the daily treating capacity of the Warren Facility is 750 mgd. Therefore, the Warren Facility would have adequate capacity to serve the additional water demanded by the Project and, as such, the Project's demand would not be cumulatively considerable.

Development of the Project and future new development in the vicinity of the Project Site would cumulatively increase demands on the existing water infrastructure system. Similar to the Project, related projects would be subject to City review to assure the existing public infrastructure would be adequate to meet the domestic and fire water demands of each project and individual projects would be subject to City requirements regarding infrastructure improvements needed to meet respective water demands, flow and pressure requirements. Furthermore, the City completes five year updates of the 2025 UWMP and the LACoFD would conduct on-going evaluations of its infrastructure. Therefore, the cumulative impact would be less than significant.

Wastewater

Implementation of the Project in combination with related projects within the service area of the Warren Facility would generate additional wastewater that would be treated at Warren Facility. Currently, the Warren Facility has an average daily flow of 260 mgd; however, the Warren Facility has capacity to treat a maximum daily flow of 400 mgd. This equals a typical remaining capacity of 140 mgd of wastewater able to be treated at the Warren Facility. Therefore, the Warren Facility would have adequate capacity to serve the additional wastewater demanded by the Project and, as such, the Project's demand would not be cumulatively considerable.

With respect to wastewater infrastructure, the City's Public Works Department assesses the anticipated wastewater flows from development projects at the time of connection and makes the appropriate decisions on how best to connect to the local sewer lines at the time of construction. The applicants of related projects would be required to verify the anticipated sewer flows and points of connection and to assess the condition and capacity of the sewer lines receiving additional sewer flows from the Project and other cumulative development projects. If it is determined that the sewer system in the local area has insufficient capacity to serve a particular development, the developer of that project would be required to replace or build new sewer lines to a point in the sewer system with sufficient capacity to accommodate that project's increased flows. Each project would be evaluated on a case-by-case basis and would be required to consult with the City's Public Works Department (for projects within the City) and comply with all applicable City and State water conservation programs and sewer allocation ordinances. Therefore, the cumulative impact would be less than significant.

Solid Waste

Implementation of the Project in combination with related projects within the Southern California region that are serviced by area landfills would increase regional demands on landfill capacities. Construction of the Project and related projects generate C&D waste, resulting in a cumulative increase in the demand for inert (unclassified) landfill capacity. Per SGMC Section 13,200.100, which outlines a diversion requirement that shall be met by applicants to have diverted at least fifty percent of the total C&D debris generated by projects via reuse or recycling, it is anticipated that future cumulative development within the City would also implement similar measures to divert C&D waste from landfills. Furthermore, as described above, the El Sobrante Landfill has sufficient capacity to accommodate the Project, and, as such, the Project's demand would not be cumulatively considerable. Therefore, cumulative impacts from the C&D waste would be less than significant.

Operation of the Project in conjunction with related projects would generate municipal solid waste and result in a cumulative increase in the demand for waste disposal capacity at Class III landfills. The countywide demand for landfill capacity is continually evaluated by Los Angeles County through preparation of the County Integrated Waste Management Plan Annual Reports. Each Annual Report assesses future landfill disposal needs over a 15-year planning horizon. As such, the 2019 Annual Report (published September 2020) projects waste generation and available landfill capacity through 2034. Based on the 2019 Annual Report, Los Angeles County has the projected disposal capacity through 2034.[134] The Project's estimated increase in operational solid waste generation, in conjunction with related projects,

[134] Los Angeles County Department of Public Works, Countywide Integrated Waste Management Plan, 2019 Annual Report, published September 2020.

would represent an insignificant portion of the estimated waste that is anticipated to be generated in 2027 (the Project's anticipated occupancy year) and beyond. The County will continually address landfill capacity through the preparation of Annual Reports. The preparation of each Annual Report provides sufficient lead time (15 years) to address potential future shortfalls in landfill capacity. Therefore, cumulative impacts from operational solid waste would be less than significant.

Electrical Power

Implementation of the Project, in conjunction with related projects, would increase demands for electrical power. As discussed above, SCE utilizes renewable energy sources and is committed to meeting the requirement of the RPS Enforcement Program. All new development in California is required to be designed and constructed in conformance with State Building Energy Efficiency Standards outlined in Title 24. It is possible that implementation of related projects could require the removal of older structures that were not designed and constructed to conform with the more recent and stringent energy efficiency standards. Thus, it is possible that with implementation of related projects that the resulting demand for electricity supply could be the same or less than the existing condition. The estimated power requirement for related projects would be part of the total load growth forecast for the City and would be accounted for in the planned growth of power system. SCE undertakes expansion or modification of electrical service infrastructure and distribution systems to serve future growth in the City as required in the normal process of providing electrical service. Any potential cumulative impacts related to electric power service would be addressed through this process. Therefore, cumulative impacts related to electricity supply and infrastructure would be less than significant.

Natural Gas

Although the Project is not expected to require new or additional natural gas service, in conjunction with related projects, increase demands for natural gas could increase cumulatively. Energy consumption by new buildings in California is regulated by the State Building Energy Efficiency Standards, embodied in Title 24 of the California Code of Regulations. The efficiency standards apply to new construction of both residential and non-residential buildings and regulate insulation, glazing, lighting, shading, and water- and space-heating systems. Building efficiency standards are enforced through the local building permit process. Related projects and future development must also abide by the same statues, regulations, and programs that mandate or encourage energy conservation. SoCalGas is also required to plan for necessary upgrades and expansion to its systems to ensure that adequate service will be provided for other projects. Specifically, SoCalGas regularly updates its infrastructure reports as required by law. Development projects within its service area would also be anticipated to incorporate site-specific infrastructure improvements, as appropriate. Therefore, cumulative impacts are less than significant.

Wildfire

If lane closures are necessary to local streets adjacent to related project sites, travel lanes would be maintained in accordance with standard construction management plans that would be implemented to ensure adequate emergency access and circulation. Regarding operations, the related projects, like the Project, would comply with access requirements from the LACoFD and would not impede emergency access within the vicinity of each related project site. Therefore, related projects would not cause an impediment along the City's designated disaster routes or impair the implementation of the City's emergency response plan. Project impacts on the City's ability to implement an emergency response plan in the event of a wildfire would be less than significant. Therefore, the Project would not make a

cumulatively considerable contribution to any potential cumulative impacts, and cumulative impacts related to the implementation of the City's emergency response plan in the event of a wildfire would be less than significant.

All of the related project sites and the Project Site are within urbanized areas of the City and do not include wildlands or fire hazard terrain or vegetation. Therefore, the Project and related projects would not exacerbate wildfire risks and no exposure of Project occupants to pollutant concentrations from a wildfire would occur. As previously discussed, no wildfire impact would occur from the development of the Project. Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and no cumulative wildfire impact would occur.

Therefore, the Project would not make a cumulatively considerable contribution to any potential cumulative impacts, and impacts would be less than significant.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact with Mitigation. A significant impact may occur if a project has the potential to result in significant impacts, as discussed in the preceding sections, either directly or indirectly. Under this standard, a change to the physical environment that might otherwise be minor must be treated as significant if people would be significantly affected. This factor relates to adverse changes to the environment of human beings generally, and not to effects on particular individuals. While changes to the environment that could indirectly affect human beings would be represented by all of the designated CEQA environmental issue areas, those that could directly affect human beings include air quality, geology and soils, GHG emissions, hazards and hazardous materials, hydrology and water quality, noise, population and housing, public services, transportation, utilities and service systems, and wildfire. These changes are addressed in Checklist Sections 3.3, Air Quality; 3.7, Geology and Soils; 3.8, Greenhouse Gas Emissions; 3.9, Hazards and Hazardous Materials; 3.10, Hydrology and Water Quality; 3.13, Noise; 3.14, Population and Housing; 3.15, Public Services; 3.17, Transportation; 3.19, Utilities and Service Systems; and 3.20, Wildfire of this IS/MND.

As detailed in these sections, all potential impacts of the Project have been identified and were determined to be less than significant or were reduced to less than significant levels following mitigation. As such, the Project would not have the potential to result in substantial adverse impacts on human beings, either directly or indirectly. Impacts would be less than significant with implementation of the mitigation measure listed below.

Mitigation Measures

MM-HAZ-1: Prior to commencement of any on-site grading, a Focused Soil Management Plan ("SMP") shall be approved in accordance with the requirements of DTSC, U.S. EPA, SCAQMD, and LARWCQB. The SMP shall establish procedures for managing soil disturbance activities associated with the proposed site improvements at the Project Site based on existing soil data and shall define protocols for addressing any previously unknown soil impacts potentially encountered during construction. The SMP shall provide guidance during soil disturbance activities in areas of known contamination and to outline contingency measures to be taken if visual or other indications of previously unidentified hazardous material or waste impacts and/or subsurface features (e.g., underground storage tanks

[USTs], sumps, clarifiers, septic tanks) are encountered during site activities. The SMP shall also address soil management, movement, temporary storage, and disposal associated with site improvement activities associated with the Project.

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APPENDICES

APPENDIX HAZ-1 Shallow Soil Sampling Work Plan, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., March 2025.

APPENDIX HAZ-2 Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2024 Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by Haley & Aldrich, Inc., February 2025.

APPENDIX HAZ-3 Focused Soil Management Plan, MR. C's Towing, Cooper Drum Company Superfund Site, 9313 Rayo Avenue, South Gate, California, prepared by JHA Environmental, Inc., February 2, 2026.

HALEY ALDRICH

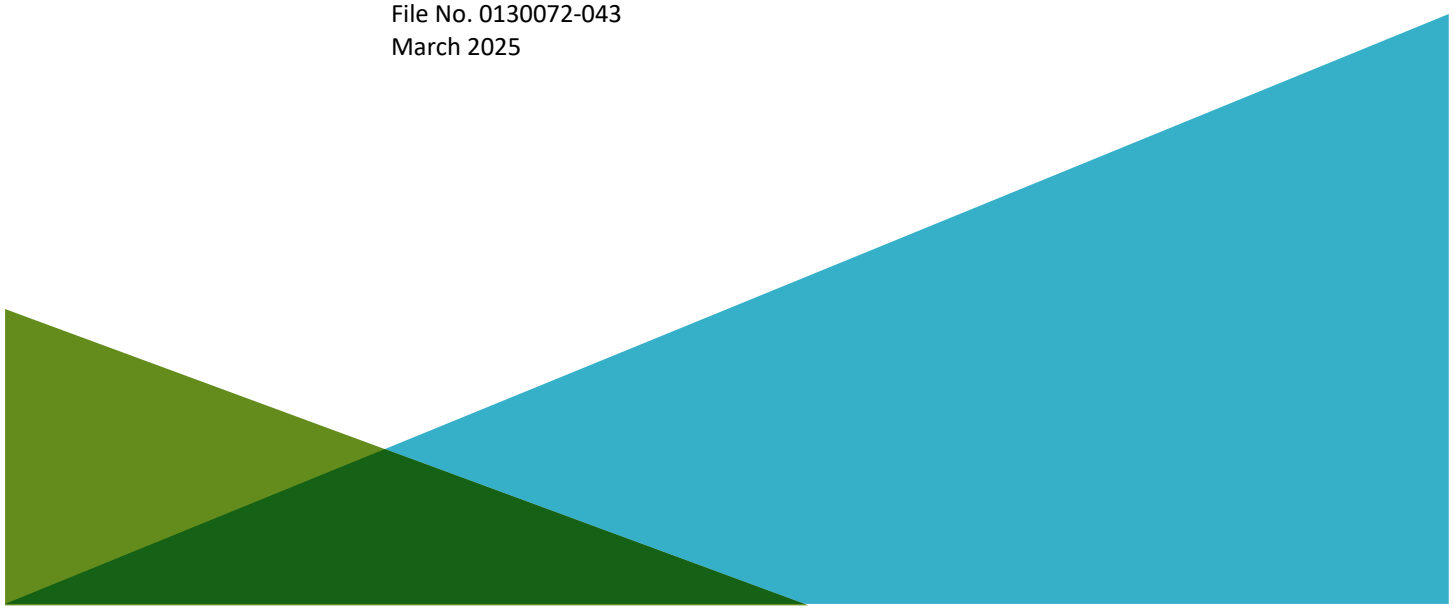
www.haleyaldrich.com

SHALLOW SOIL SAMPLING WORK PLAN
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

by
Haley & Aldrich, Inc.
Costa Mesa, California

for
Cooper Drum Cooperating Parties Group

File No. 0130072-043
March 2025



HALEY & ALDRICH, INC.
3187 Red Hill Avenue
Suite 155
Costa Mesa, CA 92626
714.371.1800

7 March 2025
File No. 0130072-043

United States Environmental Protection Agency, Region 9
600 Wilshire Boulevard, Suite 940
Los Angeles, California 90017

Attention: Sharissa Singh
Remedial Project Manager, Superfund Division

Subject: Shallow Soil Sampling Work Plan
Cooper Drum Company Superfund Site
9313 Rayo Avenue
South Gate, California

Dear Ms. Singh:

Haley & Aldrich, Inc. (Haley & Aldrich) prepared this *Shallow Soil Sampling Work Plan* (Work Plan) on behalf of the Cooper Drum Cooperating Parties Group (CDCPG) to further characterize chemicals of concern (COCs) in shallow soil at the Cooper Drum Company Superfund Site (Site) located at 9313 Rayo Avenue (formerly 9316 South Atlantic Avenue) in South Gate, California (Figure 1).

The current owner of the property, FUBAR Properties, LLC (FUBAR Properties), plans to resurface the Site with asphalt pavement as part of Site redevelopment to put the Site to beneficial use with Mr.C's Towing as the occupant. The CDCPG proposes a shallow soil investigation prior to resurfacing to minimize disturbances during use of the property. This Work Plan summarizes proposed soil sampling activities to further delineate the areas that are targeted for shallow soil excavation program as defined in the Soil Remedial Design Report (RDR) for Operable Unit 2 (OU2) (URS, 2007). The shallow soil data will be used to develop a Phase 3 Remedial Action Work Plan for soils as required by Section VI of the 2016 Consent Decree.

Background

SITE BACKGROUND

The Site was formerly occupied by the Cooper Drum Company and others to recondition used 55-gallon drums since the 1940s. The drum reconditioning process consisted of flushing out and stripping the drums for painting and resale. Heavy-duty cleaning called "hard washing" was performed in the northeast portion of the Property (the former hard wash area, or HWA), when necessary. Beginning in 1976, all reconditioning activities took place within the drum processing area (DPA) located in the southwest portion of the Property; incoming drums were stored in the northeast part of the HWA. Rinse

water generated by reconditioning and hard washing activities was collected in concrete pits and trenches. These former drum storage and cleaning processes have been reported to have contaminated the soil and groundwater beneath the Property. Various environmental investigations were conducted at the Site starting in 1984. Site investigations conducted in the 1990s and early 2000s identified the HWA and the DPA as the primary areas where historical releases allegedly occurred. The Site has been undergoing remediation of soil and groundwater since 2011. Only the vacant DPA structure remains at the Property.

The Jervis B. Webb Company and Southern Avenue Industrial Area Superfund sites are north and east of the Site, respectively (Figure 1). Land surface is relatively flat at an approximate elevation of 105 feet above mean sea level. The Property is abutted by parcels owned by Interior Removal Specialists on the west and north, Rayo Avenue on the east, and the Tweedy Learning Center, an adult school operated by Los Angeles Unified School District (LAUSD) on the south (Figure 2).

In June 2001, the U.S. Environmental Protection Agency (USEPA) added the Site to the National Priorities List of hazardous wastes sites requiring a remedial action. A Remedial Investigation/ Feasibility Study Report (RI/FS) was prepared by URS in 2002 that summarized investigation data from 1984 to 2001 (URS, 2002). The RI/FS identified volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and lead in excess of preliminary remediation goals in shallow soils. Supplemental soil sampling was conducted from May 2003 to March 2006 and the results were presented in a technical memorandum (URS, 2006).

A Record of Decision (ROD) defined the Remedial Action and divided the Site into two operable units (USEPA, 2002) based on the depth and media affected in each. Operable Unit 1 (OU1) is limited to groundwater containing Site-related COCs within the Gaspur aquifer at depths between approximately 60 feet below ground surface (bgs) and 120 feet bgs beneath and downgradient of the Site. OU2 includes the unsaturated soil (vadose zone) and saturated soil (perched groundwater) overlying a portion of OU1. The OU1 Remedial Action was divided into two phases including groundwater extraction on the property and the downgradient area north of Southern Avenue (Phase 1) and groundwater remediation south of Southern Avenue and north of McCallum Avenue (Phase 2). The OU2 Remedial Action was divided into Phase 1 including soil vapor extraction (SVE) and dual phase extraction (DPE) and Phase 3 soil excavation.

SOIL REMEDIAL DESIGN REPORT (2007)

The 2007 Soil RDR was prepared by URS and presented the Remedial Design (RD) for OU2 (URS, 2007). The selected Remedial Action for OU2 included a dual phase extraction system for vadose zone soil and perched groundwater, excavation of shallow soil, and institutional controls.

The near surface component of the OU2 RD included soil excavation to address lead, PCB, and PAH contamination present in the HWA and DPA subsurface soil at concentrations exceeding soil cleanup levels (Table 1). Four excavation areas (two in each of the HWA and DPA) to maximum depths up to 5 feet bgs comprise the soil excavation plan in the OU2 RD. Excerpts from the RDR showing the shallow soil sample locations and proposed excavations are included in Appendix A.

The soil excavation program was contingent on completion of DPE remediation of the vadose zone and perched aquifer.

For soils beyond 5 feet bgs with non-VOC impacts, institutional controls will be implemented. The following assumptions in the RDR limit the depth of soil removal to 5 feet bgs:

- Future construction trenching or foundation installation is not expected to exceed 5 feet bgs;
- The vertical extent of PAHs and lead have been defined and it is unlikely that these contaminants will impact groundwater, provided an asphalt cap is in place and infiltration is negligible;
- Assuming excavation will remove contamination to 5 feet bgs, there will be no direct exposure pathways after backfilling the excavation;
- Excavations will not require the demolition of existing structures;
- Excavation below 5 feet bgs is not cost effective; and
- Institutional controls (i.e., land use restrictions) would be put in place to alert any future construction events that may occur below 5 feet bgs.

Soil removal limits were defined by comparing the concentrations of PAHs, PCBs, and lead to the cleanup levels.

Shallow Soil Sampling Plan

To supplement the shallow soil characterization that was defined by the RI, Haley & Aldrich proposes to advance 32 soil borings up to 5 feet bgs as shown on Figure 3. Soil borings will be located approximately 10 feet from original RI sample locations where COCs were detected above preliminary remediation goals from 0.5 to 5 feet bgs. The goal of these soil borings is to further characterize PAH, PCB, and lead impacts in shallow soil and to better define the Phase 3 soil excavation areas. The proposed work activities are summarized below.

PRE-FIELD ACTIVITIES

Haley & Aldrich will complete the following work prior to initiating field activities:

- Haley & Aldrich will mark each boring location with white paint and notify Underground Service Alert (USA) a minimum of 48 hours before any intrusive work.
- The Site-specific Health & Safety Plan (HASP) will be updated prior to initiating field activities. The HASP will describe the procedures for maintaining a safe workplace and will describe the precautions that will be employed by Site workers to protect against potential exposure to chemical and physical hazards. Each field personnel will be required to review and sign the HASP prior to working at the Site. Ambient air will be monitored to obtain breathing zone readings during soil sampling activities and will include dust and total volatile organic concentration monitoring with a photoionization detector. Air monitoring procedures will be detailed in the HASP.

- Each boring location will be located using a global positioning system (GPS) enabled device with 50-centimeter accuracy.
- Notifications to USEPA and the Department of Toxic Substances Control (DTSC) will be completed 2 weeks prior to implementation.

SOIL SAMPLING AND ANALYSIS

Soil samples will be collected from 32 boring locations by a California C-57 licensed drilling contractor using hand auger drilling methods under the supervision of a California Professional Geologist or Engineer. Any concrete encountered at sample locations will be cored through by the drilling contractor using a core drill equipped with a hollow cylindrical drill bit. Soil borings will be advanced to a total depth of 0.5 to 5 feet bgs depending on location. At each sampling location, a 2-inch core sampler lined with a 6-inch stainless-steel sleeve will be driven into the borehole with a slide hammer to collect undisturbed soil samples. Soil at each boring location will be logged using the Unified Soil Classification System. Soil borings will be field screened for VOCs using a handheld photoionization detector (PID). Headspace readings from soil cuttings will be obtained by placing soil in a sealable plastic bag and measuring total volatile organic concentrations after the soil has been allowed to equilibrate for approximately two minutes. The undisturbed soil contained within the 6-inch stainless steel sleeve will be capped, labeled, placed in a sealable bag, and stored in a cooler on ice immediately upon collection. The samples will be transported under chain-of-custody protocol to American Analytics, a California-certified laboratory.

A sampling and analysis plan is included in Table 1 and describes each historical sampling location and the corresponding proposed shallow soil samples. A total of 40 samples will be collected based on historical exceedances of lead, PAH, and PCBs in soil samples to a maximum depth of 5 feet bgs. Soil samples will be analyzed for lead by USEPA Method 6010, PAH by USEPA Method 8310, and PCBs by USEPA Method 8082.

Field equipment that contacts soil including hand augers, soil logging tools, soil sampling implements, and personal protective equipment will be decontaminated or replaced prior to use at each sampling location and depth. The equipment will be decontaminated by washing with a trisodium phosphate-based detergent and tap water followed by two successive rinses with tap water and deionized water.

Quality assurance/quality control (QA/QC) blank samples will be collected and analyzed to ensure there is no cross-contamination during the sample collection and transportation process. QA/QC samples will include the following:

- One equipment blank sample will be collected each day following decontamination of sampling equipment to evaluate the potential for cross-contamination. The equipment blank samples will be collected by pouring distilled water over the decontaminated hand auger equipment. The distilled water will be collected in a glass jar that is appropriate for the analysis being conducted. Equipment blank samples will be analyzed for the specific COC that was sampled prior to decontamination; and
- One trip blank sample consisting of distilled water will be used to evaluate the potential for cross-contamination during transportation to the laboratory.

BOREHOLE ABANDONMENT AND INVESTIGATION DERIVED WASTE

Upon completion, each borehole location will be abandoned by backfilling and compacting the native soil. The surface of each boring will be patched, if necessary, with concrete or asphalt to match the surrounding grade.

Waste generated during field activities will be temporarily stored on-Site in 55-gallon drums pending receipt of analytical test results and waste profiling. The wastes may include soil cuttings from hand auguring activities, water from decontamination procedures, and used personal protective equipment. Waste will be transported and disposed off-site in accordance with applicable regulations by a waste disposal company licensed to handle such wastes. Used personal protective equipment and disposable equipment will be double bagged and placed in a municipal refuse dumpster.

DATA EVALUATION AND REPORTING

Analytical results for soil samples will be tabulated and reported in a Technical Memorandum that will be submitted to the USEPA within 90 days of the completion of field activities. Soil sample results will be used to further assess and potentially update the excavation areas shown in the RDR.

Closing

Please contact Mr. Peter Bennett at 510.879.4547 or Mr. John Lang at 513.325.2732 if you have questions or require additional information regarding this Work Plan.

Sincerely yours,
HALEY & ALDRICH, INC.



Christopher Tsiatsios, P.E. (CA)
Associate Engineer
Program Manager



Peter Bennett, CHG, P.G.
Principal Hydrogeologist
Project Manager

Enclosures:

- Table 1 – Proposed Soil Sampling and Analysis Plan
- Figure 1 – Site Location Map
- Figure 2 – Remedial Parcel and Adjacent Properties
- Figure 3 – Proposed Shallow Soil Sampling Locations
- Appendix A – 2007 Remedial Design Report Excerpts

c: U.S. Environmental Protection Agency, Region 9; Attn: Diane Prend
California Department of Toxic Substances Control; Attn: Ahmad Aboughaida
Tetra Tech, Inc.; Attn: Yohji Ono and Jody Edwards
EHS Support; Attn: John Lang and Nathan Hunt
Cooper Drum Cooperating Parties Group; Attn: Patrick Madej
Jackson Walker, LLP; Attn: Daniel Vineyard
FUBAR Properties; Attn: Mike Welsh
Los Angeles Unified School District; Attn: Anthony Espinoza and Steven Morrill
Leland R. Weaver Library, Site Repository – South Gate Library; Attn: Eileen M. Tokar
City of South Gate Public Works Department; Attn: Chris Castillo
City of South Gate Public Works Department; Attn: Gladis Deras

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2. URS, 2006. Cooper Drum Superfund Site Remedial Design Technical Memorandum for Field Sampling Results. July.

3. URS, 2007. Remedial Design Report for the Cooper Drum Company Superfund Site. September.

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TABLES

TABLE 1
PROPOSED SOIL SAMPLING AND ANALYSIS PLAN
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location	Proposed Sample ID	Proposed Sample Depth (feet bgs)	Proposed Sample Laboratory Analytical Method	Remedial Investigation Sample Exceedance	Exceedance Depth (feet bgs)	2007 RDR Excavation Location
Hard Wash Area	SSB-1	1	Lead by EPA Method 6010	SB-9 (Lead)	1	HWA West
	SSB-2	1	Lead by EPA Method 6010	SB-9 (Lead)	1	
	SSB-3	1	Lead by EPA Method 6010	SB-9 (Lead)	1	
	SSB-4	1	Lead by EPA Method 6010	SB-9 (Lead)	1	
	SSB-5	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-11 (PAH, PCBs)	1	HWA East
	SSB-6	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-11 (PAH, PCBs)	1	
	SSB-7	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-11 (PAH, PCBs)	1	
	SSB-8	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-11 (PAH, PCBs)	1	
	SSB-9	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-20 (PAH, PCBs)	1	
	SSB-10	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-20 (PAH, PCBs)	1	
	SSB-11	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-20 (PAH, PCBs)	1	
	SSB-12	1	PAH by EPA Method 8310 PCBs by EPA Method 8082	SB-20 (PAH, PCBs)	1	
Drum Processing Area	SSB-13	0.5	PAH by EPA Method 8310	SB-13 (PAH)	0.5	DPA West #1
	SSB-14	0.5	PAH by EPA Method 8310	SB-13 (PAH)	0.5	
	SSB-15	0.5	PAH by EPA Method 8310	SB-13 (PAH)	0.5	
	SSB-16	0.5	PAH by EPA Method 8310	SB-26 (PAH)	0.5	
	SSB-17	0.5	PAH by EPA Method 8310	SB-26 (PAH)	0.5	
	SSB-18	0.5	PAH by EPA Method 8310	SB-26 (PAH)	0.5	
	SSB-19	5	PAH by EPA Method 8310	SB-25 (PAH)	5	DPA West #2
	SSB-20	5	PAH by EPA Method 8310	SB-25 (PAH)	5	
	SSB-21	5	PAH by EPA Method 8310	SB-25 (PAH)	5	
	SSB-22	5	PAH by EPA Method 8310	SB-25 (PAH)	5	
	SSB-23	0.5, 5	PAH by EPA Method 8310	SB-31 (PAH)	0.5, 5	DPA East #1
	SSB-24	0.5, 5	PAH by EPA Method 8310	SB-31 (PAH)	0.5, 5	
	SSB-25	0.5, 5	PAH by EPA Method 8310	SB-31 (PAH)	0.5, 5	
	SSB-26	0.5, 5	PAH by EPA Method 8310 Lead by EPA Method 6010	SB-14 (PAH, Lead) SB-27 (Lead)	0.5 (PAH) 5 (Lead)	DPA East #2
	SSB-27	0.5, 5	PAH by EPA Method 8310 Lead by EPA Method 6010	SB-14 (PAH, Lead) SB-30 (PAH) SB-27 (Lead)	0.5 (PAH) 4 (PAH) 5 (Lead)	
	SSB-28	0.5, 5	PAH by EPA Method 8310 Lead by EPA Method 6010	SB-14 (PAH, Lead) SB-30 (PAH) SB-27 (Lead)	0.5 (PAH) 4 (PAH) 5 (Lead)	
	SSB-29	0.5, 5	PAH by EPA Method 8310 Lead by EPA Method 6010	SB-14 (PAH, Lead) SB-27 (Lead)	0.5 (PAH) 5 (Lead)	
	SSB-30	0.5, 5	PAH by EPA Method 8310 Lead by EPA Method 6010	SB-14 (PAH, Lead) SB-27 (Lead)	0.5 (PAH) 5 (Lead)	
	SSB-31	4	PAH by EPA Method 8310	SB-30 (PAH)	4	
	SSB-32	4	PAH by EPA Method 8310	SB-30 (PAH)	4	

NOTES:

[1]: Detection limit higher than cleanup level

PAH = Polycyclic Aromatic Hydrocarbons

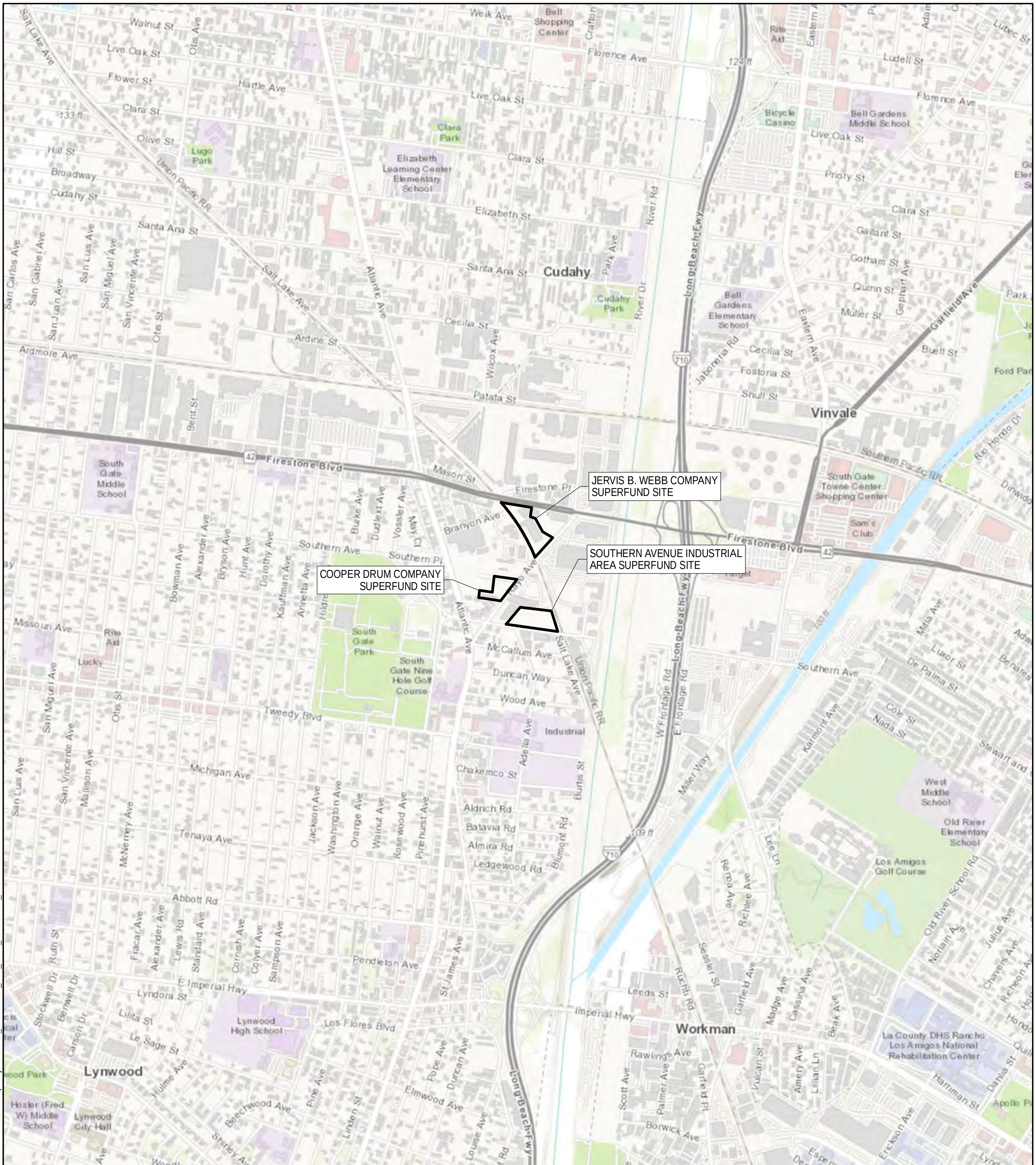
PCB = Polychlorinated Biphenyls

RDR = Remedial Design Report (URS, 2007)

bgs = below ground surface

mg/kg = milligram per kilogram

FIGURES



N

0 2,000 4,000

1 INCH = 2,000 FEET

MAP SOURCE: ESRI

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SITE LOCATION MAP

MARCH 2025

FIGURE 1

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LEGEND

PROPERTY BOUNDARY

PARCEL BOUNDARY

NOTES
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI

N

0 150 300
SCALE IN FEET

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

REMEDIAL PARCEL AND ADJACENT PROPERTIES

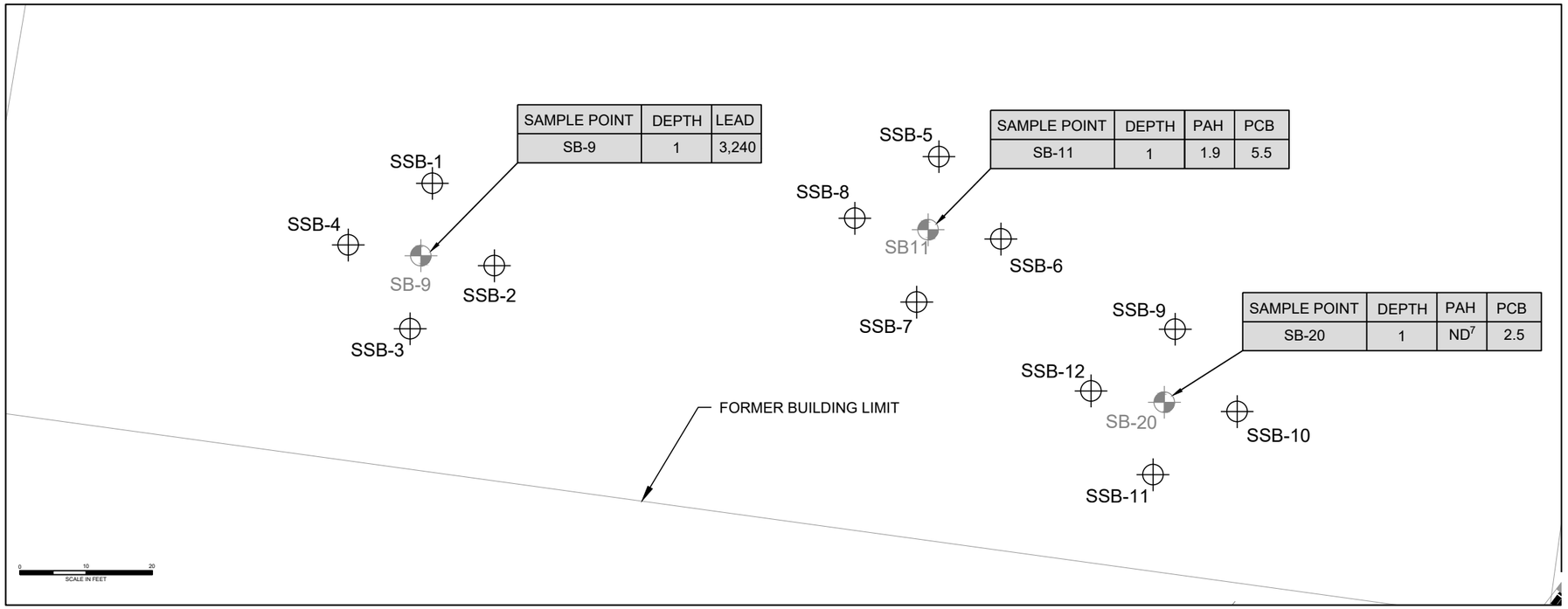
MARCH 2025

FIGURE 2

GIS FILE PATH: G:\38945_CooperDrum\Global\GIS\MapProjects\2023_01\130072_006_0002_REMEDIAL_PARCELS.mxd - USER: dfm - LAST SAVED: 2/9/2023 1:11:36 PM

FORMER HARD WASH AREA

SCALE: AS SHOWN



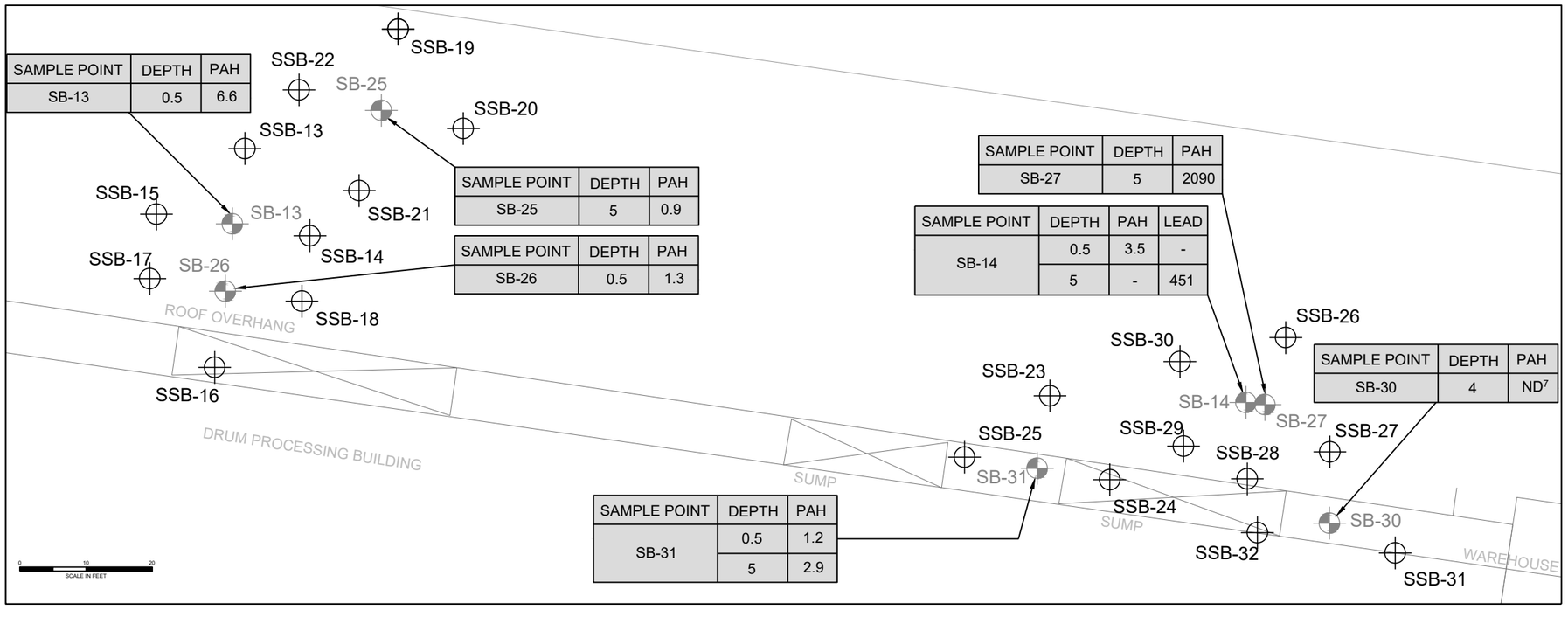
SAMPLE POINT	DEPTH	LEAD
SB-9	1	3,240

SAMPLE POINT	DEPTH	PAH	PCB
SB-11	1	1.9	5.5

SAMPLE POINT	DEPTH	PAH	PCB
SB-20	1	ND[7]	2.5

FORMER DRUM PROCESSING AREA

SCALE AS SHOWN



SAMPLE POINT	DEPTH	PAH
SB-13	0.5	6.6

SAMPLE POINT	DEPTH	PAH
SB-25	5	0.9

SAMPLE POINT	DEPTH	PAH
SB-26	0.5	1.3

SAMPLE POINT	DEPTH	PAH
SB-27	5	2090

SAMPLE POINT	DEPTH	PAH	LEAD
SB-14	0.5	3.5	-
	5	-	451

SAMPLE POINT	DEPTH	PAH
SB-30	4	ND[7]

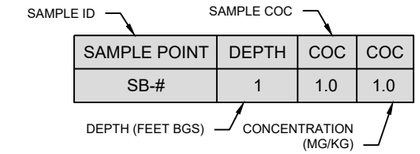
SAMPLE POINT	DEPTH	PAH
SB-31	0.5	1.2
	5	2.9

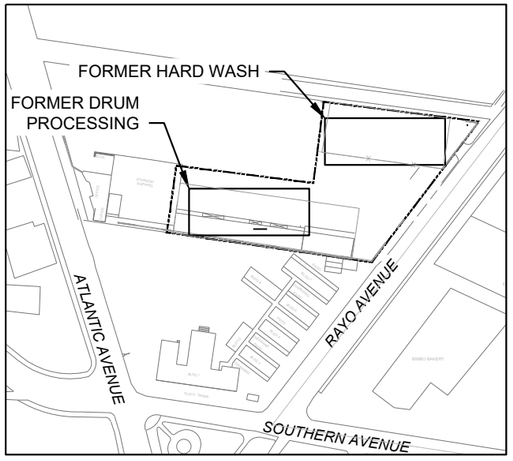
LEGEND

- SITE BOUNDARY
- BUILDING LIMIT
- SB-# — SAMPLE LOCATION WHERE COCS WERE DETECTED ABOVE CLEANUP LEVELS DURING THE REMEDIAL INVESTIGATION
- SSB-# — PROPOSED SOIL SAMPLING LOCATION

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. SOIL BORING LOCATIONS BASED ON INFORMATION PROVIDED BY URS OR CALVADA SURVEYING INC.
3. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
4. PAH = POLYCYCLIC AROMATIC HYDROCARBON.
5. PCB = POLYCHLORINATED BIPHENYLS.
6. MG/KG = MILLIGRAM PER KILOGRAM.
7. DETECTION LIMIT HIGHER THAN CLEANUP LEVEL.
8. COC = CONTAMINANT OF CONCERN.





KEY PLAN

NOT TO SCALE

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

PROPOSED SHALLOW SOIL SAMPLING LOCATIONS

SCALE: AS SHOWN
MARCH 2025

FIGURE 3

NOLAN, JULIAN Printed: 2/26/2025 4:36 PM Layout: HA-FIG-B-L-V
I:\HALEYALDRICH.COM\SHARE\SDG_COMMON\38945_COOPERDRUM\GLOBAL\CAD\38945_006_0009_WELL_POINTS.DWG

APPENDIX A
2007 Remedial Design Report Excerpts

TABLE 2-1

Cleanup Levels for Contaminants of Concern

Medium	Contaminant of Concern	Cleanup Level	Basis for Cleanup Level	Risk at Cleanup Level
Soil (VOCs)	1,1-Dichloroethane (1,1-DCA)	Leachate <MCL[a]	VLEACH modeling	TBD
	1,1-Dichloroethene (1,1-DCE)	Leachate <MCL	VLEACH modeling	TBD
	1,2-Dichloroethane (1,2-DCA)	Leachate <MCL	VLEACH modeling	TBD
	1,2-Dichloropropane (1,2-DCP)	Leachate <MCL	VLEACH modeling	TBD
	1,2,3-Trichloropropane (1,2,3-TCP)	Leachate <PQL	VLEACH modeling	TBD
	Benzene	Leachate <MCL	VLEACH modeling	TBD
	cis-1,2-Dichloroethene (cis-1,2-DCE)	Leachate <MCL	VLEACH modeling	TBD
	trans-1,2-Dichloroethene (trans-1,2-DCE)	Leachate <MCL	VLEACH modeling	TBD
	Tetrachloroethene (PCE)	Leachate <MCL	VLEACH modeling	TBD
	Trichloroethene (TCE)	Leachate <MCL	VLEACH modeling	TBD
	Vinyl chloride	Leachate <MCL	VLEACH modeling	TBD
Soil (nonVOCs)	Aroclor-1254	870 µg/kg	Human health hazard	1 e-05
	Aroclor-1260	870 µg/kg	Human health hazard	1 e-05
	B (a)P-TE [b] – Benzo(a)anthracene – Benzo(a)pyrene – Benzo(b)fluoranthene – Benzo(k)fluoranthene – Chrysene – Dibenz(a,h)anthracene – Indeno(1,2,3-cd)pyrene	900 µg/kg	Background	Background
	Lead	400 mg/kg	Human health hazard	IEUBK Model
Groundwater (VOCs)	1,1-Dichloroethane (1,1-DCA)	5 µg/L	MCL	Cancer risk at 2.6e-06
	1,1-Dichloroethene (1,1-DCE)	6 µg/L	MCL	HI = 0.04
	1,2-Dichloroethane (1,2-DCA)	0.5 µg/L	MCL	Cancer risk at 4.0e-06
	1,2-Dichloropropane (1,2-DCP)	5 µg/L	MCL	Cancer risk at 3.1e-05
	1,2,3-Trichloropropane (1,2,3-TCP)	1 µg/L	PQL [c]	Cancer risk at 6.2e-04
	Benzene	1 µg/L	MCL	Cancer risk at 9.0e-06
	cis-1,2-Dichloroethene (cis-1,2-DCE)	6 µg/L	MCL	HI = 0.23
	trans-1,2-Dichloroethene (trans-1,2-DCE)	10 µg/L	MCL	HI = 0.19
	Tetrachloroethene (PCE)	5 µg/L	MCL	Cancer risk at 1.2e-05
	Trichloroethene (TCE)	5 µg/L	MCL	Cancer risk at 4.9e-06
	Vinyl chloride	0.5 µg/L	MCL	Cancer risk at 2.2e-05
Groundwater (SVOCs)	1,4-Dioxane	6.1 µg/L	PRG[d]	TBD

TABLE 2-1

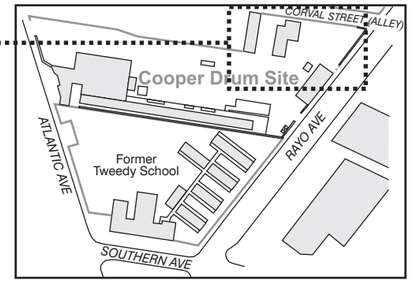
(Continued)

[a] MCLs from Title 22 California Code of Regulation Section 64431 and 64444 unless otherwise specified.
[b] Based on upper tolerance limit (UTL) background benzo(a)pyrene-toxicity equivalent (B(a)P-TE) concentration for southern California PAH data set.
[c] No MCL established for 1,2,3-trichloropropane. The PQL was identified as a remedial goal for 1,2,3-trichloropropane.
[d] Cleanup action level will be reassessed and any revisions will be incorporated into the remedial action.

HI	=	hazard index
IEUBK Model	=	Integrated Exposure Uptake Model for Lead in Children
MCL	=	California primary maximum contaminant level
PRG	=	preliminary remediation goal
PQL	=	Practical quantification limit
SVOC	=	semivolatile organic compound
TBD	=	to be determined
VOC	=	volatile organic compound
µg/L	=	micrograms per liter
µg/kg	=	micrograms per kilogram

CORVAL STREET (ALLEY)

Area Shown in This Figure



N

0 20
SCALE IN FEET

SB-18

Fence (Property Boundary Line)

SB-8

SB-32

SB-10

SB-19

Two-Story Wood Storage Building

Roof Covered Area

SB-23

SB-9

SB-11

Concrete Pad Covered with Awning

SB-20

Concrete Ramp

SB-4

SB-21

SB-22

SB-4A

SB-12

Block Wall (Property Boundary Line)

Curb Line

RAYO AVENUE

Warehouse

East Excavation

Sample Location Where COCs (PAH and PCB) Detected Above Cleanup Levels at 1 ft bgs; COCs Not Detected Above Cleanup Levels at 5 and 10 ft bgs

Initial Excavation Limits to 2.5 ft bgs (Estimated Volume = 277.8 yd^3)

Legend

Sample Locations Where COCs Not Detected Above Cleanup Levels

Acronyms:
bgs = below ground surface
COC = contaminant of concern
ft = feet
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
yd3 = cubic yards

West Excavation

Sample Location Where COCs (Lead) Detected Above Cleanup Levels at 1 ft bgs; COCs Not Detected Above Cleanup Levels at 5 ft bgs

HWA West Initial Excavation Limits to 2.5 ft bgs (Estimated Volume = 111.1 yd^3)

Figure 4-1.
Primary Excavation Area
Former Hard Wash Area

07-04-Cooper-Drum-HWA-site-plan.cdr - LCT 11.27.06 SAC

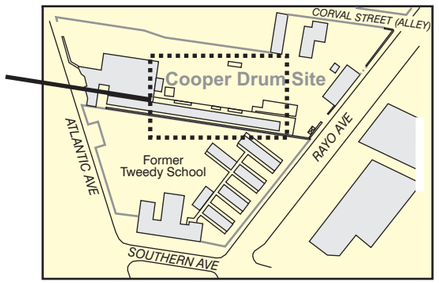
Legend

- Sample Locations Where COCs Not Detected Above Cleanup Levels
- Monitoring Well
- Roof Overhang

Acronyms:
bgs = below ground surface
COC = contaminant of concern
ft = feet
PAH = polycyclic aromatic hydrocarbon
RL = reporting limit
yd3 = cubic yards

West Excavation

- Sample Locations Where COCs (PAH) Detected Above Cleanup Levels at 5 ft bgs; COCs Not Detected Above Cleanup Levels at 10 ft bgs
- Sample Locations Where COCs (PAH) Detected Above Cleanup Levels at 0.5 ft bgs; COCs Not Detected Above Cleanup Levels at 5 ft bgs
- DPA West #1 - Initial Excavation Limits to 2.5 ft bgs (Estimated Volume = 229.2 yd^3)
- DPA West #2 - Initial Excavation Limits to 5 ft bgs (Estimated Volume = 166.66 yd^3)



East Excavation

- Sample Locations Where COCs (Lead) Detected Above Cleanup Levels at 5 and 10 ft bgs; COCs Not Detected Above Cleanup Levels at 0.5, 15, and 15.5 ft bgs
- Sample Locations Where COCs (PAH) Detected Above Cleanup Levels at 0.5 ft bgs; COCs Not Detected Above Cleanup Levels at 5 and 10 ft bgs
- Sample Locations Where COCs (PAH) Detected Above Cleanup Levels at 0.5, 5, and 15 ft bgs; Elevated RLs (PAH) at 10 ft bgs
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- DPA East #1 - Initial Excavation Limits to 5 ft bgs (Estimated Volume = 55.55 yd^3)
- DPA East #2 - Initial Excavation Limits to 5 ft bgs (Estimated Volume = 314.81 yd^3)

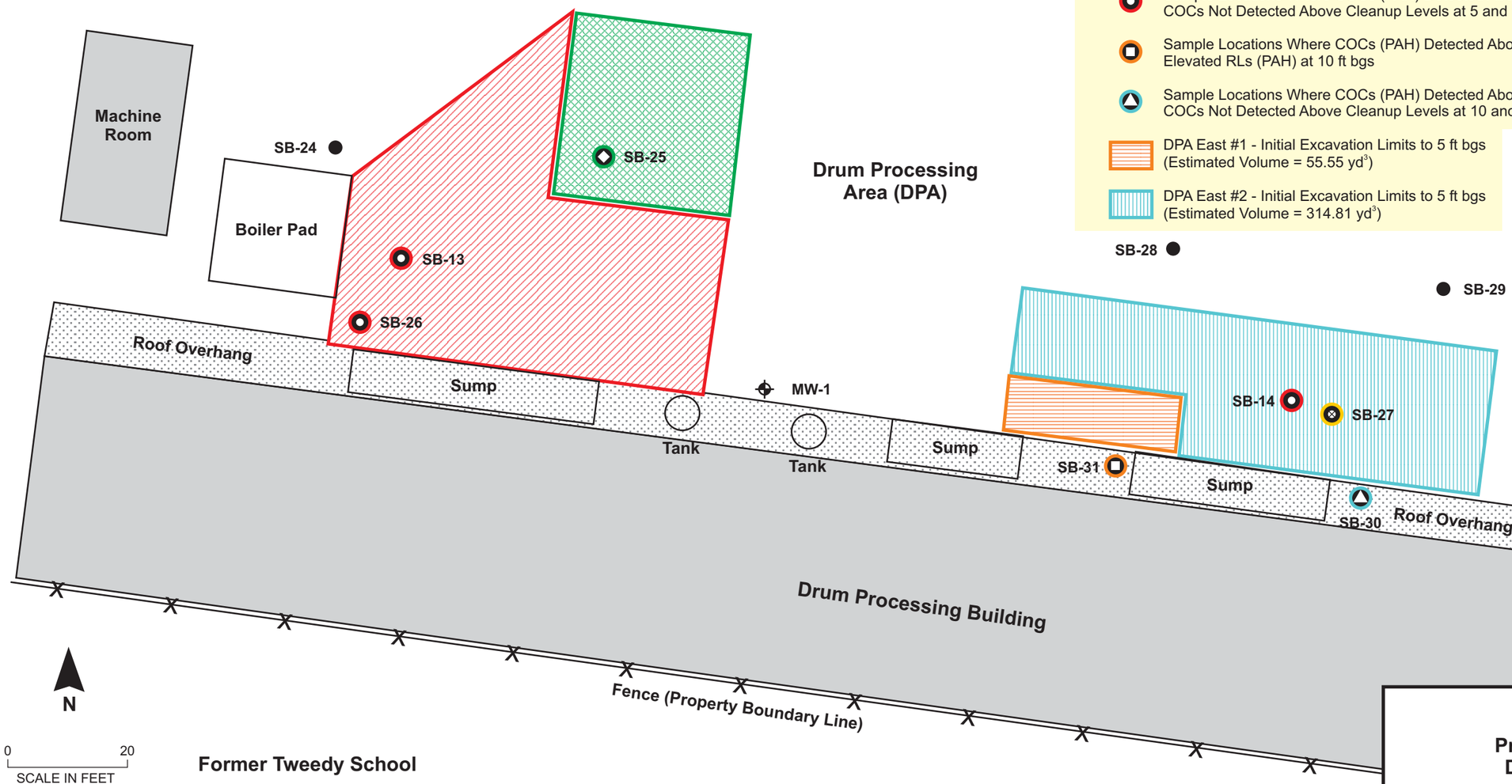


Figure 4-2.
Primary Excavation Area
Drum Processing Area

10-06-Cooper-Drum-DPA-site-plan.cdr - LCT 11.27.06 SAC

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COMBINED GROUNDWATER MONITORING AND PERFORMANCE EVALUATION REPORT SECOND SEMI-ANNUAL 2024 COOPER DRUM COMPANY SUPERFUND SITE 9313 RAYO AVENUE SOUTH GATE, CALIFORNIA

by
Haley & Aldrich, Inc.
Costa Mesa, California

for
Cooper Drum Cooperating Parties Group

File No. 0130072-042-001-03
February 2025

Haley & Aldrich, Inc.
3187 Red Hill Ave
Suite 155
Costa Mesa, CA 92626
714.371.1800

28 February 2025
File No. 0130072-042-001-03

United States Environmental Protection Agency, Region 9
600 Wilshire Boulevard, Suite 940
Los Angeles, California 90017

Attention: Sharissa Singh
Remedial Project Manager, Superfund Division

Subject: Combined Groundwater Monitoring and Performance Evaluation Report
Second Semi-Annual 2024
Cooper Drum Company Superfund Site
9313 Rayo Avenue
South Gate, California

Dear Ms. Singh:

Haley & Aldrich, Inc. is submitting the enclosed *Combined Groundwater Monitoring and Performance Evaluation Report* for the second semi-annual 2024 reporting period on behalf of the Cooper Drum Cooperating Parties Group for the Cooper Drum Company Superfund Site located at 9313 Rayo Avenue, South Gate, California. This report presents the results of the groundwater monitoring program and performance monitoring of the remedial systems from 1 July 2024 31 December 2024.

Please contact Mr. Peter Bennett at 510.879.4547 should you have any questions or require additional information regarding this report.

Sincerely yours,
HALEY & ALDRICH, INC.

Christopher Tsiatsios, P.E.
Associate Engineer
Program Manager

Peter Bennett, CHG, P.G.
Principal Hydrogeologist
Project Manager

Enclosures

c: Environmental Protection Agency, Region 9; Attn: Diane Prend
California Department of Toxic Substances Control; Attn: Ahmad Aboughaida
Tetra Tech, Inc.; Attn: Yohji Ono and Jody Edwards
EHS Support; Attn: John Lang and Nathan Hunt
Cooper Drum Cooperating Parties Group; Attn: Patrick Madej
Jackson Walker, LLP; Attn: Daniel Vineyard
FUBAR Properties, LLC; Attn: Mike Welsh
Los Angeles Unified School District; Attn: Anthony Espinoza and Steven Morrill
Leland R. Weaver Library, Site Repository – South Gate Library; Attn: Eileen M. Tokar
City of South Gate Public Works Department; Attn: Chris Castillo
City of South Gate Public Works Department; Attn: Gladis Deras

https://haleyaldrich.sharepoint.com/sites/CooperDrumCooperatingPartiesGroup/Shared Documents/0130072.Cooper Drum Company Superfund Site/Remediation OMM & Reporting/Deliverables/Performance Evaluation & GW Report/2024 July to Dec/2025_0228_HAI_2nd_Half_2024_GWPER_F.docx

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List of Acronyms and Abbreviations

µg/L	microgram(s) per liter
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2,3-TCP	1,2,3-tricholoropropane
American Analytics	American Analytics, Inc.
bgs	below ground surface
cDCE	cis-1,2-dichloroethene
CDCPG	Cooper Drum Cooperating Parties Group
COC	chemical of concern
Consent Decree	Consent Decree issued by the United States District Court Central District of California, Western Division, Case 2:15-cv-09931
Cooper Drum Site	the Cooper Drum Company Superfund Site
DPA	drum processing area
DO	dissolved oxygen
DPE	dual-phase extraction
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
GAC	granular activated carbon
gpm	gallons per minute
GWMP Update	Groundwater Monitoring Plan Update
Haley & Aldrich	Haley & Aldrich, Inc.
HWA	hard wash area
IWDP	Industrial Wastewater Discharge Permit
LACSD	Los Angeles County Sanitation District
LAUSD	Los Angeles Unified School District
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
MK	Mann-Kendall
MNA	monitored natural attenuation
mS/cm	milliSiemens per centimeter
mV	millivolts
ORP	oxidation-reduction potential
OU1 and OU2	Operable Unit 1 and Operable Unit 2
PCE	tetrachloroethene

List of Acronyms and Abbreviations
(continued)

PER	Combined Groundwater Monitoring and Performance Evaluation Report
PID	photoionization detector
ppmV	parts per million by volume
the Property	a 2.4-acre portion of the Site
PVC	polyvinyl chloride
RAA	Remedial Action Area
Revised VP-14 Area Work Plan	Revised Work Plan for Addressing Soil Vapor at VP-14
ROD	the U.S. Environmental Protection Agency's 27 September 2002 Record of Decision
SAIA	Southern Avenue Industrial Area
SAP	Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) for Groundwater Sampling, Operable Unit 1
SCAQMD	South Coast Air Quality Management District
SCFM	standard cubic feet per minute
Site	the Cooper Drum Company Superfund Site 9313 Rayo Avenue, South Gate, California
SVE	soil vapor extraction
TCE	trichloroethene
tDCE	trans-1,2-dichloroethene
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

1. Introduction and Background

Haley & Aldrich, Inc. (Haley & Aldrich) prepared this *Combined Groundwater Monitoring and Performance Evaluation Report* (PER) on behalf of the Cooper Drum Cooperating Parties Group (CDCPG). This PER was prepared in accordance with the Statement of Work of the Consent Decree entered on 20 April 2016 by the United States District Court Central District of California, Western Division, Case 2:15-cv-09931 (Consent Decree) for the Cooper Drum Company Superfund Site (Cooper Drum Site; the Site) located at 9313 Rayo Avenue (formerly 9316 South Atlantic Avenue) in South Gate, California (Figure 1). This PER summarizes groundwater monitoring, vapor monitoring, and remediation performance for Operable Unit 1 (OU1) and Operable Unit 2 (OU2) during the second semi-annual 2024 reporting period, from 1 July through 31 December 2024.

On 10 July 2024, the CDCPG received a letter from the United States Environmental Protection Agency Region 9 (USEPA) that included comments on the *Combined Groundwater Monitoring and Performance Evaluation Report – Second Semi-Annual 2023,* dated 29 February 2024 (Haley & Aldrich, 2024a). Comments from the Department of Toxic Substances Control (DTSC), dated 12 April 2024, were included as Attachment A to the 10 July 2024 USEPA letter (USEPA, 2024a). A table summarizing the CDCPG responses to the USEPA and DTSC comments was provided to USEPA and DTSC via email on 9 August 2024 (Haley & Aldrich, 2024b). Where applicable, this PER incorporates revisions that address USEPA and DTSC's comments.

1.1 SITE DESCRIPTION

The Site includes a 2.4-acre portion of land (the Property) located at 9313 Rayo Avenue, in South Gate, California, in an urban area of mixed industrial, commercial, and residential uses (Figure 1). The land surface is relatively flat at an approximate elevation of 105 feet above mean sea level. The Property was formerly occupied by the Cooper Drum Company and others to recondition 55-gallon drums. The northern portion of the Property has been owned and operated by drum recycling companies since 1941. Sanborn Fire Insurance maps from 1950 and 1970 show the southern portion of the Property was used as a lumber and coke storage yard and as a plumbing material storage yard, respectively (Sanborn, 1950 and 1970).

In 1971, Cooper Drum Company purchased the northern and southern parcels, and in 1976, expanded drum reconditioning operations into the southern parcel of the Property. The Cooper Drum Company continued to operate the facility until 1992, when the drum reconditioning operations were sold to Waymire Drum Company, who continued to operate the drum recycling facility until June 1996, when the operations were sold to Consolidated Drum Company (URS, 2002). Consolidated Drum performed drum recycling operations through 2003, at which time the drum recycling ended. The Property was used for pallet storage after 2003 and was vacant from 2009 until 2024 when it was acquired by FUBAR Properties, LLC (FUBAR Properties) and occupied by Mr. C's Towing.

The drum reconditioning process consisted of flushing out and stripping the drums for painting and resale. Heavy-duty cleaning called "hard washing" was performed in the northeast portion of the Property (the former hard wash area, or HWA), when necessary. Beginning in 1976, all reconditioning activities took place within the drum processing area (DPA) located in the southwest portion of the Property; incoming drums were stored in the northeast part of the HWA. Rinse water generated by reconditioning and hard washing activities was collected in concrete pits and trenches. These former

drum storage and cleaning processes have been reported to have contaminated the soil and groundwater beneath the Property. Site investigations conducted in the 1990s and early 2000s identified the HWA and the DPA as the primary areas where historical releases allegedly occurred. Figure 2 shows the locations of the former HWA and former DPA; only the vacant DPA structure remains at the Property.

FUBAR Properties made some improvements to the property during the reporting period, including: building a new fence along Rayo Avenue, removing vegetation, and leveling the surface with aggregate base. Redevelopment of the Property is being coordinated with the USEPA and the City of South Gate.

1.2 OPERABLE UNITS

In June 2001, the USEPA added the Site to the Superfund National Priorities List of hazardous waste sites requiring remedial action. The 27 September 2002 Record of Decision (ROD) defined the Remedial Action and divided the Site into the following two operable units (USEPA, 2002):

- OU1 is limited to groundwater containing Site-related chemicals of concern (COCs) within the Gaspur aquifer; and
- OU2 is limited to Site-related COCs in unsaturated soil (vadose zone) and saturated soil (perched groundwater) overlying a portion of OU1.

OU1 is divided into two Remedial Action Areas ([RAAs]; Figure 2). The Phase 1 RAA includes the Property and the downgradient area north of Southern Avenue. The Phase 2 RAA includes the area south of Southern Avenue and north of McCallum Avenue. The Remedial Action is summarized in the following table.

Remedial Action	Phase 1	Phase 2 and 3	Status
OU1 (groundwater remediation)	Groundwater extraction north of Southern Avenue	Groundwater extraction or monitored natural attenuation (MNA) south of Southern Avenue (Phase 2)	Phase 1 construction has been completed; operation and monitoring has been ongoing since 2012. Phase 2: MNA evaluation completed in 2018.
OU2 (source removal)	Soil vapor extraction (SVE) and dual-phase extraction (DPE)	Soil excavation (Phase 3)	Phase 1 construction has been completed; operation and monitoring started in 2011. The SVE/DPE has been terminated over much of the Site with USEPA approval, and the SVE/DPE wells and vapor monitoring points have been decommissioned, except for SVE-11, SVE-12, DPE-7, DPE-13, and VP-14. Phase 3 soil excavation has not started, pending completion of Phase 1.

1.3 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The Site is located within the Central Basin of the Los Angeles Coastal Plain, south of the forebay area and approximately ¼-mile west of the Los Angeles River and 1 mile north of its confluence with the Rio Hondo River. A predominantly fine-grained unit referred to as the Bellflower unit underlies the Site to approximately 60 feet below ground surface (bgs) and is predominantly unsaturated. The water table occurs within the Gaspur aquifer at approximately 65 feet bgs. The Gaspur aquifer is also referred to as the base of the Dominguez chronostratigraphic unit in more recent geological reports of the Los Angeles Basin and comprises a fining-upward sequence of sands and gravels deposited during the Holocene epoch as alluvial fan and stream channel deposits associated with the Los Angeles River (Paulinski, 2021). The Exposition aquifer underlies the Gaspur aquifer, where water-bearing zones of the Exposition aquifer generally occur at depths greater than 120 feet bgs in the Site vicinity. The Exposition aquifer is referred to as the Mesa chronostratigraphic sequence in more recent geological reports of the Los Angeles Basin and comprises a fining-upward sequence of alluvial fan and flood basin deposits, with a sandy base deposited in fluvial channels in the deeper portions of the unit, and with silts and clays "capping" the unit at the unconformable contact with the overlying Dominguez unit (Paulinski, 2021).

A summary of the geologic and hydrogeologic conditions at the Site is provided below:

- OU2 includes unsaturated soil and perched groundwater above OU1 within the Bellflower unit.
- The Bellflower unit extends from ground surface to a depth of approximately 60 feet bgs, where it contacts the Gaspur aquifer and is primarily composed of recent floodplain and aeolian deposits of clay and silt (California Department of Water Resources [DWR], 1961).
- A prominent layer of silty sand that historically contained perched groundwater is present within the Bellflower unit from approximately 32 to 40 feet bgs; perched groundwater has also been encountered in deeper sand zones to depths of approximately 48 feet bgs. Since 2015, no perched groundwater has been present in OU2 after approximately three years of perched groundwater removal by 14 DPE wells.
- OU1 is contained entirely within the Gaspur aquifer. As noted, the Gaspur aquifer comprises a heterogeneous package of alluvial sands, gravels, silts, and clays associated with sedimentation along the ancestral Los Angeles River (DWR, 1961). Within the study area, the base of the Gaspur aquifer is interpreted at depths between 110 and 120 feet bgs.
- The Gaspur aquifer has been divided into three depth intervals for the groundwater monitoring program, herein referred to as the shallow Gaspur, intermediate Gaspur, and lower Gaspur aquifer. The depth to water ranged from approximately 59 to 67 feet bgs across the Site in November 2024. While the lateral hydraulic gradient has varied temporally and spatially, it has been consistently toward the south.
- The Exposition aquifer[1] is hydraulically separated from the overlying Gaspur aquifer by fine-grained, low-permeability sediments at all locations monitored across the Site.

[1] The Exposition aquifer is not part of OU1. However, per the Consent Decree, the CDCPG monitors five Exposition monitoring wells (MW-16R, MW-18R, MW-26, MW-32, and MW-55R) as part of the routine groundwater monitoring program.

1.4 CHEMICALS OF CONCERN AND CLEANUP GOALS

The COCs for soil vapor (OU2) are:

- tetrachloroethene (PCE),
- trichloroethene (TCE),
- cis-1,2-dichlorothene (cDCE),
- trans-1,2-dichloroethene (tDCE),
- 1,1-dichloroethane (1,1-DCA),
- 1,2-dichloroethane (1,2-DCA),
- vinyl chloride,
- 1,1-dichloroethene (1,1-DCE),
- 1,2-dichloropropane,
- 1,2,3-trichloropropane (1,2,3-TCP), and
- benzene.

For remediation purposes, the same COCs apply to OU1 groundwater, with the addition of 1,4-dioxane. Groundwater cleanup levels and soil vapor screening levels for each COC are provided in Table 1.

1.5 OTHER NEARBY SUPERFUND SITES

The Jervis Webb Superfund site and Southern Avenue Industrial Area (SAIA) Superfund site are north and east of the Cooper Drum Site, respectively, as shown in Figure 1. Many of the COCs impacting groundwater at and near the Cooper Drum Site are the same as those associated with historical releases at these other nearby Superfund sites (e.g., TCE, cDCE, 1,4-dioxane, 1,2,3-TCP, 1,1-DCA, and 1,2-DCA, among others). Remedial investigations conducted on behalf of USEPA reported TCE and cDCE concentrations in the Gaspur aquifer ranging up to 25,000 micrograms per liter (µg/L) and 17,000 µg/L, respectively, at the Jervis Webb site, and 7,400 µg/L and 9,100 µg/L, respectively, at the SAIA site. These concentrations are orders of magnitude higher than the maximum historical TCE and cDCE concentrations at the Cooper Drum Site, which were approximately 1,000 µg/L; the current maximum TCE and cDCE concentrations on the Cooper Drum Site are approximately 3.7 µg/L and 67 µg/L, respectively.

In December 2022, the CDCPG voluntarily sampled monitoring wells for the Jervis Webb and SAIA sites as described in the *Second Semi-Annual 2022 PER* (Haley & Aldrich, 2023a). This voluntary supplemental sampling event allowed for a broader view of the distribution of COCs upgradient and cross-gradient of the Cooper Drum Site and provides context for Site-related COCs against a backdrop of higher concentrations of the same COCs at the other two Superfund sites. The following observations are based on the interpretation of the data from this voluntary supplemental sampling event.

- Maximum TCE and cDCE concentrations in the Gaspur aquifer at the Cooper Drum Site are approximately two orders of magnitude lower than maximum concentrations of TCE and cDCE at the Jervis Webb and SAIA sites.

- Select COCs, including 1,4-dioxane and 1,2,3-TCP ranging up to 20 µg/L and 170 nanograms per liter, respectively, were present in the Gaspur aquifer upgradient of both the Cooper Drum and Jervis Webb sites.
- The "Atlantic Avenue Plume" identified in the *SAIA Remedial Investigation Report* (Gilbane, 2019) continues to be present in the vicinity of monitoring well MW-56.

1.6 REMEDIAL SYSTEMS OVERVIEW

Site remedial activities have been ongoing for over 12 years, beginning in 2011 with SVE, followed by DPE and groundwater extraction in 2012. The goal of the DPE system was to remove COC-impacted perched groundwater from OU2 and extend the depth of SVE vapor mass recovery in the unsaturated zone, while the groundwater extraction system was designed to remove COC-impacted groundwater from within the Gaspur aquifer and provide hydraulic control of groundwater (within the Phase 1 RAA) originating from the Property.

2. OU1 Performance Evaluation

2.1 OU1 REMEDIAL SYSTEM OVERVIEW

2.1.1 Groundwater Extraction

The Phase 1 OU1 groundwater extraction well network includes the following extraction locations screened at various depths within the Gaspur aquifer:

- On-Property extraction wells EW-4 and PTW-2;
- EW-A (constructed at a 45-degree angle from vertical, starting at the southeastern corner of the Property and terminating below the eastern side of Rayo Avenue); and
- Three off-Property extraction wells (EW-5, EW-7A, and EW-7B) located across Rayo Avenue (Figure 2).

As discussed in the *Combined Groundwater Monitoring and Performance Evaluation Report, Second Semi-Annual 2023* (Haley & Aldrich, 2024a), the specific capacity of extraction well EW-5 declined substantially due to declining water levels such that continued operation was no longer feasible. Simulations using the updated groundwater flow model based on 2023 hydraulic conditions showed that a combined extraction rate of approximately 11 gallons per minute (gpm) from extraction wells EW-4, EW-A, EW-7A, EW-7B, and PTW-2 could achieve comparable hydraulic performance without operating EW-5 (Haley & Aldrich, 2024a). With this change, EW-5 was taken offline and not operated during the reporting period. A groundwater flow model update and evaluation of future extraction network operations is being prepared per USEPA comments received on 8 November 2024 and the technical meeting that was conducted on 12 December 2024.

2.1.2 Treatment

OU1 extraction well influent is routed to two 1,000-gallon holding tanks connected in parallel and then discharged to the sanitary sewer under an Industrial Wastewater Discharge Permit (IWDP) from the Los Angeles County Sanitary District (LACSD) dated 19 September 2024 that specifies a maximum average discharge rate of 17,000 gallons per day and a peak flow rate of 17 gpm. The discharge is sent to the Joint Water Pollution Control Plant in Carson, California, which has a wastewater treatment capacity of 400 million gallons per day.

Periodic operation and maintenance visits were performed on behalf of the CDCPG during the reporting period to observe system performance, optimize operational settings, collect field readings, and collect samples for laboratory analysis. Historical analytical results for groundwater treatment system samples are provided in Table 2. Extracted groundwater flow totals, influent concentrations, and estimated mass removal rates for the groundwater treatment system are summarized in Table 3.

2.1.3 System Uptime

The groundwater extraction system operated nearly continuously during the reporting period (approximately 99 percent operating time), with approximately 55 hours of downtime for extraction well maintenance and system piping modifications.

2.1.4 System Influent

Extraction well influent from EW-4, EW-7A, EW-7B, EW-A, and PTW-2 was routed into two 1,000-gallon holding tanks connected in parallel and then discharged to the sanitary sewer. The IWDP discharge limits for volatile organic compounds (VOCs) and semi-volatile organic compounds were met during the reporting period.

2.1.5 Flow Rates

The average groundwater extraction flow rates for individual extraction wells are provided in Table A-4 of Appendix A. Average flow rates were estimated by subtracting flowmeter (cumulative flow) measurements between readings and dividing by the total number of hours during the period. The average extracted flow rate calculated from the groundwater extraction system was 11.06 gpm during the reporting period, which is within 1 percent of the target extraction rate of approximately 11 gpm.

Individual flow totalizers at EW-7A, EW-7B, and PTW-2 operated intermittently during the reporting period resulting in potentially inaccurate average flow rates that are reported in Table A-4.

2.1.6 System Maintenance

Maintenance performed on the groundwater extraction system during the reporting period included:

- EW-7A was offline from 6 August to 4 September 2024 for conveyance piping and flow totalizer maintenance;
- Flow totalizer maintenance was performed for wells EW-4, EW-7A, EW-7B, EW-A, and PTW-2 on 3 October 2024;
- Flow totalizer maintenance was performed for wells EW-4, EW-7A, EW-7B, EW-A, and PTW-2 on 11 November 2024;
- EW-4, EW-7A, EW-7B, and PTW-2 were offline beginning 25 November 2024 for well development, conveyance piping maintenance, and flow totalizer maintenance:
  - EW-7B was restarted on 26 November 2024;
  - EW-4 was restarted on 27 November 2024; and
  - Pumps in wells PTW-2 and EW-A were replaced on 27 November 2024 and the wells were restarted on 2 December 2024.
- EW-4, EW-7A, EW-7B, EW-A, and PTW-2 were offline 10 through 11 December 2024 for effluent piping modifications, replacement of system flowmeter, and flowmeter calibration.

2.2 GROUNDWATER MONITORING

The groundwater monitoring event for the second semi-annual reporting period was conducted in November 2024. Groundwater monitoring was conducted in accordance with the *Groundwater Monitoring Plan* (AMEC, 2011a), *Sampling and Analysis Plan for Groundwater Sampling, Field Sampling Plan and Quality Assurance Project Plan, Operable Unit 1* ([SAP]; AMEC, 2011b), the *First Semi-Annual 2016 Groundwater Monitoring Report and Groundwater Monitoring Plan Update* ([GWMP Update]; Haley & Aldrich, 2016), and the May 2022 *Sampling and Analysis Plan, Addendum No. 1*, which added low-level 1,2,3-TCP analysis via SRL Method 524 SIM (Haley & Aldrich, 2022a). Well construction

information and sampling frequency for each well are summarized in Table 4; monitoring and extraction well locations and the OU1 RAAs are shown on Figure 2. As summarized in Table 4, 54 wells are currently sampled on a semi-annual basis, and an additional 15 wells are sampled annually as part of the second semi-annual event for the Site. In addition, five monitoring wells screened in the Exposition aquifer are used to monitor groundwater below OU1.

2.2.1 Field Methods

Haley & Aldrich retained Blaine Tech Services, Inc. to gauge and sample the monitoring wells. Well gauging was conducted using an electronic water-level indicator (sounder). Well gauging and sampling field records are included as Appendix B. Monitoring wells were sampled using low-flow purging and sampling methods in accordance with the GWMP Update and the SAP. During low-flow purging of each well, dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, pH, specific electrical conductance, and turbidity were measured using a YSI Pro Plus water quality meter and flow-through cell and monitored for stabilization prior to sample collection. Groundwater samples were collected, labeled, placed in an ice-filled cooler, and shipped under standard chain of custody to American Analytics, Inc., (American Analytics) a California-certified laboratory, for VOC analysis using USEPA Method 8260B, 1,4-dioxane using USEPA Method 8270C-isotope dilution, and dissolved hydrocarbon gases by Method RSK-175. American Analytics subcontracted the low-level 1,2,3-TCP analysis via SRL Method 524 SIM to Weck Laboratories, Inc.

Purged groundwater and decontamination water were temporarily stored in 55-gallon drums and processed through the groundwater treatment system consisting of two 3000-pound liquid-phase granular activated carbon (GAC) vessels in series. Effluent from the groundwater treatment system is combined with the extracted groundwater flow and discharged to two equalization tanks. Water is then discharged to the LACSD sampling location via gravity feed before connecting to the permitted sewer connection. Quality assurance/quality control procedures were followed during sampling activities in accordance with the SAP.

2.2.2 Deviations from the Sampling Plan

Shallow Gaspur aquifer monitoring wells MW-2A, MW-23A, MW-31A, MW-33A, and MW-59A were dry, consistent with recent sampling events, and could not be sampled. PTW-2 was not sampled during the November 2024 sampling event due to well maintenance activities.

2.3 GROUNDWATER DEPTH AND ELEVATION

Groundwater elevations were calculated based on the depth to groundwater in monitoring wells and the surveyed top-of-casing elevation (feet above North American Vertical Datum of 1988) and are provided in Table 5. During the reporting period, water levels increased by approximately 3 feet in all five Exposition monitoring wells and 1.4 feet in the Gaspur monitoring wells. Between 1998 and 2023, water levels steadily declined in the Gaspur and Exposition aquifers by more than 20 feet; however, the water levels stabilized in 2023 and have risen by an average of 3 feet since May 2023 (Appendix C).

The water table occurs beneath the base of the Bellflower unit, indicating unconfined conditions within the Gaspur aquifer. During the November 2024 event, depth to groundwater beneath the Property was approximately 65 feet bgs, below the bottom of the well screens for shallow Gaspur monitoring wells MW-2A, MW-23A, MW-31A, MW-33A, and MW-59A.

2.4 HYDRAULIC GRADIENT AND GROUNDWATER FLOW DIRECTION

Groundwater elevations for the Gaspur aquifer are provided on Figure 3.[2] The groundwater elevations for co-located lower Gaspur and Exposition aquifer wells are shown on Figure 4. Water level elevation versus time plots (hydrographs) are provided in Appendix C.

2.4.1 Horizontal Gradients

The water level charts for well clusters provided in Appendix C illustrate that water level elevations within the shallow, intermediate, and lower Gaspur are similar, with only small differences (0.43 foot or less); overall trends in water level elevations also track together within the Gaspur aquifer. These observations indicate that overall horizontal flow directions within the shallow, intermediate, and lower depths of the Gaspur aquifer are similar. Figure 3 shows a horizontal hydraulic gradient direction that generally varies from east and south in the Gaspur aquifer during the reporting period. The hydraulic gradient was notably steeper beneath the Property, approximately 0.004 foot of vertical drop per foot of lateral distance, compared to 0.0002 foot per foot in the Phase 2 RAA. The steeper gradients beneath the Property likely reflect lower hydraulic conductivity of the Gaspur aquifer sediments in this area and/or the influence of groundwater extraction. Due to well maintenance, the extraction network was not operating at target flow rates when the wells were gauged. Specifically, extraction well PTW-2 was offline during the groundwater monitoring event due to well maintenance and EW-4, EW-7A, and EW-7B were not operating at target flow rates.

2.4.2 Vertical Gradients

Vertical gradients for the Gaspur aquifer are summarized in Table 6. Figure 3 shows the vertical gradient direction at different well pairs within the Gaspur aquifer, with upward gradients and downward gradients being relatively evenly distributed across the Site. Vertical gradients in co-located shallow, intermediate, and lower Gaspur monitoring wells ranged from -0.0181 to +0.0480 foot per foot in November 2024 (Table 6). This variability indicates that groundwater flow within the Gaspur is generally horizontal with some upward and downward flow potential in certain areas.

The persistent, widespread, relatively large head difference (approximately 1.8 to 2.2 feet in November 2024) between the Gaspur and Exposition aquifers illustrates that the laterally-extensive, fine-grained aquitard at the Site hydraulically separates these aquifers. Steeper downward vertical gradients observed in Exposition monitoring wells ranged from 0.0402 to 0.0741 foot per foot in November 2024 (Table 6) and are indicative of a zone of lower hydraulic conductivity (i.e., aquitard) separating the Gaspur and Exposition aquifers. Vertical gradients for Lower Gaspur and Exposition wells are presented in Figure 4 and have decreased compared to prior years, due to the faster rate of water level increase in the Exposition Aquifer, which is confined by an aquitard, compared to the Gaspur aquifer, which is currently unconfined.

[2] While posted, the extraction well pumping water level elevations were not used for kriging in Figure 3 because well losses in the extraction wells result in a lower water level elevation in the well compared to the adjacent aquifer, and the use of these data would therefore overestimate the influence of the extraction wells on water levels in these figures. The water level contours were interpreted based on a combination of kriging observed water levels in monitoring wells, with manual adjustments made to contours in the vicinity of the extraction wells based on the groundwater flow model simulated heads and flow lines.

2.5 GROUNDWATER MONITORING WELL SAMPLING RESULTS

Water quality parameters are summarized in Table 7. Analytical results are summarized in Tables 8 and 9. Box plots showing historical water quality field parameters are included as Appendix D and laboratory reports are included as Appendix E.

2.5.1 Water Quality Parameters

Groundwater quality field parameters measured during the reporting period are summarized in Table 7 and historical water quality field parameters are shown in box plots as Appendix D. Specific electrical conductance ranged from 0.218 to 6.09 milliSiemens per centimeter (mS/cm), with a median of 2.70 mS/cm, indicating a relatively wide range within an overall high total dissolved solids content in groundwater. The sample pH ranged from 6.6 to 7.7, which is near neutral and not inhibitory for naturally occurring biodegradation.

In response to USEPA comments provided on 10 July 2024, a broader discussion of the DO and ORP values is expanded upon herein.

For the Gaspur aquifer monitoring wells upgradient of the Site:

- The November 2024 DO values ranged from 0.42 to 0.75 milligrams per liter (mg/L). No outlier values were identified during this reporting period.
- The November 2024 ORP values ranged from -173.5 to -89.6 millivolts (mV). No outlier values were identified during this reporting period.
- The groundwater conditions upgradient of the Site appear to be anaerobic to weakly aerobic based on the DO values below 1.5 mg/L and ORP values in the -100 to +100 mV range.

For the Gaspur aquifer monitoring wells in the Phase 1 RAA:

- The November 2024 DO values ranged from 0.42 to 5.48 mg/L. The November 2024 DO values at MW-2B, MW-22, MW-59C, and MW-60A are considered outliers as highlighted in Table 7[3] and identified in Appendix D. These DO values exceed the typical historical DO values at these wells and appear to be measurement errors.
- The November 2024 ORP values ranged from -158.3 to +68.9 mV. The November 2024 ORP value of -0.2 at MW-2C is considered an outlier as highlighted in Table 7 and shown in Appendix D. The ORP value exceeds the typically negative historical ORP values in this well and may be related to the ORP measurement or transcription errors during sampling.
- Excluding the outlier values, the groundwater conditions in the Phase 1 RAA appear to be anaerobic based on the DO values below 1 mg/L and negative ORP values.

For the Gaspur aquifer monitoring wells in the Phase 2 RAA:

- The November 2024 DO values ranged from 0.68 to 9.96 mg/L. The November 2024 DO values for MW-24, MW-36, and MW-37 are considered outliers as highlighted in Table 7 and identified

[3] Outlier values for DO and ORP data are identified in box plots generated on Minitab Version 21.4.3. The analysis utilized historical data spanning from June 2012 to May 2024 for each well. Outlier = 1.5 x interquartile range + 3rd quartile value. Measurements with values equal to or higher than the outlier value are considered outliers.

in Appendix D. These DO values exceed the typical historical DO values at these wells and appear to be from measurement errors during sample collection.

- The November 2024 ORP values ranged from -134.8 to -29.4 mV. No outlier values were identified during this reporting period.
- Excluding the outlier values, the groundwater conditions in the Phase 2 RAA appear to be anaerobic based on the DO values below 1 mg/L and low to negative ORP values.

For the Exposition aquifer monitoring wells:

- The November 2024 DO values ranged from 0.46 to 4.32 mg/L. The DO value of 4.32 mg/L reported for MW-26 is considered an outlier, as it greatly exceeds the typical historical DO values at MW-26 (e.g., December 2023, DO was 0.18 mg/L) and likely indicates measurement errors during sample collection.
- The November 2024 ORP values ranged from -199.5 to +68.9 mV. No outlier values were identified during this reporting period.
- Excluding the outlier values, the groundwater conditions in the Exposition aquifer appear to be anaerobic based on the DO values below 1 mg/L and negative ORP values.

Based on the discussion above, anaerobic groundwater conditions prevail throughout the Gaspur and Exposition aquifers.

2.5.2 Chemicals of Concern in Groundwater

The analytical data for the 12 COCs in groundwater and dissolved hydrocarbon gases are summarized in Table 8 and Table 9, respectively. Haley & Aldrich performed an USEPA Region 9 Tier 2 data quality review of the groundwater data with a Tier 3 data quality review on 10 percent of the data. The data quality usability report is provided in Appendix F and summarized in Table 10. Overall, the data generated during the reporting period were acceptable and suitable for decision-making purposes.

Figures 5 through 8 show TCE, cDCE, 1,4-dioxane[4], and 1,2,3-TCP concentrations for the shallow Gaspur, intermediate Gaspur, lower Gaspur, and the Exposition aquifers, respectively, for groundwater samples collected during the reporting period.

Figures 9 through 11 present the most recent groundwater concentration data versus the maximum historical detected TCE, cDCE, and 1,4-dioxane concentrations for OU1 monitoring wells located upgradient, in the Phase 1 RAA, and in the Phase 2 RAA, respectively. These figures also illustrate which wells are above or below the TCE and/or cDCE cleanup level. Appendix G includes COC concentration trend plots over time for individual monitoring wells and extraction wells. The Mann-Kendall (MK) concentration trend analysis data for OU1 groundwater monitoring wells are summarized in Table 11.

The primary COCs in groundwater have historically been TCE and its breakdown products, cDCE, and 1,4-dioxane, although TCE has generally been below its cleanup level for some time. More recently, vinyl chloride concentrations have been increasing as cDCE concentrations have been decreasing at several wells, which is an indication of natural biodegradation processes (e.g., MW-4B, MW-17, EW-8, MW-28,

[4] Per the Consent Decree, a cleanup level for 1,4-dioxane has not yet been established and will be determined based on a future decision document promulgated by the USEPA.

MW-29, MW-30, MW-37, MW-54, MW-59B, MW-61B, and MW-64B). PCE was not detected above the laboratory reporting limit during the reporting period. Other COCs detected in groundwater during the reporting period include:

- benzene;
- tDCE;
- 1,1-DCE;
- 1,1-DCA;
- 1,2-DCA; and
- 1,2,3-TCP.

TCE concentrations in the Gaspur monitoring wells are either non-detect or below the cleanup level of 5 µg/L, in part based on the in-situ biotransformation of TCE to cDCE. The highest TCE, cDCE, and 1,4-dioxane concentrations in the Gaspur aquifer (Phase 1 and Phase 2 RAAs) were an estimated concentration of 1.4 µg/L (MW-22), 75 µg/L (MW-4B), and 10 µg/L (MW-33B) during the reporting period. The highest historical concentrations of these three COCs were 1,200 µg/L (MW-33A), 840 µg/L (MW-59A), and 630 µg/L (MW-33A; now dry), illustrating an approximate one to three order of magnitude decline in maximum concentrations for these COCs over time at the Site.

In general, the current TCE, cDCE, and 1,4-dioxane concentrations within the Phase 1 and Phase 2 RAAs are relatively low in the Gaspur aquifer, with mean concentrations of 0.72 µg/L, 16.2 µg/L, and 4.2 µg/L and median concentrations of 0.63 µg/L, 10 µg/L, and 3.2 µg/L, respectively, during the reporting period (these statistics are for detections only and exclude the upgradient Gaspur wells). These mean and median concentrations are similar to the COCs detected in the Gaspur aquifer upgradient of the Property, as discussed in Section 2.5.3 below.

2.5.3 Upgradient Monitoring Wells

During the reporting period, surface modifications were made to monitoring wells MW-63, MW-64A, and MW-64B to accommodate changes in the surrounding grade. Following the completion of the surface modifications, the monitoring wells were resurveyed. The updated survey elevations are shown in Table 4.

Ketones (acetone and 2-butanone) were detected in MW-64B during the May 2024 sampling event as a result of solvent cement used by the adjacent property owner (IRS Demo) to affix a temporary polyvinyl chloride (PVC) pipe (stickup) to the top of the well casing for enhanced visibility during grading work. The temporary PVC pipe was removed prior to completing the surface well modifications. Ketones were not detected in MW-64B during the November 2024 sampling event.

The following observations pertain to groundwater monitoring wells immediately upgradient[5] of the Phase 1 OU1 RAA, as shown in Figures 5 through 7.

- 1,4-dioxane was detected in MW-19, MW-23, MW-57A, MW-58, MW-63, and MW-64A at concentrations ranging up to 9 µg/L (MW-19 and MW-58);

[5] Monitoring wells MW-19, MW-23, MW-23A, MW-23B, MW-57A, MW-57B, MW-58, MW-63, MW-64A, and MW-64B.

- TCE was detected in shallow Gaspur wells MW-19 and MW-23 during the reporting period at a concentration of 2.3 µg/L and 2.6 J (duplicate) µg/L, respectively; cDCE was detected in the shallow, intermediate, and lower Gaspur aquifer samples with concentrations ranging up to 26 µg/L (MW-19);
- As shown in Table 8, upgradient Gaspur monitoring wells MW-57A, MW-63, MW-64A, and MW-64B had benzene detections (among other COCs) at concentrations up to 21 µg/L (MW-64A); and
- 1,2,3-TCP was detected in upgradient monitoring wells MW-19, MW-23, MW-57B, and MW-64B at concentrations ranging up to 0.082 µg/L (at MW-19); all the detected concentrations were above the California Maximum Contaminant Level (MCL) of 0.005 µg/L.

MK analysis for wells immediately upgradient (Table 11) indicate increasing trends at MW-23, MW-23B, and MW-64A for total ethenes.[6] The MK analysis also indicates increasing trends for 1,4-dioxane at upgradient monitoring wells MW-19, MW-23, and MW-64A.

2.5.4 OU1 - Phase 1 RAA Monitoring Wells

The following observations pertain to groundwater monitoring wells in the Phase 1 RAA as shown in Figures 5 through 7 and Figure 10.

- TCE concentrations were either non-detect or below the cleanup level of 5 µg/L;
- In general, cDCE and vinyl chloride were detected at concentrations above the cleanup level of 6 µg/L and 0.5 µg/L, respectively; the maximum cDCE concentration (75 µg/L duplicate) was detected at MW-4B and vinyl chloride (23 µg/L) was detected at MW-17;
- The lower TCE concentration relative to cDCE and vinyl chloride is consistent with the biodegradation of TCE to cDCE and cDCE to vinyl chloride in the Gaspur aquifer, and indicates that reductive dechlorination is an important process behind the natural attenuation of these COCs;
- The highest 1,4-dioxane concentration was detected at monitoring well MW-33B (10 µg/L) which is similar to the maximum upgradient 1,4-dioxane concentration detected in MW-19 and MW-58 (9 µg/L);
- In general, 1,2,3-TCP was detected at concentrations above the MCL of 0.005 µg/L; the maximum 1,2,3-TCP concentration (0.23 µg/L) was detected at MW-15B; and
- As shown on Table 9, dissolved hydrocarbon gases were analyzed in one well (MW-4B). Methane was detected at a maximum estimated concentration of 75 µg/L, indicating anaerobic conditions. Ethane and ethene were not detected at the reporting limit of 2 µg/L, indicating that either reductive dechlorination of vinyl chloride to ethene has not yet become a major attenuation process, or ethene is being utilized in-situ at a faster rate than biotransformation of vinyl chloride to ethene. Additional monitoring of dissolved hydrocarbon gases during future monitoring events may provide additional indications as to the fate of vinyl chloride.

MK trend analyses for Phase 1 RAA monitoring wells (Table 11) indicates increasing total chlorinated ethene trends at three wells (MW-4B, MW-17, and MW-61B). Vinyl chloride and cDCE are the dominant

[6] Total ethenes is calculated as the sum of vinyl chloride, trans-1,2-dichloroethene, trichloroethene, and cis-1,2-dichloroethene.

COCs behind all three trends, consistent with the in-situ degradation of TCE to cDCE and vinyl chloride. Decreasing trends in the concentration of total chlorinated ethenes were observed for 17 wells in the Phase 1 RAA; these widespread decreases in concentration represent the combined effects of groundwater extraction and natural attenuation. The MK analysis indicates a decreasing trend at 37 percent of the Phase 1 RAA wells for 1,4-dioxane, with many of the remaining wells either non-detect or with no significant trend.

As shown on Figure 10, TCE concentrations have declined over time by up to three orders of magnitude in many Phase I RAA wells. As previously mentioned, this is the combined result of groundwater extraction and in-situ degradation of TCE to cDCE and vinyl chloride. In many wells, cDCE and 1,4-dioxane concentrations have declined by up to approximately one to two orders of magnitude. The soil vapor and groundwater remediation efforts conducted by the CDCPG since 2011 in OU2 and since 2012 in OU1 have resulted in a substantial decrease in COC concentrations in the Phase 1 RAA groundwater.

2.5.5 OU1 - Phase 2 RAA Monitoring Wells

The following observations pertain to the groundwater monitoring wells in the Phase 2 RAA as shown on Figures 5 through 7 and Figure 11:

- TCE concentrations up to 1.4 J µg/L were detected.
- The maximum cDCE concentration was 28 µg/L (MW-25B).
- The maximum vinyl chloride concentration was 59 µg/L at MW-30, where cDCE concentrations declined from 77 µg/L in November 2020 to 1.8 µg/L in November 2024, indicating substantial biotransformation of cDCE to vinyl chloride, which is an important process behind the natural attenuation of these COCs (Appendix G).
- 1,4-dioxane was detected in four wells at a maximum concentration of 9.8 µg/L (MW-30).
- In general, 1,2,3-TCP was detected at concentrations above the MCL of 0.005 µg/L; the maximum 1,2,3-TCP concentration (0.13 µg/L) was detected at MW-37.
- Dissolved hydrocarbon gases were analyzed in six wells and methane was detected at a maximum concentration of 130 µg/L in MW-28 (Table 9), indicating methanogenic conditions which are generally favorable for the biotransformation of vinyl chloride to ethene. However, ethene was not detected at the reporting limit of 2 µg/L, indicating that either reductive dechlorination of vinyl chloride to ethene has not yet become a major attenuation process, or ethene is being utilized in-situ at a faster rate than biotransformation of vinyl chloride to ethene. Additional monitoring of dissolved hydrocarbon gases during future monitoring events may provide additional indications as to the fate of vinyl chloride.

Trend analyses for Phase 2 OU1 RAA wells are provided in Table 11. The MK analysis indicates a decreasing trend at 80 and 30 percent of the Phase 2 RAA wells for total chlorinated ethenes and 1,4-dioxane respectively, with most of the remaining wells either non-detect or with no significant trend. As shown on Figure 11, TCE concentrations in Phase 2 RAA wells have declined by up to three orders of magnitude from historical maximum concentrations, and for many wells, cDCE and 1,4-dioxane have also declined by up to approximately two to three orders of magnitude. These decreasing trends are due to the combined effects of groundwater remediation upgradient of the Phase 2 RAA and natural attenuation processes.

2.5.6 Exposition Aquifer Monitoring Wells

COC concentrations were either non-detect or below cleanup goals in all five Exposition aquifer monitoring wells sampled during the reporting period. The sampling results to date indicate no evidence for the downward movement of COCs from the Gaspur aquifer to the Exposition aquifer since MW-16, MW-18, and MW-55 have been decommissioned and replaced with MW-16R, MW-18R, and MW-55R.

2.6 EXTRACTION WELL COC CONCENTRATIONS AND MASS REMOVAL RATE

Individual extraction well COC concentrations are provided in Table 8; individual COC concentration trend plots are shown in Appendix G. System effluent total COC concentrations ranged from 36.3 µg/L to 57.4 µg/L during the reporting period (Table 2).

The combined cumulative mass removal from OU1 and OU2 groundwater extraction has been approximately 36.5 pounds of COCs from March 2011 through December 2024. Total estimated groundwater extraction since startup is approximately 72.3 million gallons (Table 3). The mass removal efficiency is low (approximately 0.51 pound of COCs removed for every million gallons of groundwater extracted) because COC concentrations are low in the Gaspur aquifer at the Site.

2.7 RECOMMENDATIONS FOR OU1

There are three recommendations for OU1 based on the data collected during the reporting period:

- Continue to operate the groundwater extraction system as recommended in the *Combined Groundwater Monitoring and Performance Evaluation Report - Second Semi Annual 2023* (Haley & Aldrich, 2024a) and, if water levels continue to recover in the Gaspur aquifer, assess whether it is beneficial to restart EW-5.
- The Consent Decree specifies that MNA be assessed as a potential alternative to groundwater extraction in the Phase 2 RAA. On 23 August 2024, USEPA rejected MNA in the Phase 2 RAA (USEPA, 2024b). In response, the CDCPG will complete a Focused Feasibility Study for groundwater remediation in the Phase 2 RAA after conducting additional groundwater delineation and revising the groundwater model.
- Implement the modifications to the groundwater monitoring plan during the upcoming semi-annual monitoring event in May 2025. This includes gauging all 76 monitoring wells and sampling 12 monitoring wells, consistent with the *Technical Memorandum and Sampling and Analysis Plan Addendum No. 2* (Haley & Aldrich, 2024e). The results of the semi-annual monitoring event will be provided to the USEPA in the Second Quarter Progress Report to be submitted in July 2025 and discussed in the Annual Combined Groundwater Monitoring and Performance Evaluation Report to be submitted in February 2026.

3. OU2 Performance Evaluation

3.1 OU2 REMEDIAL SYSTEM OVERVIEW

3.1.1 Soil Vapor Extraction

SVE operation started in 2011 with optimization efforts to improve COC mass recovery rates and reduce COC concentrations in the vapor monitoring probes starting in September 2013. SVE operation and optimization efforts are included in Table 12.

3.1.2 Dual-Phase Extraction

DPE operations began in 2012. Since June 2015, the perched groundwater zone within the Bellflower unit has been effectively dewatered after extracting and treating more than 1,000,000 gallons of perched groundwater. The goal of the DPE system was to dewater the perched zone to extend the depth of vapor recovery by vacuum extraction. This goal was accomplished and there is no longer a potential for COC transport from perched groundwater to the Gaspur aquifer.

3.1.3 Treatment

During the reporting period, the SVE system included a 500 standard cubic feet per minute (SCFM) blower skid to extract soil vapor from the extraction well network, a KO tank to remove condensate, an air-cooled heat exchanger, associated instrumentation, and a controller. The vapor stream was directed to two, 2,000-pound vapor-phase GAC vessels connected in series to reduce VOC concentrations prior to discharge to the atmosphere through a vent riser. The blower skid operated under a South Coast Air Quality Management District (SCAQMD) Various Locations Permit. Recovered soil vapor condensate was routed to liquid-phase GAC vessels for treatment prior to discharge to the sanitary sewer under an industrial wastewater discharge permit.

3.1.4 Current State of SVE Operations

SVE rebound testing was performed from October 2021 through November 2022 in accordance with the *Soil Vapor Extraction Rebound Testing Technical Memorandum* that was submitted to the USEPA on 9 July 2021 (Haley & Aldrich, 2021b) and conditionally approved by USEPA on 2 September 2021 with the condition that shallow VP-14 probes be sampled monthly. The results of the SVE rebound testing program indicated that all sampling locations met rebound testing criteria, except for VP-14 on the adjacent Los Angeles Unified School District (LAUSD) parcel located at 5115 Southern Avenue in South Gate, California. Results of the rebound testing were summarized in the *Soil Vapor Extraction Rebound Testing Completion Report and Partial Decommissioning Work Plan* dated 15 May 2023 (Haley & Aldrich, 2023c). The May 2023 Work Plan included a recommendation for partial cessation of SVE in areas that met approved rebound criteria, continued operation in the VP-14 area, and partial decommissioning of the SVE system. The May 2023 Work Plan was approved by USEPA in a letter dated 13 August 2023 (USEPA, 2023b).

In accordance with the USEPA-approved May 2023 Work Plan, SVE and DPE infrastructure was partially decommissioned as described in the *Soil Vapor Extraction Partial Decommissioning and Groundwater Extraction System Modification Completion Report* (Haley & Aldrich, 2024c) that was submitted to the

USEPA on 4 October 2024. In addition, minor modifications were completed to the groundwater extraction system.

As discussed previously with USEPA, current rebound criteria for VP-14 are unlikely to be met with continued SVE operation. As such, the CDCPG proposed a path forward for addressing soil vapor in the VP-14 area and submitted a *Revised Work Plan for Addressing Soil Vapor at VP-14* (Revised VP-14 Area Work Plan) to the USEPA on 6 August 2024 (Haley & Aldrich, 2024d). The Revised VP-14 Area Work Plan was approved by USEPA on 18 August 2024. Pursuant to the Revised VP-14 Area Work Plan, the SVE system was shut down on 23 August 2024 in order to begin an equilibrium period prior to soil vapor sampling activities on the LAUSD parcel.

3.2 OU2 REMEDIAL SYSTEM OPERATIONS, MAINTENANCE, AND MONITORING

Periodic operation and maintenance visits were performed on behalf of the CDCPG during the reporting period to observe system performance, change operational settings, collect field readings, and collect samples for laboratory analysis. Flow rates, inlet concentrations, and estimated mass removal rates for the SVE system are summarized in Table 13. The cumulative COC mass removal in vapor phase since the startup of the SVE/DPE system is depicted in Figure 12.

When operating, the following field measurements were collected from the SVE system during July and August operations and maintenance visits:

- Extraction well and SVE system vacuums and pressures using a digital manometer;
- Air temperatures using fixed gauges and a handheld temperature measuring device;
- Air flow rates using fixed pitot tubes and a handheld digital velocity meter; and
- Total VOC concentration, using a handheld photoionization detector (PID) calibrated to 50 parts per million by volume (ppmV) hexane.

Appendix A contains field measurements collected during routine monthly operations and maintenance visits.

3.2.1 Wellfield Operation

SVE and DPE wells in the vicinity of VP-14 (e.g., SVE-11, SVE-12, DPE-7, and DPE-13) were operated from 1 July 2024 until the SVE system was shut down on 23 August 2024. DPE-7 operated under system vacuum as a vapor extraction well, while SVE-11, SVE-12, and DPE-13 operated as venting wells (open to atmosphere). SVE well and monitoring point construction details are included in Table 14. A figure of remediation and monitoring infrastructure is provided in Figure 13.

3.2.2 Total Vapor Extraction Rate, Vacuum and PID Readings

The average flow rate readings at the inlet to the system were approximately 41 SCFM (without dilution air; pre-air-dilution valve) and 89 SCFM (with dilution air; post-air-dilution valve) as measured in the field with a Pitot Tube and calculated using static vacuum, temperature, and differential pressure. The average vacuum reading at the system inlet was approximately 126 inches of water. The PID reading that was collected at the DPA influent sample port (from extraction well DPE-7) averaged approximately 5.6 ppmV. SVE inlet PID readings collected upstream of the dilution air inlet (without dilution air) ranged from 3.1 to 6.2 ppmV. SVE inlet PID readings collected downstream of the dilution air inlet (with dilution

air; post-air-dilution valve) ranged from 0 to 0.6 ppmV and averaged 0.4 ppmV during the reporting period. SVE operational data are provided in Appendix A.

3.2.3 System Uptime

Including scheduled non-operation time for Site visits and regular maintenance, the system operated with an uptime of approximately 99.9 percent before it was shut down on 23 August 2024. The system remained offline for the remainder of the reporting period.

3.2.4 Compliance with Substantive Requirements

Monthly vapor treatment system sampling was performed during the reporting period and results are summarized in Table 15; the corresponding laboratory analytical reports included in Appendix E. During the reporting period, effluent concentrations from the SVE system were compliant with the substantive requirements from the SCAQMD Various Locations Permit.

3.3 REVISED WORKPLAN FOR ADDRESSING SOIL VAPOR AT VP-14 STATUS

The SVE system was shut down in the VP-14 area on 23 August 2024 in accordance with the *Revised Work Plan for Addressing Soil Vapor at VP-14* (Revised VP-14 Area Work Plan). The scope of work includes the installation of six soil vapor monitoring probes and up to seven sub-slab vapor pins. A Site visit was conducted on 26 November 2024 to review the proposed drilling locations for soil vapor probes and sub-slab vapor pins, evaluate access, mark-out all drilling locations, conduct a building survey, conduct a utility survey. In addition, the LAUSD required sampling and analysis of the asphalt or floor tile surface covering at each vapor monitoring probe and sub-slab vapor pin location to test for asbestos. The asphalt and floor tile samples were collected on 26 November 2024 and analyzed for asbestos-containing materials per LAUSD guidelines. Asbestos-containing materials were not detected in the samples and the results were shared with LAUSD and were attached to the Fourth Quarter Progress Report for the Cooper Drum Site (Haley & Aldrich, 2025). During the building inspections, the observed classroom configuration of Buildings 6 and 7 resulted in the selection of five sub-slab vapor pin locations rather than seven locations as proposed in the Revised VP-14 Area Work Plan.

On 26 and 27 December 2024, six soil vapor monitoring probes were installed in accordance with the Revised VP-14 Area Work Plan. Approximate locations of the newly installed soil vapor monitoring probes are included on Figure 13. Soil vapor probe construction logs will be provided in the VP-14 Area Completion Report that is tentatively scheduled to be submitted to the USEPA during the fourth quarter 2025. Sub-slab vapor pin installation was scheduled in January 2025 and vapor sampling will be scheduled during the first and third quarters of 2025.

3.4 RECOMMENDATION FOR OU2

The following actions are recommended for OU2:

- Continue implementation of the Revised VP-14 Area Work Plan; and
- Submit a Shallow Soil Investigation Work Plan for the collection of shallow soil samples to further characterize metal, polychlorinated biphenyl, and polycyclic aromatic hydrocarbon impacts on the Property.

4. Conclusions

The following conclusions comprise the major observations based on the interpretation of the data discussed in this report.

4.1 OU1 – GASPUR AQUIFER

- From 1998 to 2023, water levels had generally declined in the Gaspur and Exposition aquifers by more than 20 feet, a rate of about 1 foot per year. However, in 2024, water levels increased in all five Exposition monitoring wells by approximately 2 feet and increased by 1.3 feet in the Gaspur monitoring wells. The Gaspur aquifer beneath the Property remains under unconfined conditions, with a current depth to water of approximately 65 feet bgs. The groundwater declines have impacted the monitoring and extraction well network. Certain monitoring wells did not yield sufficient water for sample collection during the November 2024 groundwater sampling event, and groundwater extraction well EW-5 was not operated during the reporting period due to low water levels.
- The horizontal hydraulic gradient direction from the Property generally varied from east to south during the monitoring period in the Gaspur aquifer. The hydraulic gradient was notably steeper on the Property, approximately 0.004 foot per foot, compared to the gradient at the downgradient and southeast extent of the site, which was approximately 0.0002 foot per foot. The steeper gradient on the Property may reflect lower permeability sediments in this area and/or the effects of groundwater extraction.
- Vertical gradients for the Gaspur aquifer generally indicate that gradient direction is variable within the Gaspur aquifer, with upward gradients primarily observed within Phase 1 OU1 area groundwater extraction well network area. Vertical gradients in co-located shallow, intermediate, and lower Gaspur monitoring wells ranged from -0.0181 to +0.0480 foot per foot.
- The relatively large head difference (approximately 2 feet) between the Gaspur and Exposition aquifers illustrates that the laterally extensive, fine-grained aquitard at the Site hydraulically separates these aquifers. The steeper vertical gradients observed in Exposition monitoring wells, ranging from 0.0402 to 0.0741 foot per foot, is indicative of a zone of lower hydraulic conductivity (i.e., an aquitard) separating the Gaspur aquifer from the Exposition aquifer.
- Groundwater in the Gaspur aquifer is primarily under reducing (anerobic) redox conditions conducive to naturally occurring reductive dechlorination; increasing cDCE and vinyl chloride concentrations relative to TCE provide a direct indication of the viability of reductive dechlorination as a natural attenuation process.
- TCE concentrations in the Gaspur monitoring wells are either non-detect or below the cleanup standard of 5 µg/L, in part based on the in-situ biotransformation of TCE into cDCE and due to groundwater extraction.
- COC concentrations in the Gaspur aquifer are attenuating in both the Phase 1 and Phase 2 RAAs, and cDCE and 1,4-dioxane concentrations have declined by up to approximately one to three orders of magnitude over time in many wells.
- For most of the reporting period, the mean weekly groundwater flow was near the target total extraction rate of approximately 11 gpm. Additional maintenance was performed on the

groundwater treatment system during the reporting period to maintain and improve system operation.

- COC concentrations were either non-detect or below cleanup goals in all five Exposition aquifer monitoring wells sampled during the reporting period. The sampling results to date indicate that the groundwater quality in the Exposition aquifer is distinct from the Gaspur aquifer and there is no evidence for the downward movement of COCs from the Gaspur aquifer to the Exposition aquifer now that the conduit wells have been decommissioned and replaced.

4.2 OU2 – UNSATURATED ZONE

- SVE operation will remain shut down and ambient air, indoor air, and soil vapor sampling south of the Property in the vicinity of vapor probe VP-14 will be conducted pursuant to the Revised VP-14 Area Work Plan. Split sampling will be coordinated with USEPA representatives.

5. Planned First Semi-Annual 2025 Activities

The CDCPG plans to complete the following activities during the next reporting period:

- An in-person technical meeting is scheduled on 29 April 2025 with USEPA and DTSC representatives.
- Pending approval of the *Technical Memorandum and Sampling and Analysis Plan Addendum No. 2* (Haley & Aldrich, 2024e), the CDPCG intends to change the groundwater sampling program starting in May 2025 and reduce the Groundwater Monitoring and Performance Evaluation Report frequency to annual.
- Continue to operate the groundwater extraction system and, submit a Groundwater Model Work Plan to USEPA to describe the process for revising the groundwater model for the Site.
- Submit a Downgradient OU1 Groundwater Investigation Work Plan that will include sampling and analysis of OU1 groundwater on Wood Avenue in South Gate, California.
- Submit a Shallow Soil Investigation Work Plan for the collection of shallow soil samples to further characterize metal, polychlorinated biphenyl, and polycyclic aromatic hydrocarbon impacts on the Property;
- Conduct ambient air, indoor air, and soil vapor sampling south of the Property in the vicinity of vapor probe VP-14 in coordination with USEPA representatives and LAUSD.

These tasks and the monitoring results for 2025 will be discussed in the next Groundwater Monitoring and Performance Evaluation Report to be submitted to USEPA in February 2026.

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TABLES

TABLE 1

GROUNDWATER AND SOIL VAPOR CHEMICALS OF CONCERN AND CLEANUP LEVELS
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Operable Unit 1: Chemicals of Concern and Cleanup Levels		
Chemical of Concern	**Media**	**Cleanup Level[1] (µg/L)**
1,1-DCA	Groundwater	5
1,1-DCE	Groundwater	6
1,2-DCA	Groundwater	0.5
1,2-DCP	Groundwater	5
1,2,3-TCP[6]	Groundwater	1
Benzene	Groundwater	1
cDCE	Groundwater	6
tDCE	Groundwater	10
PCE	Groundwater	5
TCE	Groundwater	5
Vinyl chloride	Groundwater	0.5
1,4-Dioxane[2]	Groundwater	TBD

Operable Unit 2: Rebound Criteria and Vapor Intrusion Screening Levels				
Chemical of Concern	**Media**	**Rebound Technical Memorandum Screening Levels[3]**		**EPA Default Soil Vapor Screening Levels[4] - VP-14A, VP-14B, and VP-14C Only[5]**
		<30 feet bgs (ppmV)	**VLEACH >30 feet bgs (µg/m^3)**	**Industrial <30 feet bgs (µg/m^3)**
1,1-DCA	Soil Vapor	Total COCs 1 ppmv	24,000	260
1,1-DCE	Soil Vapor		136,000	10,300
1,2-DCA	Soil Vapor		520	16
1,2-DCP	Soil Vapor		12,000	41
1,2,3-TCP	Soil Vapor		300	0.055
Benzene	Soil Vapor		4,900	14
cDCE	Soil Vapor		21,000	1,170
tDCE	Soil Vapor		36,000	11,700
PCE	Soil Vapor		76,000	70
TCE	Soil Vapor		43,000	100
Vinyl chloride	Soil Vapor		12,000	5

Notes:

1. Cleanup levels are according to EPA's Consent Decree dated 29 December 2015.
2. The cleanup level for 1,4-dioxane in groundwater is to be determined, pending a maximum contaminant level or a decision document.
3. The rebound criteria for SVE operation as described in the Soil Vapor Extraction Rebound Testing Technical Memorandum (Tech Memo) prepared by Haley & Aldrich, Inc. dated 28 June 2019.
4. EPA default soil vapor screening levels are calculated by applying the default USEPA attenuation factor (0.03) with the indoor air target concentrations derived from current toxicity values for industrial air.
5. Due to its off-site location to the south of the Property, per the Tech Memo VP-14A, B, and C are screened against EPA Default Soil Vapor (Industrial) Screening Levels.
6. Per the First Five Year Review, the CDCPG has revised the SAP and starting in June 2022 has implemented low-level 1,2,3-TCP analysis (SRL Method 524SIM) that can meet the drinking water standard of 0.005 µg/L established by California in 2017.

Abbreviations:

bgs = below ground surface
COCs = chemicals of concern
µg/L = micrograms per liter
µg/m^3 = micrograms per cubic meter
ppmv = parts per million by volume
SVE = Soil Vapor Extraction
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane
VLEACH = Vadose Zone Transport Model
cDCE = cis-1,2-Dichloroethene
tDCE = trans-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
CARBON INF	07/03/2024	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**7.4**	**7.4**
CARBON MID	07/03/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**14**	**14**
CARBON EFF	07/03/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**12**	**12**
LINF	03/15/2012	**0.68**	**2.5**	**18**	**5.9**	**2.7**	**1.8**	**0.63**	< 0.5	< 0.5	**1.6**	**1.7**	**19**	**55**
LINF	04/25/2012	**1.3**	**22**	**42**	**16**	**3.4**	**2.1**	**0.9**	**0.92**	< 0.5	**2.3**	**0.66**	**89 J**	**180.58**
LINF	05/22/2012	**1.1**	**38**	**9.6**	**3.9**	**1.7**	< 0.5	**0.67**	< 0.5	< 0.5	**0.89**	< 0.5	**140**	**195.86**
LINF	06/22/2012	**1.8**	**31**	**10**	**3.5**	**0.96**	< 0.5	**0.79**	< 0.5	< 0.5	**1**	**0.6**	**90**	**139.65**
LINF	07/05/2012	**1**	**34**	**23**	**5.9**	**1.6**	< 0.5	**0.67**	< 0.5	< 0.5	**1.4**	< 0.5	**140**	**207.57**
LINF	07/23/2012	< 0.5	**15**	**26**	**5.3**	**1.6**	**2.5**	**1.6**	< 0.5	< 0.5	**1.3**	**1.3**	< 100	**54.6**
LINF	08/07/2012	**1.1**	**31**	**13**	**3.5**	**0.97**	< 0.5	**0.52**	< 0.5	< 0.5	**0.86**	< 0.5	**110**	**160.95**
LINF	08/17/2012	< 0.5	**14**	**25**	**5.1**	**1.5**	**3.4**	**2**	< 0.5	< 0.5	**1.5**	**1.5**	**15 J**	**69**
LINF	08/24/2012	< 0.5	**13**	**27**	**5.8**	**1.4**	**3**	**1.6**	< 0.5	< 0.5	**1.4**	**1.2**	**19 J**	**73.4**
LINF	09/07/2012	< 0.5	**19**	**41**	**7**	**1.3**	**2**	**2.4**	< 0.5	< 0.5	**2.1**	**1.5**	**20 J**	**96.3**
LINF	09/14/2012	< 0.5	**13**	**40**	**5.9**	**1.5**	**2.4**	**1.7**	**0.8**	< 0.5	**1.9**	**1.4**	**15 J**	**83.6**
LINF	10/16/2012	< 0.5	**21**	**36**	**5.4**	**1.5**	**1.6**	**1.9**	< 0.5	< 0.5	**1.9**	**1.9**	< 100 J	**71.2**
LINF	11/20/2012	< 0.5	**23**	**21**	**5.2**	**1.1**	< 0.5	**0.55**	< 0.5	< 0.5	**0.75**	< 0.5	**57 J**	**108.6**
LINF	12/14/2012	< 0.5	**8.9**	**19**	**2.4**	**0.89**	**0.75**	**0.65**	< 0.5	< 0.5	**0.75**	**1.3**	**21 J**	**55.64**
LINF	01/16/2013	< 0.5	**8**	**27**	**3.3**	**1.4**	**1.4 J**	**0.91**	< 0.5	< 0.5	**0.97**	**1.8**	**20**	**64.78**
LINF	02/28/2013	< 0.5	**8.8**	**40**	**4.1**	**2.1**	**2.1**	**1.7**	< 0.5	< 0.5	**2.1**	**4.6**	**14**	**79.5**
LINF	04/05/2013	< 1	**8.3**	**31**	**3.4**	**1.8**	**1.6**	**1.5**	< 1	< 1	**1.7**	**2.1**	**20**	**71.4**
LINF	04/23/2013	< 1	**11**	**39**	**4.2**	**2**	**1.7**	**2.5**	< 1	< 1	**2.1**	**3**	**20**	**85.5**
LINF	05/21/2013	< 0.5	**9**	**43**	**5.2**	**1.7**	**1.8**	**2.4**	< 0.5	< 0.3	**2.6**	**2.6**	**18**	**86.3**
LINF	06/25/2013	< 0.5	**9.4**	**39**	**5.3**	**1.7**	**2.2**	**2.4**	< 0.5	< 0.3	**2.4**	**2.2**	**17**	**81.6**
LINF	07/30/2013	**0.75**	**12**	**35**	**4.3**	**1.5**	**2.5**	**2**	**0.58**	**1.1**	**2.3**	**0.61**	**16**	**78.64**
LINF	08/29/2013	< 0.5	**7.5**	**36**	**4.4**	**1.6**	**1.2**	**1.8**	< 0.5	< 0.3	**1.9**	**1.6**	**16**	**72**
LINF	09/24/2013	< 0.5	**6.3**	**30**	**3**	< 0.3	**1.6**	**1.6**	< 0.5	< 0.3	**1.8**	**1.2**	**16**	**61.5**
LINF	10/29/2013	< 0.5	**6.3**	**25**	**2.7**	**1**	**1.1**	**1.6**	< 0.5	< 0.3	**1.7**	**1.2**	**21**	**61.6**
LINF	11/25/2013	< 0.5	**7.7**	**34**	**3.8**	**1.4**	**1.5**	**2.3**	< 0.5	< 0.3	**2.6**	**1.6**	**18**	**72.9**
LINF	12/16/2013	< 0.5	**7.6**	**33 J**	**4**	**2**	**1.4**	< 0.3	< 0.5	< 0.3	**2.1**	**1.7**	**20**	**71.8**
LINF	01/27/2014	< 0.5	**5.8**	**34**	**3.2**	**1.3**	**1.6**	**2.6**	< 0.5	< 0.3	**2.2**	**1.8**	**17**	**69.5**
LINF	02/24/2014	< 0.5	**4.4**	**33**	**3.4**	**1.4**	**0.85**	**1.7**	< 0.5	< 0.3	**2.2**	**1.8**	**18**	**66.75**
LINF	03/24/2014	< 0.5	**3.6**	**35**	**3.1**	**1.4**	**0.95**	**1.6**	< 0.5	< 0.3	**2**	**1.9**	**17**	**66.55**
LINF	04/29/2014	< 0.5	**2.4**	**30**	**2.4**	**1.1**	**0.78**	**1.2**	< 0.5	< 0.3	**1.6**	**1.6**	**18**	**59.08**
LINF	05/29/2014	< 0.5	**3.4**	**30**	**2.4**	**1.2**	**0.78**	**1.2**	< 0.5	< 0.3	**2**	**1.5**	**16**	**58.48**
LINF	06/26/2014	< 0.5	**3.4**	**27**	**2.7**	**1.3**	**1**	**1.2**	< 0.5	< 0.3	**2.2**	**1.4**	**16**	**56.2**
LGACI	12/14/2012	< 0.5	< 0.5	< 0.5	**1.3**	**0.53**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	**1.83**
LGACI	01/16/2013	< 0.5	< 0.5	< 0.5	**2.3**	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	**3.3**
LGACI	02/28/2013	< 0.5	< 0.5	< 0.5	**3.2**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	**6.6**
LGACI	04/05/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**5.8**	**5.8**
LGACI	04/23/2013	< 1	< 1	< 1	**4**	**1.7**	< 1	< 1	< 1	< 1	< 1	< 1	**1.9**	**7.6**
LGACI	05/21/2013	< 0.5	< 0.2	< 0.2	**2.8**	**0.78**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**3.58**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
LGACI	06/25/2013	< 0.5	< 0.2	< 0.2	**4.3**	**1.4**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.7 J**	**7.4**
LGACI	07/30/2013	**0.5**	< 0.2	**0.34 J**	**3.6**	**1.2**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.5 J**	**7.14**
LGACI	08/29/2013	< 0.5	< 0.2	< 0.2	**3.2**	**1.3**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.2 J**	**5.7**
LGACI	09/24/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.1 J**	**1.1**
LGACI	10/29/2013	< 0.5	**0.21 J**	**0.54**	**3.1**	**0.91**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.5**	**7.26**
LGACI	11/25/2013	< 0.5	**0.33 J**	**0.69**	**2.9**	**1.1**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.9**	**8.92**
LGACI	12/16/2013	< 0.5	< 0.2	**0.33 J**	**3**	**1.3**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.6**	**7.23**
LGACI	01/27/2014	< 0.5	< 0.2	**2.2**	**0.39 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**17**	**19.59**
LGACI	02/24/2014	< 0.5	< 0.2	**0.39 J**	**2.4**	**1.1**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**3.89**
LGACI	03/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.7 J**	**1.7**
LGACI	04/29/2014	< 0.5	< 0.2	< 0.2	**1.6**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.3 J**	**2.9**
LGACI	05/29/2014	< 0.5	< 0.2	< 0.2	**1.9**	**0.85**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.2 J**	**3.95**
LGACI	06/26/2014	< 0.5	< 0.2	< 0.2	**0.46 J**	**0.88**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**1.34**
LGACI (DPE-INF)	07/31/2014	< 0.5	**5**	**8.3**	**1.4**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.64**	< 0.2	**40**	**55.34**
LGACI (DPE-INF)	08/27/2014	< 0.5	**4.8**	**9.1**	**1.1**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**36**	**51**
LGACI (DPE-INF)	09/22/2014	< 0.5	**4.8**	**9.6**	**1.8**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.63**	< 0.2	**45**	**61.83**
LGACI (DPE-INF)	10/23/2014	< 0.5	**5.5**	**8.6**	**1.4**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.56**	< 0.2	**39**	**55.06**
LGACI (DPE-INF)	11/24/2014	< 0.5	**4.5**	**7.8**	**1.5**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**50**	**63.8**
LGACI (DPE-INF)	12/10/2014	< 0.5	**6.3**	**11**	**2.1**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.66**	< 0.2	**48**	**68.06**
LGACI (DPE-INF)	01/20/2015	< 0.5	**5.6**	**11**	**1.8**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.57**	< 0.2	**72**	**90.97**
LGACI (DPE-INF)	02/17/2015	< 0.5	**4.7**	**8.9**	**0.92**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.51**	< 0.2	**52**	**67.03**
LGACI (DPE-INF)	03/26/2015	< 0.5	**2.3**	**2.7**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**18**	**23**
LGACI (DPE-INF)	04/30/2015	< 0.5	**0.78**	**3.3**	**0.41 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**10**	**14.49**
LGACI (DPE-INF)	05/28/2015	< 0.5	**0.31 J**	**0.32 J**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**7.4**	**8.03**
LGACI (DPE-INF)	06/16/2015	< 0.5	**1.8**	**12**	**1.3**	**1.3 J**	**0.95**	**0.7**	< 0.5	< 0.3	**0.86**	**0.82**	**20**	**39.73**
LGACI (DPE-INF)	07/07/2015	< 0.5	**1**	**3.6**	**0.45 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**18**	**23.05**
LGACI (DPE-INF)	08/26/2015	< 0.5	**1.3**	**3.6**	**0.48 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**10**	**15.38**
LGACI (DPE-INF)	09/16/2015	< 0.5	**1**	**3**	**0.38 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**5**	**9.38**
LGACI (DPE-INF)	10/14/2015	< 0.5	< 0.2	**0.44 J**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**26**	**26.44**
LGACI (DPE-INF)	11/18/2015	< 0.5	**0.86**	**3.9**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**12**	**16.76**
LGACI (DPE-INF)	12/09/2015	< 0.5	**1.4**	**3.5**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**46**	**50.9**
LGACI (DPE-INF)	01/13/2016	< 0.5	< 0.2	**2.1**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**42**	**44.1**
LGACI (DPE-INF)	02/17/2016	< 0.5	**0.47 J**	**1.1**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**51**	**52.57**
LGACI (DPE-INF)	03/23/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**34**	**34**
LGACI (DPE-INF)	04/20/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**30**	**30**
LGACI (DPE-INF)	05/18/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**23**	**23**
LGACI (DPE-INF)	06/08/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**12**	**12**
LGACI (DPE-INF)	07/20/2016	< 0.5	< 0.2	**0.48 J**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**13**	**13.48**
LGACI (DPE-INF)	08/17/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**8.4**	**8.4**
LGACI (DPE-INF)	09/28/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**4.4**	**4.4**
LGACI (DPE-INF)	10/12/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.4**	**3.4**

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Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
EW-INF	07/31/2014	< 0.5	**4**	**30**	**3.2**	**1.3**	**1.9**	**2.2**	< 0.5	< 0.3	**2**	**2.9**	**14**	**61.5**
EW-INF	08/27/2014	< 0.5	**4.2**	**32**	**4**	**2**	**2.5**	**2.2**	< 0.5	< 0.3	**1.9**	**2.3**	**16**	**67.1**
EW-INF	09/22/2014	< 0.5	**3.5**	**33**	**3.5**	**1.7**	**2.3**	**2.4**	< 0.5	< 0.3	**2.2**	**2.3**	**17**	**67.9**
EW-INF	10/23/2014	< 0.5	**3.4**	**35**	**3.6**	**1.6**	**2.5**	**2.3**	< 0.5	< 0.3	**2.4**	**2.4**	**16**	**69.2**
EW-INF	11/24/2014	< 0.5	**3.2**	**35**	**4.2**	**2.3**	**3.2**	**2.9**	< 0.5	< 0.3	**2.4**	**2.4**	**16**	**71.6**
EW-INF	12/10/2014	< 0.5	**2.3**	**31**	**2.7**	**1.3**	**1.9**	**2**	< 0.5	< 0.3	**2**	**2.1**	**16**	**61.3**
EW-INF	01/20/2015	< 0.5	**2.7**	**32**	**3.6**	**1**	**2.4**	**2.4**	< 0.5	< 0.3	**2.4**	**2.2**	**16**	**64.7**
EW-INF	02/17/2015	< 0.5	**3**	**33**	**2.8**	**1.3**	**2.2**	**2.2**	< 0.5	< 0.3	**2.2**	**2.2**	**16**	**64.9**
EW-INF	03/26/2015	< 0.5	**2.8**	**31**	**2.9**	**1.8**	**2.6**	**2**	< 0.5	< 0.3	**1.9**	**1.9**	**16**	**62.9**
EW-INF	05/28/2015	**0.83**	**4.8**	**30**	**3.8**	**1.9**	**2.3**	**1.7**	< 0.5	< 0.3	**2.6**	**2.3**	**18**	**68.23**
EW-INF	06/16/2015	< 0.5	**4**	**37**	**2.8**	**2.3 J**	**2.7**	**2.7**	< 0.5	< 0.3	**2.4**	**2**	**18**	**73.9**
EW-INF	07/07/2015	< 0.5	**4.4**	**40**	**4.2**	**2.2**	**4.7**	**3.3**	**0.55**	< 0.3	**3.3**	**2.9**	**19**	**84.55**
EW-INF	08/26/2015	< 0.5	**3.4**	**43**	**4.1**	**1.7**	**2.6**	**2**	< 0.5	< 0.3	**3.1**	**2.9**	**19**	**81.8**
EW-INF	09/16/2015	< 0.5	**1.5**	**17**	**2.6**	**0.83**	**0.55**	**0.89**	< 0.5	< 0.3	< 0.4	**1.6**	**16**	**40.97**
EW-INF	10/14/2015	< 0.5	**3.2**	**31**	**3**	**0.97**	**2.3**	**2.4**	< 0.5	< 0.3	**3.5**	**2.9**	**11**	**60.27**
EW-INF	11/18/2015	< 0.5	**4.3**	**35**	**1.8**	**2.7**	**1.6**	**0.93**	< 0.5	< 0.3	**4.4**	**1.9**	**13**	**65.63**
EW-INF	12/09/2015	< 0.5	**3.6**	**27**	**0.91**	**2.5**	**1.2**	**1.4**	< 0.5	< 0.3	**3.9**	**1.9**	**10**	**52.41**
EW-INF	01/13/2016	< 0.5	**4**	**30**	**1.6**	**2.4**	< 0.5	**0.91**	< 0.5	< 0.3	**3**	**2.1**	**11**	**55.01**
EW-INF	02/17/2016	< 0.5	**2.7**	**27**	**1.5**	**1.4**	**1.2**	**1.6**	< 0.5	< 0.3	**4.2**	**1.8**	**14**	**55.4**
EW-INF	03/23/2016	< 0.5	**4.1**	**31**	**0.54**	**1.8**	**0.54**	**0.36 J**	< 0.5	< 0.3	**4.8**	**2**	**13**	**58.14**
EW-INF	04/20/2016	< 0.5	**2.5**	**30**	**1.2**	**2**	**0.88**	**1**	< 0.5	< 0.3	**4.5**	**2.2**	**15**	**59.28**
EW-INF	05/18/2016	< 0.5	**1.9**	**37**	**0.93**	**2.7**	**1.2**	**1.4**	< 0.5	< 0.3	**4.5**	**1.9**	**16**	**67.53**
EW-INF	06/08/2016	< 0.5	**4**	**40**	**1.9**	**2.3**	**1.2**	**1.9**	< 0.5	< 0.3	**6.2**	**2.1**	**9.8**	**69.4**
EW-INF	07/20/2016	< 0.5	**3.9**	**39**	**2**	**2.2**	**1.2**	**1.8**	< 0.5	< 0.3	**5.5**	**2.4**	**7.3**	**65.3**
EW-INF	08/17/2016	< 0.5	**3.9**	**48**	**2.4**	**2.3**	**1.6**	**2.2**	< 0.5	< 0.3	**7.2**	**2.2**	**11**	**80.8**
EW-INF	09/28/2016	< 0.5	**3.3**	**44**	**2.4**	**2.3**	**1.3**	**2.1**	< 0.5	< 0.3	**5.8**	**2.3**	**9.7**	**73.2**
EW-INF	10/12/2016	< 0.5	**3.5**	**43**	**2.2**	**2.2**	**1.3**	**2**	< 0.5	< 0.3	**6.2**	**3.4**	**9.6**	**73.4**
EW-INF	11/16/2016	< 0.5	**2.9**	**47**	**2.7**	**1.8**	**1.3**	**2.8**	< 0.5	< 0.3	**6.3**	**3**	**13**	**80.8**
EW-INF	12/14/2016	< 0.5	**2.3**	**43**	**1.6**	**2.2**	**0.97**	**1.3**	< 0.5	< 0.3	**5.1**	**2.2**	**11**	**69.67**
EW-INF	01/25/2017	< 0.5	**4.2**	**38**	**2.1**	**1.3**	**1.8**	**2**	< 0.5	< 0.3	**5.6**	**1.5**	**12**	**68.5**
EW-INF	02/22/2017	< 0.5	**2.6**	**47**	**2.2**	**1.9**	**1.5**	**1.7**	< 0.5	< 0.3	**4.6**	**2.1**	**13**	**76.6**
EW-INF	03/15/2017	< 0.5	**2.1**	**48**	**2.2**	**2.1**	**2**	**2**	< 0.5	< 0.3	**6.4**	**1.7**	**11**	**77.5**
EW-INF	04/12/2017	< 0.5	**2**	**50**	**2.1**	**1.4**	**0.97**	**0.96**	< 0.5	< 0.3	**6.6**	**1.9**	**11**	**76.93**
EW-INF	05/17/2017	< 0.5	**1.8**	**39**	**1.8**	**2.3**	**1.8**	**1.6**	< 0.5	< 0.3	**5.4**	**1.3**	**11**	**66**
EW-INF	06/21/2017	< 0.5	**3.9**	**45**	**2.4**	**1.2**	**1.1**	**1.2**	< 0.5	< 0.3	**5.1**	**1.7**	**14**	**75.6**
EW-INF	07/26/2017	< 0.5	**1.7**	**52**	**1.9**	**1.4**	**1.8**	**1.2**	< 0.5	< 0.3	**5.4**	**2.1**	**10**	**77.5**
EW-INF	08/16/2017	< 0.5	**1.8**	**50**	**2.8**	**1.6**	**1.6**	**1.9**	< 0.5	< 0.3	**6.6**	**1.8**	**12**	**80.1**
EW-INF	09/22/2017	< 0.5	**4.2**	**85**	**4.4**	**2.7**	**4.1**	**2.8**	< 0.5	< 0.3	**7.4**	**2.8**	**11**	**124.4**
EW-INF	10/11/2017	< 0.5	**2.6**	**49**	**2.5**	**2.3**	**1.2**	**1.6**	< 0.5	< 0.3	**5.5**	**4.1**	**11**	**79.8**
EW-INF	11/29/2017	< 0.5	**2.5**	**49**	**2.2**	**2.1**	**1.2**	**1.4**	< 0.5	< 0.3	**4.5**	**1.9**	**9.2**	**74**
EW-INF	12/13/2017	< 0.5	**6.5**	**57**	**3.5**	**1.9**	**0.97**	**1.6**	< 0.5	< 0.3	**5.8**	**1.3**	**13**	**91.57**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
EW-INF	01/31/2018	< 0.5	**1.5**	**47**	**2.1**	**2.2**	**1.1**	**0.97**	< 0.5	< 0.3	**4.3**	**1.8**	**9.9**	**70.87**
EW-INF	02/28/2018	< 0.5	**1.4**	**40**	**1.8**	**2.1**	**1**	**1.2**	< 0.5	< 0.3	**3.5**	**1.8**	**7**	**59.8**
EW-INF	03/28/2018	< 0.5	**3.8**	**46**	**3**	**2.2**	**0.97**	**1.5**	< 0.5	< 0.3	**4.9**	**2**	**9.8**	**74.17**
EW-INF	04/30/2018	< 0.5	**1.4**	**37**	**2.1**	**3**	**1.2**	**1.3**	< 0.5	< 0.3	**5.3**	**2**	**6.6**	**59.9**
EW-INF	05/16/2018	< 0.5	**1.2**	**31**	**1.8**	**2.7**	< 0.5	**1.4**	< 0.5	< 0.3	**5.8**	**1.4**	**5.4**	**50.7**
EW-INF	06/20/2018	< 0.5	**4.4**	**43**	**3.4**	**1.9**	**1.1**	**1.7**	< 0.5	< 0.3	**5**	**1.8**	**7.8**	**70.1**
EW-INF	07/18/2018	< 0.5	**2.4**	**38 J**	**2.7**	**3.3**	**1**	**1.5**	< 0.5	< 0.3	**5**	**2.8**	**6.4**	**63.1**
EW-INF	08/15/2018	< 0.5	**3.1**	**41**	**2.4**	**1.9**	**1.4**	**1.3**	< 0.5	< 0.3	**5.1**	**1.8**	**9.8**	**67.8**
EW-INF	09/19/2018	< 0.5	**2.7**	**41**	**2.2**	**2.3**	**1.1**	**1**	< 0.5	< 0.3	**4.6**	**1.6**	**11**	**67.5**
EW-INF	10/24/2018	< 0.5	**2.3**	**34**	**2**	**1.8**	**1.1**	**1**	< 0.5	< 0.3	**6.9**	**1.7**	**7.6**	**58.4**
EW-INF	11/14/2018	< 0.5	**1.6**	**32**	**1.6**	**1**	**0.84**	**1.2**	< 0.5	< 0.3	**4.6**	**1.2**	**8**	**52.04**
EW-INF	12/05/2018	< 0.5	**1.7**	**35**	**1.7**	**2**	< 0.5	**0.94**	< 0.5	< 0.3	**5.1**	**1.7**	**7.5**	**55.64**
EW-INF	01/09/2019	< 0.5	**2.3**	**40**	**1.9**	**2.5**	< 0.5	**0.86**	< 0.5	< 0.3	**5.3**	**1.8**	**8.5**	**63.16**
EW-INF	02/20/2019	< 0.5	**1.3**	**30**	**1.4**	**1.9**	**0.89**	**0.69**	< 0.5	< 0.3	**4.3**	**1.2**	**7.3**	**48.98**
EW-INF	03/20/2019	< 0.5	**0.8**	**25**	**1.1**	**1.6**	**1.3**	< 0.3	< 0.5	< 0.3	**4.9**	< 0.2	**4.8**	**39.5**
EW-INF	04/24/2019	< 0.5	**1.2**	**35**	**1.5**	< 0.3	**0.92**	< 0.3	< 0.5	< 0.3	**5**	< 0.2	**6.9 J**	**50.52**
EW-INF	05/29/2019	< 0.5	**1.4**	**26**	**1.8**	< 0.3	**1.7**	**0.94**	< 0.5	< 0.3	**4.6**	**0.86**	**9**	**46.3**
EW-INF	06/12/2019	< 0.5	**1.8**	**35**	**2**	**1.4**	**0.79**	**0.98**	< 0.5	< 0.3	**5**	**1.2**	**8.4**	**56.57**
EW-INF	07/24/2019	< 0.5	**1.6**	**40**	**2.1**	**2.1**	**0.97**	**0.95**	< 0.3	< 0.2	**5.3**	**1.7**	**7.3**	**62.02**
EW-INF	08/28/2019	< 0.5	**1.2**	**34**	**1.4**	**2.5**	**1.5**	**0.45 J**	< 0.3	< 0.2	**5.1**	**1.1**	**7.2**	**54.45**
EW-INF	09/25/2019	< 0.5	**2.7**	**38**	**3.2**	**2.2**	**0.95**	**1.3**	< 0.3	< 0.2	**4.4**	**0.96**	**11**	**64.71**
EW-INF	10/09/2019	< 0.5	**1**	**28**	**1.4**	**2**	**0.99**	**0.8**	< 0.3	< 0.2	**3.6**	**1.4**	**7.8**	**46.99**
EW-INF	11/06/2019	< 0.5	**1.3**	**27**	**1.5**	**1.4**	< 0.4	**0.82**	< 0.3	< 0.2	**4.4**	**1**	**7.3**	**44.72**
EW-INF	02/12/2020	< 0.5	**1.3**	**25**	**1.4 J**	**1.6**	< 0.5	**0.6**	< 0.5	< 0.5	**2.7**	**1 J**	**7.4**	**41**
EW-INF	03/18/2020	< 0.5	**0.62**	**16**	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.5**	< 0.5	**4.8**	**24.53**
HT-INF	12/11/2019	**1.4**	**0.9**	**15**	**0.65**	**1.3**	< 0.4	< 0.4	< 0.3	< 0.2	**1.6**	**0.71**	**6.1**	**27.66**
HT-INF	01/15/2020	**0.9**	**1.2**	**17**	**1.2**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**1.7**	**0.61**	**9.5**	**33.51**
HT-INF	04/15/2020	< 0.5	**0.76**	**26**	**1.3**	**1.9**	**0.63**	**0.52**	< 0.5	< 0.5	**3.9**	**1**	**7**	**43.01**
HT-INF	05/06/2020	< 0.5	**1.3**	**27**	**1.8**	**2.1**	**0.81**	**0.77**	< 0.5	< 0.5	**3.6**	**1.1**	**8.8**	**47.28**
HT-INF	06/10/2020	< 0.5	**0.85**	**30**	**1.8**	< 0.5	< 0.5	**0.63**	< 0.5	< 0.5	**4.2**	**1.6**	**11**	**50.08**
HT-INF	07/08/2020	< 0.5	**0.74**	**29**	**1.6**	**2**	< 0.5	**0.68**	< 0.5	< 0.5	**4.4**	**1.5**	**9.5**	**49.42**
HT-INF	08/05/2020	< 0.5	**0.94**	**28**	**1.3**	**1.7**	< 0.5	**0.49 J**	< 0.5	< 0.5	**4.7**	**1.2**	**7.7 J**	**46.03**
HT-INF	09/09/2020	< 0.5	**1.2**	**37**	**2**	**2.9**	**1**	**0.74**	< 0.5	< 0.5	**6.7**	**1.6**	**9.9**	**63.04**
HT-INF	10/07/2020	< 0.5	**0.82**	**27**	**1.1**	**1.7**	**0.57**	< 0.5	< 0.5	< 0.5	**5.5**	**1.1**	**9**	**46.79**
HT-INF	11/18/2020	< 0.5	**0.99**	**34**	**1.7**	**2.3**	**0.66**	**0.69**	< 0.5	< 0.5	**7.2**	**1.5**	**9.6**	**58.64**
HT-INF	12/02/2020	< 0.5	**0.67**	**21**	**0.94**	**1.4**	**0.46 J**	< 0.5	< 0.5	< 0.5	**3.7**	**0.93**	**5.2 J**	**34.3**
HT-INF	01/13/2021	< 0.5	**0.55**	**18 J**	**0.71**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**3.2**	**0.87**	**8.6 J**	**33.33**
HT-INF	02/17/2021	< 0.5	**0.77**	**21**	**1**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**3.7**	**1.5**	**7.6 J**	**37.17**
HT-INF	03/10/2021	< 0.5	**0.91**	**24**	**1.1**	**1.7**	< 0.5	**0.48 J**	< 0.5	< 0.5	**4.1**	**1.7**	**7.6 J**	**41.59**
HT-INF	04/14/2021	< 0.5	**0.82**	**23**	**0.96**	**1.7**	< 0.5	< 0.5	< 0.5	< 0.5	**3.3**	**1.1**	**8**	**38.88**
HT-INF	05/12/2021	< 0.5	**0.76**	**24**	**0.87**	**1.8**	< 0.5	< 0.5	< 0.5	< 0.5	**4.1**	**1.1**	**7.8**	**40.43**

TABLE 2
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COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
HT-INF	06/09/2021	< 0.5	**0.61**	**22**	**0.84**	**1.2**	< 0.5	**0.52**	< 0.5	< 0.5	**4.2**	**0.95**	**8.8**	**39.12**
HT-INF	07/07/2021	< 0.5	**0.75**	**17**	**0.81**	**1.6**	**0.8**	**0.44 J**	< 0.5	< 0.5	**2.7**	**1.1**	**9**	**34.2**
HT-INF	08/04/2021	< 0.5	**1**	**26**	**1.3 J**	< 0.5	**1.4 J**	**0.64**	< 0.5	< 0.5	**4.9**	**1.6**	**8.6**	**45.44**
HT-INF	09/08/2021	< 0.5	**0.73**	**21**	**0.72**	**1.5**	< 0.5	**0.78**	< 0.5	< 0.5	**3.9**	< 0.5	**7.2**	**35.83**
HT-INF	10/06/2021	< 0.5	**1**	**25**	**0.84**	**2**	**1**	**0.63**	< 0.5	< 0.5	**5.1**	**1.2**	**7.5**	**44.27**
HT-INF	11/03/2021	< 0.5	**0.98**	**24**	**0.9**	**2.2**	**1.1**	**0.7**	< 0.5	< 0.5	**5**	**1.2**	**7.2**	**43.28**
HT-INF	12/01/2021	< 0.5	**0.65**	**24**	**0.8**	**1.9**	**1**	**0.6**	< 0.5	< 0.5	**4.1**	**2.3**	**8**	**43.35**
HT-INF	01/12/2022	< 0.5	**0.95**	**27**	**0.82**	**2**	**1.6**	**0.69**	< 0.5	< 0.5	**6.2**	**1.8**	**6**	**47.06**
HT-INF	02/09/2022	< 0.5	**1.2**	**34**	**1.1**	**2.5**	**2.2**	**0.85**	< 0.5	< 0.5	**6.9**	**2.2**	**6.7**	**57.65**
HT-INF	03/09/2022	< 0.5 J	**0.87**	**26**	**0.7**	**2.3**	**2.4**	**0.58**	< 0.5	< 0.5	**5.8**	**1.5**	**6.8**	**46.95**
HT-INF	04/06/2022	< 0.5	**0.66**	**22**	**0.71**	**2.1**	**0.85**	< 0.5	< 0.5	< 0.5	**4.7**	**1.6**	**7.2**	**39.82**
HT-INF	05/11/2022	< 0.5	< 0.5	**18**	< 0.5	**1.7**	**0.76**	< 0.5	< 0.5	< 0.5	**3**	**0.77**	**14**	**38.23**
HT-INF	06/01/2022	< 0.5	**0.41 J**	**19**	**0.38 J**	< 0.5	**0.64**	< 0.5	< 0.5	< 0.5	**3.3**	**0.7**	**13**	**37.43**
HT-INF	07/06/2022	< 0.5	**0.57**	**17**	**0.58**	**1.2**	**0.67**	< 0.5	< 0.5	< 0.5	**3.7**	**0.5**	**7 J-**	**31.22**
HT-INF	08/03/2022	< 0.5	**0.8**	**22**	**0.67**	**1.5**	**0.93**	**0.59**	< 0.5	< 0.5	**3.8**	**0.62**	**8.4**	**39.31**
HT-INF	09/07/2022	< 0.5	**0.83**	**27**	**0.86 J**	**2**	**1.5**	**0.54**	< 0.5	**0.033**	**5.8**	**0.86**	**8**	**47.423**
HT-INF	10/05/2022	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.031**	< 0.5	< 0.5	**7.4**	**7.431**
HT-INF	11/02/2022	< 0.5	**0.61**	**21**	**0.29 J**	**1.4**	**0.91**	< 0.5	< 0.5	**0.028**	**4.9**	**0.93**	**6.6**	**36.668**
HT-INF	12/07/2022	< 0.5 J	**1.1**	**26**	**0.87**	**1.9**	**1.3 J**	**0.56**	< 0.5	**0.028**	**5.5**	< 0.5	**8.7**	**45.958**
HT-INF	01/04/2023	< 0.5	**0.63**	**24**	**0.64 J**	**2.2**	**1.4**	**0.7**	< 0.5	**0.026**	**5.8**	**1.2**	**7.8**	**44.396**
HT-INF	02/01/2023	< 0.5	**0.53**	**22 J**	**0.44 J**	**1.7**	**0.85**	< 0.5	< 0.5	**0.025**	**5.6**	**1**	**5.8**	**37.945**
HT-INF	03/08/2023	< 0.5	**0.49 J**	**28**	**0.61**	**2.2**	**1.8**	**0.52**	< 0.5	**0.018**	**6.8**	**1.4**	**6**	**47.838**
HT-INF	04/13/2023	< 0.5	**0.56**	**28**	**0.49 J**	**1.8**	**2.6**	**0.51**	< 0.5	**0.024**	**7.2**	**1.2**	**6.1**	**48.484**
HT-INF	05/03/2023	< 0.5	**0.44 J**	**34 J**	**0.53**	**1.9**	**2.1**	**0.7**	< 0.5	**0.024**	**7.6 J**	**1.3**	**5.7**	**54.294**
HT-INF	06/07/2023	< 0.5	**0.42 J**	**12**	< 0.5	**0.73**	< 0.5	**0.42 J**	< 0.5	**0.051**	**1.9**	< 0.5	**7.4**	**22.921**
HT-INF	07/05/2023	< 0.5	**0.75**	**25**	**0.64**	**1.6**	< 0.5	< 0.5	< 0.5	**0.031**	**5.8**	**0.67**	**5.1**	**39.591**
HT-INF	08/02/2023	< 0.5	**0.56**	**27**	**0.65**	**2**	**1.1**	< 0.5	< 0.5	**0.024**	**7.1**	**0.76**	**4.4 J**	**43.594**
HT-INF	09/05/2023	< 0.5	**0.66**	**28**	**0.5**	**2.1**	**1.4**	**0.48 J**	< 0.5	**0.037 J**	**6.4**	**1.1**	**4.8 J**	**45.477**
HT-INF	10/11/2023	< 0.5 J	**1.2**	**46**	**0.7**	**4.1**	**2**	**0.57**	< 0.5	**0.037**	**9.6**	**2.3**	**4.8**	**71.307**
HT-INF	11/01/2023	< 0.5	< 0.5	**11**	< 0.5	**0.67**	**0.66**	< 0.5	< 0.5	**0.034**	**3.2**	**0.51**	**5.3**	**21.374**
HT-INF	12/06/2023	< 0.5	**0.66**	**36**	**0.54**	**2.1**	< 0.5	< 0.5	< 0.5	**0.033**	**8.6**	**1.6**	**5.2**	**54.733**
HT-INF	01/03/2024	< 0.5	**0.44 J**	**24**	**0.38 J**	**1.4**	**1.2**	< 0.5	< 0.5	**0.032**	**6.1**	**1.2**	**5.2**	**39.952**
HT-INF	02/07/2024	< 0.5	**0.74**	**35**	**0.62**	**2**	**1**	**0.54**	< 0.5	**0.032**	**8**	**1.2**	**6.6**	**55.732**
HT-INF	03/06/2024	< 0.5	**0.6**	**28**	**0.5**	**1.8**	**0.87**	**0.4 J**	< 0.5	**0.027**	**6.7**	**0.98**	**4.3**	**44.177**
HT-INF	04/03/2024	< 0.5	**0.65**	**31**	**0.57**	**2.5**	**1.4**	< 0.5	< 0.5	**0.033**	**7.7**	**1.1**	**3.9**	**48.853**
HT-INF	05/08/2024	< 0.5	**0.33 J**	**35**	< 0.5	**2.1**	**1.5**	< 0.5	< 0.5	**0.012**	**9.6**	**1.2**	**4.2 J**	**53.942**
HT-INF	06/12/2024	< 0.5	**0.61**	**31**	< 0.5	**1.6**	**0.79**	< 0.5	< 0.5	**0.04**	**6.1**	**0.88**	**4.8**	**45.82**
HT-INF	07/03/2024	< 0.5	**0.73**	**36 J**	**0.45 J**	**2.2**	**1.9**	**0.44 J**	< 0.5	**0.043 J**	**8**	**1.3**	**4.8**	**55.863**
HT-INF	08/06/2024	< 0.5	**0.71**	**41**	**0.43 J**	**2.4**	**3.1 J**	**0.56**	< 0.5	**0.032**	**9.3**	**1.3**	**4**	**62.832**
HT-INF	09/11/2024	< 0.5	**0.59**	**38**	**0.38 J**	**1.9**	**2.4 J**	**0.5**	< 0.5	**0.04**	**9.3**	**1.1**	**3.8**	**58.01**
HT-INF	10/03/2024	< 0.5	**0.7**	**40**	**0.46 J**	**2.4**	**1.7**	**0.78**	< 0.5	**0.042**	**8.8**	**0.89**	**4.4**	**60.172**

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Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
HT-INF	11/05/2024	< 0.5	**0.54**	**29**	**0.34 J**	**1.5**	**1.6**	< 0.5	< 0.5	**0.029**	**7.5**	**0.79**	**2.2**	**43.499**
HT-INF	12/09/2024	< 0.5	**0.66**	**27**	**0.39 J**	**1.8**	**1.6**	< 0.5	< 0.5	**0.048**	**6.4**	**0.72**	**3.2**	**41.818**
HIPOXD	04/25/2012	< 0.5	< 0.5	< 0.5	< 0.5	**120**	**4.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96 J	**124.9**
HIPOXD	05/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	**130**	**4.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.97	**134.9**
HIPOXD	07/23/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	ND
HIPOXD	08/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
HIPOXD	08/24/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
HIPOXD	09/07/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
HIPOXD	09/14/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95 J	ND
LGACM	03/15/2012	< 0.5	**1.4**	**10**	**4.5**	**2.2**	< 0.5	< 0.5	< 0.5	< 0.5	**0.7**	**0.98**	**16**	**36**
LGACM	04/25/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96 J	ND
LGACM	05/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.97	ND
LGACM	06/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96 J	ND
LGACM	07/05/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	ND
LGACM	07/23/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACM	08/07/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACM	08/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	ND
LGACM	08/24/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACM	09/07/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4.7**	**4.7**
LGACM	09/14/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.7 J**	**7.7**
LGACM	10/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**18**	**18**
LGACM	11/20/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	ND
LGACM	12/14/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.95	ND
LGACM	01/16/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.1**	**2.1**
LGACM	02/28/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.7**	**3.7**
LGACM	04/05/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**5.2**	**5.2**
LGACM	04/23/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**5.3**	**5.3**
LGACM	05/21/2013	< 0.5	< 0.2	< 0.2	**0.46 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2**	**2.46**
LGACM	06/25/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACM	07/30/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.8 J**	**1.8**
LGACM	08/29/2013	< 0.5	< 0.2	< 0.2	**0.43 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.2 J**	**1.63**
LGACM	09/24/2013	< 0.5	< 0.2	< 0.2	**1**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.2 J**	**2.2**
LGACM	10/29/2013	< 0.5	< 0.2	< 0.2	**0.43 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.6**	**3.03**
LGACM	11/25/2013	< 0.5	< 0.2	< 0.2	**0.95**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.4**	**3.35**
LGACM	12/16/2013	< 0.5	< 0.2	< 0.2 J	**1.3**	**0.64**	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.8**	**4.74**
LGACM	02/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACM	04/29/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.4 J**	**1.4**
LGACM	05/29/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.4 J**	**1.4**
LGACM	06/26/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.7 J**	**1.7**
LGACM	07/31/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**2.1**	**2.1**
LGACM	08/27/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND

TABLE 2
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COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
LGACM	09/22/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**5.1**	**5.1**
LGACM	10/23/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.1**	**3.1**
LGACM	11/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**5**	**5**
LGACM	12/10/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**5.9**	**5.9**
LGACM	01/20/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.1**	**9.1**
LGACM	02/17/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**12**	**12**
LGACM	03/26/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**14**	**14**
LGACM	04/30/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**13**	**13**
LGACM	05/28/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**8.8**	**8.8**
LGACM	06/16/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**13**	**13**
LGACM	07/07/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**16**	**16**
LGACM	08/26/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**14**	**14**
LGACM	09/16/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**18**	**18**
LGACM	10/14/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**22**	**22**
LGACM	11/18/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**8.2**	**8.2**
LGACM	12/09/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**11**	**11**
LGACM	01/13/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.3**	**9.3**
LGACM	02/17/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.8**	**9.8**
LGACM	03/23/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**12**	**12**
LGACM	04/20/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**15**	**15**
LGACM	05/18/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**12**	**12**
LGACM	06/08/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.5**	**9.5**
LGACM	07/20/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.6**	**9.6**
LGACM	08/17/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**9.6**	**9.6**
LGACM	09/28/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**8.2**	**8.2**
LGACM	10/12/2016	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**8.8**	**8.8**
LGACE	04/25/2012	< 0.5	< 0.5	< 0.5	< 0.5	**54**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96 J	**54**
LGACE	05/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACE	06/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95 J	ND
LGACE	07/05/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.97	ND
LGACE	07/23/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACE	08/07/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.97	ND
LGACE	08/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACE	08/24/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACE	09/07/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.96	ND
LGACE	09/14/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1 J**	**1**
LGACE	10/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	ND
LGACE	11/20/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	**1.8**
LGACE	12/14/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13**	**13**
LGACE	01/16/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4**	**4**
LGACE	02/28/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	**1.1**

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Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
LGACE	04/05/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.9**	**1.9**
LGACE	04/23/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**5.4**	**5.4**
LGACE	05/21/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.2**	**3.2**
LGACE	06/25/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	07/30/2013	**0.52**	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.5 J**	**2.02**
LGACE	08/29/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.2 J**	**1.2**
LGACE	09/24/2013	< 0.5	< 0.2	< 0.2	**2.3**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.3 J**	**3.6**
LGACE	10/29/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	11/25/2013	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.2**	**3.2**
LGACE	12/16/2013	< 0.5	< 0.2	< 0.2 J	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**3.3**	**3.3**
LGACE	01/27/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.1 J**	**1.1**
LGACE	02/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	03/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1 J**	**1**
LGACE	04/29/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.5 J**	**1.5**
LGACE	05/29/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1 J**	**1**
LGACE	06/26/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	07/31/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	08/27/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	09/22/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	10/23/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	11/24/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	12/10/2014	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	01/20/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	02/17/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	03/26/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	04/30/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	05/28/2015	< 0.5	**4.6**	**31**	**3.8**	**2**	**2.3**	**2**	< 0.5	< 0.3	**2.5**	**2.3**	**18**	**68.5**
LGACE	06/16/2015	< 0.5	**1.4**	**12**	**1.5**	**1.1 J**	**1.3**	**0.75**	< 0.5	< 0.3	**0.83**	**0.7**	**9**	**28.58**
LGACE	07/07/2015	< 0.5	**0.96**	**17**	**2.2**	**1.1**	**2.8**	**1.1**	< 0.5	< 0.3	**1.1**	**0.68**	**15**	**41.94**
LGACE	08/26/2015	< 0.5	**0.4 J**	**6.5**	**0.74**	< 0.3	**0.66**	**0.37 J**	< 0.5	< 0.3	**0.47 J**	**0.37 J**	**1.8 J**	**11.31**
LGACE	09/16/2015	< 0.5	< 0.2	**1.9**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	**0.28 J**	< 1	**2.18**
LGACE	10/14/2015	< 0.5	< 0.2	**2.3**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	**1.9 J**	**4.2**
LGACE	11/18/2015	< 0.5	**1.3**	**17**	**0.82**	**1.7**	**1.2**	< 0.3	< 0.5	< 0.3	**2.5**	**0.75**	**12**	**37.27**
LGACE	12/09/2015	< 0.5	< 0.2	< 0.2	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	ND
LGACE	01/13/2016	< 0.5	< 0.2	**2**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**2**
LGACE	02/17/2016	< 0.5	< 0.2	**4.3**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**4.3**
LGACE	03/23/2016	< 0.5	< 0.2	**1.4**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**1.4**
LGACE	04/20/2016	< 0.5	< 0.2	**2**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**2**
LGACE	05/18/2016	< 0.5	< 0.2	**4.2**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	< 0.4	< 0.2	< 1	**4.2**
LGACE	06/08/2016	< 0.5	< 0.2	**3.5**	< 0.2	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.55**	< 0.2	< 1	**4.05**
LGACE	07/20/2016	< 0.5	**0.6**	**6**	**0.52**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.91**	< 0.2	< 1	**8.03**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
LGACE	08/17/2016	< 0.5	< 0.2	**4.6**	**0.37 J**	< 0.3	< 0.5	< 0.3	< 0.5	< 0.3	**0.69**	< 0.2	< 1	**5.66**
LGACE	09/28/2016	< 0.5	**1.5**	**26**	**1.4**	**1.6**	**0.64**	**1**	< 0.5	< 0.3	**3**	**1.1**	**8.1**	**44.34**
LGACE	10/12/2016	< 0.5	**2.2**	**33**	**1.7**	**1.9**	**1**	**1.3**	< 0.5	< 0.3	**4.3**	**2.3**	**9**	**56.7**
TOTAL-EFF	07/31/2014	< 0.5	**4.1**	**28**	**2.7**	**1.1**	**2**	**2.2**	< 0.5	< 0.3	**2**	**2.9**	**14**	**59**
TOTAL-EFF	08/27/2014	< 0.5	**3.3**	**26**	**3.2**	**1.6**	**1.5**	**1.4**	< 0.5	< 0.3	**1.3**	**1.8**	**16**	**56.1**
TOTAL-EFF	09/22/2014	< 0.5	**3.1**	**29**	**3.2**	**1.6**	**1.9**	**1.8**	< 0.5	< 0.3	**1.9**	**2**	**16**	**60.5**
TOTAL-EFF	10/23/2014	< 0.5	**3.2**	**33**	**3.6**	**1.7**	**2.1**	**2**	< 0.5	< 0.3	**2.1**	**2.2**	**16**	**65.9**
TOTAL-EFF	11/24/2014	< 0.5	**3.6**	**38**	**4.4**	**2.8**	**3.2**	**2.6**	< 0.5	< 0.3	**2.6**	**2.8**	**16**	**76**
TOTAL-EFF	12/10/2014	< 0.5	**2.6**	**35**	**3.6**	**1.4**	**2.2**	**2.2**	< 0.5	< 0.3	**2.4**	**2.2**	**16**	**67.6**
TOTAL-EFF	01/20/2015	< 0.5	**2.4**	**30**	**2.5**	**1.3**	**1.9**	**2**	< 0.5	< 0.3	**1.9**	**2**	**16**	**60**
TOTAL-EFF	02/17/2015	< 0.5	**2.9**	**33**	**3**	**1.4**	**2.1**	**2**	< 0.5	< 0.3	**2.2**	**2**	**16**	**64.6**
TOTAL-EFF	03/26/2015	< 0.5	**2.7**	**26**	**2.3**	**1.7**	**2.1**	**1.5**	< 0.5	< 0.3	**1.6**	**1.7**	**16**	**55.6**
TOTAL-EFF	05/28/2015	< 0.5	**4.4**	**29**	**3.6**	**2.1**	**2.1**	**1.7**	< 0.5	< 0.3	**2.4**	**2.1**	**19**	**66.4**
TOTAL-EFF	06/16/2015	< 0.5	**4.5**	**29**	**3.6**	**2.9 J**	**3**	**1.8**	< 0.5	< 0.3	**2.7**	**2**	**19**	**68.5**
TOTAL-EFF	07/07/2015	< 0.5	**4.2**	**40**	**4.4**	**2.4**	**5.1**	**3.5**	**0.5**	< 0.3	**3.1**	**2.8**	**19**	**85**
TOTAL-EFF	08/26/2015	< 0.5	**3.5**	**41**	**4.1**	**1.5**	**3**	**2.2**	< 0.5	< 0.3	**2.9**	**2.9**	**18**	**79.1**
TOTAL-EFF	09/16/2015	< 0.5	**3.3**	**33**	**3.9**	**1.1**	**3.9**	**2.4**	< 0.5	< 0.3	**2.1**	**3.2**	**17**	**69.9**
TOTAL-EFF	10/14/2015	< 0.5	**2.8**	**30**	**2.9**	**1.1**	**2**	**2.1**	< 0.5	< 0.3	**3**	**2.7**	**11**	**57.6**
TOTAL-EFF	11/18/2015	< 0.5	**4**	**32**	**1.3**	**2.7**	**1.4**	**1.1**	< 0.5	< 0.3	**4**	**1.8**	**12**	**60.3**
TOTAL-EFF	12/09/2015	< 0.5	**3.5**	**27**	**1.2**	**2.1**	**1**	**1.2**	< 0.5	< 0.3	**3.5**	**1.8**	**9.8**	**51.1**
TOTAL-EFF	01/13/2016	< 0.5	**3.9**	**30**	**1.7**	**3**	< 0.5	**0.78**	< 0.5	< 0.3	**3.2**	**2.2**	**12**	**56.78**
TOTAL-EFF	02/17/2016	< 0.5	**2.7**	**32**	< 0.2	**2.5**	**1.3**	< 0.3	< 0.5	< 0.3	**4.3**	**1.7**	**14**	**58.5**
TOTAL-EFF	03/23/2016	< 0.5	**3.7**	**35**	**0.5**	**2.4**	**0.52**	**0.5**	< 0.5	< 0.3	**4.9**	**1.8**	**12**	**61.32**
TOTAL-EFF	04/20/2016	< 0.5	**2.4**	**29**	**1.3**	< 0.3	**0.89**	**1.1**	< 0.5	< 0.3	**4.1**	**2**	**15**	**55.79**
TOTAL-EFF	05/18/2016	< 0.5	**1.5**	**33**	**0.99**	**2.7**	< 0.5	< 0.3	< 0.5	< 0.3	**4.1**	**1.7**	**16**	**59.99**
TOTAL-EFF	06/08/2016	< 0.5	**3.4**	**35**	**1.8**	**2.5**	**0.98**	**1.5**	< 0.5	< 0.3	**5.4**	**2.6**	**10**	**63.18**
TOTAL-EFF	07/20/2016	< 0.5	**3.3**	**34**	**1.7**	**2.4**	**0.9**	**1.3**	< 0.5	< 0.3	**5**	**2**	**8.7**	**59.3**
TOTAL-EFF	08/17/2016	< 0.5	**3.2**	**40**	**2**	**2.6**	**1.2**	**1.6**	< 0.5	< 0.3	**5.3**	**2.5**	**11**	**69.4**
TOTAL-EFF	09/28/2016	< 0.5	**2.7**	**36**	**2**	**2**	**0.99**	**1.6**	< 0.5	< 0.3	**4.4**	**1.7**	**9.6**	**60.99**
TOTAL-EFF	10/12/2016	< 0.5	**3.2**	**40**	**2.2**	**2.8**	**1.2**	**1.6**	< 0.5	< 0.3	**5.7**	**2.4**	**12**	**71.1**
TOTAL-EFF	11/16/2016	< 0.5	**2.6**	**41**	**2.1**	**1.6**	**1.1**	**2.2**	< 0.5	< 0.3	**6.3**	**2.7**	**13**	**72.6**
TOTAL-EFF	12/14/2016	< 0.5	**2.7**	**51**	**1.8**	**2.4**	**1.4**	**1.7**	< 0.5	< 0.3	**6.2**	**2.4**	**11**	**80.6**
TOTAL-EFF	01/25/2017	< 0.5	**3.1**	**33**	**2**	**1.6**	**0.81**	**1.2**	< 0.5	< 0.3	**3.8**	**1.3**	**12**	**58.81**
TOTAL-EFF	02/22/2017	< 0.5	**1.9**	**38**	**1.8**	**1.8**	**0.91**	**1.1**	< 0.5	< 0.3	**4.4**	**2.4**	**12**	**64.31**
TOTAL-EFF	03/15/2017	< 0.5	**1.7**	**38**	**1.8**	**1.9**	**1.2**	**1.2**	< 0.5	< 0.3	**5.7**	**1.3**	**12**	**64.8**
TOTAL-EFF	04/12/2017	< 0.5	**1.6**	**40**	**1.7**	**1.3**	< 0.5	**0.75**	< 0.5	< 0.3	**3.1**	**1.3**	**12**	**61.75**
TOTAL-EFF	05/17/2017	< 0.5	**1.4**	**30**	**1.4**	**1.7**	**0.98**	< 0.3	< 0.5	< 0.3	**3.5**	**0.95**	**11**	**50.93**
TOTAL-EFF	06/21/2017	< 0.5	**2.9**	**37**	**1.5**	**0.83**	**0.57**	**0.9**	< 0.5	< 0.3	**3.5**	**0.99**	**15**	**63.19**
TOTAL-EFF	07/26/2017	< 0.5	**1.4**	**47**	**1.8**	**1.3**	**1.2**	**1.3**	< 0.5	< 0.3	**4.4**	**1.7**	**11**	**71.1**
TOTAL-EFF	08/16/2017	< 0.5	**1.4**	**44**	**1.7**	**1.6**	**1**	**1.2**	< 0.5	< 0.3	**3.4**	**1.3**	**11**	**66.6**
TOTAL-EFF	09/22/2017	< 0.5	**3.2**	**69**	**3.4**	**2.5**	**2.3**	**1.8**	< 0.5	< 0.3	**5.5**	**2**	**11**	**100.7**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
TOTAL-EFF	10/11/2017	< 0.5	**2.3**	**44**	**2.2**	**2.2**	**0.77**	**1.3**	< 0.5	< 0.3	**4.3**	**2**	**11**	**70.07**
TOTAL-EFF	11/29/2017	< 0.5	**1.8**	**39**	**1.8**	**1.9**	**0.53**	**0.83**	< 0.5	< 0.3	**3**	**1.1**	**9.3**	**59.26**
TOTAL-EFF	12/13/2017	< 0.5	**4.4**	**46**	**2.9**	**1.8**	< 0.5	**1.1**	< 0.5	< 0.3	**3.9**	**0.89**	**13**	**73.99**
TOTAL-EFF	01/31/2018	< 0.5	**1.1**	**37**	**1.5**	**1.9**	**0.5**	**0.67**	< 0.5	< 0.3	**2.6**	**1.2**	**9.4**	**55.87**
TOTAL-EFF	02/28/2018	< 0.5	**1.1**	**36**	**1.4**	**1.9**	**0.68**	**1.1**	< 0.5	< 0.3	**3.6**	**1.5**	**7.3**	**54.58**
TOTAL-EFF	03/28/2018	< 0.5	**2.9**	**37**	**2**	**2**	< 0.5	**1**	< 0.5	< 0.3	**2.8**	**1.4**	**10**	**59.1**
TOTAL-EFF	04/30/2018	< 0.5	**1**	**29**	**1.6**	**2.6**	**0.85**	**0.87**	< 0.5	< 0.3	**3.6**	**1.4**	**6**	**46.92**
TOTAL-EFF	05/16/2018	< 0.5	**0.85**	**21**	**1.5**	**2.4**	< 0.5	**1**	< 0.5	< 0.3	**4.4**	**0.76**	**5.2**	**37.11**
TOTAL-EFF	06/20/2018	< 0.5	**3**	**35**	**2.6**	**2.3**	< 0.5	**0.98**	< 0.5	< 0.3	**3.2**	**1.2**	**8.3**	**56.58**
TOTAL-EFF	07/18/2018	< 0.5	**2.8**	**42**	**3**	**3.8**	**1.1**	**1.9**	< 0.5	< 0.3	**5.7**	**3.2**	**7.3**	**70.8**
TOTAL-EFF	08/15/2018	< 0.5	**2.6**	**38**	**2.3**	**1.8**	**0.78**	**0.88**	< 0.5	< 0.3	**4**	**1.4**	**10**	**61.76**
TOTAL-EFF	09/19/2018	< 0.5	**2.5**	**38**	**2.1**	**2.1**	**0.84**	**0.97**	< 0.5	< 0.3	**4.1**	**1.5**	**10**	**62.11**
TOTAL-EFF	10/24/2018	< 0.5	**2.2**	**33**	**1.7**	**1.6**	**1.8**	**1.1**	< 0.5	< 0.3	**7.1**	**1.6**	**7.8**	**57.9**
TOTAL-EFF	11/14/2018	< 0.5	**1.3**	**26**	**1.3**	**1**	**0.56**	**0.77**	< 0.5	< 0.3	**3.3**	**0.91**	**8.4**	**43.54**
TOTAL-EFF	12/05/2018	< 0.5	**1.1**	**29**	**1.5**	**1.7**	< 0.5	**0.64**	< 0.5	< 0.3	**3.6**	**1.3**	**7.1**	**45.94**
TOTAL-EFF	01/09/2019	< 0.5	**1.6**	**31**	**1.4**	**1.7**	< 0.5	**0.6**	< 0.5	< 0.3	**3.5**	**1.5**	**8.4**	**49.7**
TOTAL-EFF	02/20/2019	< 0.5	**0.87**	**24**	**1.1**	**1.8**	< 0.5	< 0.3	< 0.5	< 0.3	**2.6**	**0.82**	**7.4**	**38.59**
TOTAL-EFF	03/20/2019	< 0.5	**0.53**	**21**	**0.8**	**1.5**	< 0.5	< 0.3	< 0.5	< 0.3	**3.8**	< 0.2	**4.9**	**32.53**
TOTAL-EFF	04/24/2019	< 0.5	**0.81**	**28**	**1.1**	**1.6**	< 0.5	< 0.3	< 0.5	< 0.3	**3.1**	< 0.2	**7.2 J**	**41.81**
TOTAL-EFF	05/29/2019	< 0.5	**1.2**	**24**	**1.6**	< 0.3	**1.1**	**0.67**	< 0.5	< 0.3	**3.4**	**0.68**	**9.6**	**42.25**
TOTAL-EFF	06/12/2019	< 0.5	**1.6**	**32**	**1.9**	**1.4**	**0.51**	**0.79**	< 0.5	< 0.3	**3.7**	**0.89**	**8.6**	**51.39**
TOTAL-EFF	07/24/2019	< 0.5	**1.6**	**38**	**1.8**	**1.8**	**0.75**	**0.87**	< 0.3	< 0.2	**5**	**1.5**	**7.4**	**58.72**
TOTAL-EFF	08/28/2019	< 0.5	**0.91**	**28**	**1.2**	**2.1**	**0.84**	< 0.4	< 0.3	< 0.2	**3.2**	**0.76**	**7.3**	**44.31**
TOTAL-EFF	09/25/2019	< 0.5	**2.8**	**39**	**3.2**	**2.2**	**1.2**	**1.5**	< 0.3	< 0.2	**5.6**	**1.1**	**12**	**68.6**
TOTAL-EFF	10/09/2019	< 0.5	**0.8**	**22**	**1.1**	**1.4**	**0.55**	**0.51**	< 0.3	< 0.2	**3**	**0.83**	**7.6**	**37.79**
TOTAL-EFF	11/06/2019	< 0.5	**0.79**	**16**	**1**	**1**	< 0.4	**0.51**	< 0.3	< 0.2	**1.5**	**0.68**	**7.7**	**29.18**
TOTAL-EFF	12/11/2019	**2**	**1.1**	**13**	**0.48 J**	**1.1**	< 0.4	< 0.4	< 0.3	< 0.2	**1.2**	**0.41 J**	**6.2**	**25.49**
TOTAL-EFF	01/15/2020	**0.99**	**1.2**	**16**	**1.1**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	**0.46 J**	**9.9**	**32.25**
TOTAL-EFF	02/12/2020	< 0.5	**1.1**	**21**	**1.2 J**	**1.3**	< 0.5	**0.47 J**	< 0.5	< 0.5	**2**	**0.57 J**	**7.9**	**35.54**
TOTAL-EFF	03/18/2020	< 0.5	**0.73**	**18**	**0.71**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	**4.8**	**26.84**
TOTAL-EFF	04/15/2020	< 0.5	**0.72**	**24**	**1.2**	**1.9**	< 0.5	< 0.5	< 0.5	< 0.5	**3**	**0.64**	**6.8**	**38.26**
TOTAL-EFF	05/06/2020	< 0.5	**1.3**	**25**	**1.8**	**1.9**	**0.58**	**0.67**	< 0.5	< 0.5	**3.3**	**0.94**	**8.7**	**44.19**
TOTAL-EFF	06/10/2020	< 0.5	**0.86**	**29**	**1.7**	< 0.5	< 0.5	**0.52**	< 0.5	< 0.5	**3.3**	**1.3**	**11**	**47.68**
TOTAL-EFF	07/08/2020	< 0.5	**0.72**	**28**	**1.5**	**1.8**	< 0.5	**0.48 J**	< 0.5	< 0.5	**3.4**	**1.2**	**9.3**	**46.4**
TOTAL-EFF	08/05/2020	< 0.5	**0.89**	**26**	**1.2**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	**3.7**	**0.97**	**7.6**	**41.86**
TOTAL-EFF	09/09/2020	< 0.5	**1.3**	**38**	**2.1**	**2.9**	**0.97**	**0.71**	< 0.5	< 0.5	**6.8**	**1.6**	**9.3**	**63.68**
TOTAL-EFF	10/07/2020	< 0.5	**0.88**	**29**	**1.1**	**1.6**	**0.58**	< 0.5	< 0.5	< 0.5	**5.9**	**1.2**	**9.2**	**49.46**
TOTAL-EFF	11/18/2020	< 0.5	**0.95**	**29**	**1.4**	**2.1**	**0.44 J**	**0.51**	< 0.5	< 0.5	**5.3**	**1.2**	**9.7**	**50.6**
TOTAL-EFF	12/02/2020	< 0.5	**0.68**	**20**	**0.95**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	**3.2**	**0.82**	**7.9**	**34.75**
TOTAL-EFF	01/13/2021	< 0.5	**0.56**	**18**	**0.73**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**3.1**	**0.83**	**8.6 J**	**33.22**
TOTAL-EFF	02/17/2021	< 0.5	**0.74**	**20**	**1**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	**3.1**	**1.3**	**7.5 J**	**35.14**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
TOTAL-EFF	03/10/2021	< 0.5	**0.89**	**23**	**0.98**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**3.4**	**1.4**	**7.7 J**	**38.97**
TOTAL-EFF	04/14/2021	< 0.5	**0.9**	**22**	**0.98**	**2.1**	< 0.5	< 0.5	< 0.5	< 0.5	**2.9**	**0.86**	**8.1**	**37.84**
TOTAL-EFF	05/12/2021	< 0.5	**0.65**	**22**	**0.78**	**1.8**	< 0.5	< 0.5	< 0.5	< 0.5	**3.6**	**0.95**	**7.7**	**37.48**
TOTAL-EFF	06/09/2021	< 0.5	**0.63**	**21**	**0.83**	**1.1**	< 0.5	**0.43 J**	< 0.5	< 0.5	**3.6**	**0.76**	**8.9**	**37.25**
TOTAL-EFF	07/07/2021	< 0.5	**0.7**	**17**	**0.88**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2**	**0.75**	**9.2**	**32.13**
TOTAL-EFF	08/04/2021	< 0.5	**1.1**	**28**	**1.4 J**	**2.7**	< 0.5	**0.47 J**	< 0.5	< 0.5	**4.2**	**1.4**	**8.6**	**47.87**
TOTAL-EFF	09/08/2021	< 0.5	**0.61**	**17 J+**	**0.64 J+**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.8 J+**	< 0.5	**7.1**	**28.25**
TOTAL-EFF	10/06/2021	< 0.5	**1**	**26**	**0.92**	**2**	**0.6**	**0.49 J**	< 0.5	< 0.5	**4.1**	**0.95**	**7.7**	**43.76**
TOTAL-EFF	11/03/2021	< 0.5	**0.88**	**22**	**0.89**	**2.1**	**0.61**	**0.48 J**	< 0.5	< 0.5	**3.8**	**0.76**	**6.8**	**38.32**
TOTAL-EFF	12/01/2021	< 0.5	**0.67**	**25**	**0.71**	**2**	**0.59**	< 0.5	< 0.5	< 0.5	**3.5**	**2.2**	**8**	**42.67**
TOTAL-EFF	01/12/2022	< 0.5	**0.88**	**26**	**0.84**	**2.1**	**0.66**	< 0.5	< 0.5	< 0.5	**5.1**	**1.2**	**6.1**	**42.88**
TOTAL-EFF	02/09/2022	< 0.5	**0.82**	**26**	**0.88**	**2.1**	**0.94**	**0.47 J**	< 0.5	< 0.5	**4.6**	**1.1**	**6.2**	**43.11**
TOTAL-EFF	03/09/2022	< 0.5 J	**0.7**	**28**	**0.89**	**2.3**	**1.5**	**0.53**	< 0.5	< 0.5	**5**	**1.4**	**6.8**	**47.12**
TOTAL-EFF	04/06/2022	< 0.5	**0.67**	**21**	**0.7**	**1.9**	< 0.5	< 0.5	< 0.5	**0.24 J**	**3.3**	**1**	**7.3**	**36.11**
TOTAL-EFF	05/11/2022	< 0.5	< 0.5	**18**	**0.32 J**	**1.4**	**0.4 J**	< 0.5	< 0.5	< 0.5	**2.7**	**0.57**	**15**	**38.39**
TOTAL-EFF	06/01/2022	< 0.5	**0.56**	**17**	< 0.5	**1.7**	< 0.5	< 0.5	< 0.5	< 0.5	**2.1**	**0.65**	**16**	**38.01**
TOTAL-EFF	07/06/2022	< 0.5	**0.58**	**18**	**0.6**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**3.1**	**0.4 J**	**7.1 J-**	**31.08**
TOTAL-EFF	08/03/2022	< 0.5	**0.81**	**23**	**0.77**	**1.7**	< 0.5	**0.4 J**	< 0.5	< 0.5	**2.9**	**0.48 J**	**8.6**	**38.66**
TOTAL-EFF	09/07/2022	< 0.5	**0.8**	**27**	**0.83 J**	**1.8**	< 0.5	< 0.5	< 0.5	**0.033**	**4.6**	**0.71**	**8**	**43.773**
TOTAL-EFF	10/05/2022	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.028**	< 0.5	< 0.5	**7.4**	**7.428**
TOTAL-EFF	11/02/2022	< 0.5	**0.45 J**	**21**	< 0.5	**1.6**	**0.7**	< 0.5	< 0.5	**0.025**	**4.6**	**0.99**	**7**	**36.365**
TOTAL-EFF	12/07/2022	< 0.5 J	**1.8**	**38**	**1**	**2.6**	**1.5 J**	**1.1**	< 0.5	**0.037**	**6.7**	< 0.5	**8.6**	**61.337**
TOTAL-EFF	01/04/2023	< 0.5	**0.48 J**	**21**	**0.62 J**	**2**	**0.88**	**0.57**	< 0.5	**0.025**	**4.6**	**1**	**8.1**	**39.275**
TOTAL-EFF	02/01/2023	< 0.5	< 0.5	**18**	**0.37 J**	**1.3**	**0.54**	< 0.5	< 0.5	**0.027**	**3**	**0.81**	**5.9**	**29.947**
TOTAL-EFF	03/08/2023	< 0.5	**0.36 J**	**22**	**0.46 J**	**2**	**1**	< 0.5	< 0.5	**0.017**	**4.5**	**0.95**	**6.1**	**37.387**
TOTAL-EFF	04/13/2023	< 0.5	**0.33 J**	**26**	**0.47 J**	**2**	**1.9**	< 0.5	< 0.5	**0.025**	**5.7**	**1.1**	**5.8**	**43.325**
TOTAL-EFF	05/03/2023	< 0.5	**0.36 J**	**28**	**0.52**	**1.9**	**1.4**	< 0.5	< 0.5	**0.025**	**7.2**	**1**	**5.8**	**46.205**
TOTAL-EFF	06/07/2023	< 0.5 J	**0.4 J**	**11**	**0.21 J**	**0.76**	< 0.5	< 0.5	< 0.5	**0.05**	**1.6**	< 0.5	**7.8**	**21.82**
TOTAL-EFF	07/05/2023	< 0.5	**0.57**	**22**	**0.6**	**1.5**	< 0.5	**0.43 J**	< 0.5	**0.033**	**4.6**	**0.6**	**5.2**	**35.533**
TOTAL-EFF	08/02/2023	< 0.5	**0.42 J**	**21**	**0.47 J**	**1.6**	**0.63**	< 0.5	< 0.5	**0.023**	**4.7**	**0.46 J**	**4.9 J**	**34.203**
TOTAL-EFF	09/05/2023	< 0.5	**0.5**	**22**	**0.4 J**	**2**	**1**	< 0.5	< 0.5	**0.033**	**4.7**	**0.82**	**5 J**	**36.453**
TOTAL-EFF	10/11/2023	< 0.5 J	**0.85**	**37**	**0.56**	**3**	**1.3**	**0.45 J**	< 0.5	**0.037**	**7.4**	**1.8**	**5**	**57.397**
TOTAL-EFF	11/01/2023	< 0.5	**0.51**	**28**	**0.46 J**	**1.9**	**1**	**0.45 J**	< 0.5	**0.032**	**6.3**	**1.1**	**5**	**44.752**
TOTAL-EFF	12/06/2023	< 0.5	**0.52**	**30**	**0.46 J**	**2**	< 0.5	< 0.5	< 0.5	**0.031**	**6.3**	**1.1**	**5.1**	**45.511**
TOTAL-EFF	01/03/2024	< 0.5	**0.43 J**	**24**	**0.34 J**	**1.3**	**1.1**	< 0.5	< 0.5	**0.028**	**5.8**	**1.1**	**5.2**	**39.298**
TOTAL-EFF	02/07/2024	< 0.5	**0.67**	**32**	**0.61**	**1.8**	**0.77**	**0.52**	< 0.5	**0.035**	**6.9**	**1.2**	**6.5**	**51.005**
TOTAL-EFF	03/06/2024	**0.67**	**0.54**	**24**	**0.42 J**	**1.5**	**0.6**	< 0.5	< 0.5	**0.032**	**5.4**	**1.1**	**4.3**	**38.562**
TOTAL-EFF	04/03/2024	< 0.5	**0.55**	**27**	**0.43 J**	**2.3**	**0.98**	< 0.5	< 0.5	**0.03**	**6.3**	**0.9**	**3.8**	**42.29**
TOTAL-EFF	05/08/2024	< 0.5	**0.32 J**	**28**	**0.24 J**	**1.8**	**0.83**	< 0.5	< 0.5	**0.011**	**6.7**	**0.85**	**4 J**	**42.751**
TOTAL-EFF	06/12/2024	< 0.5	**0.53**	**28**	**0.42 J**	**1.5**	**0.56**	< 0.5	< 0.5	**0.039**	**4.5**	**0.73**	**4.6**	**40.879**

TABLE 2
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location ID	Sample Date	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	VC µg/L	1,1-DCE µg/L	1,2-DCP µg/L	1,2,3-TCP µg/L	tDCE µg/L	Benzene µg/L	1,4-Dioxane µg/L	Total COCs µg/L
TOTAL-EFF	07/03/2024	< 0.5	**0.76**	**37**	**0.53**	**2.4**	**1.8**	**0.56**	< 0.5	**0.045 J**	**8.2**	**1.5**	**4.6**	**57.395**
TOTAL-EFF	08/06/2024	< 0.5	**0.63**	**36**	**0.38 J**	**2.2**	**2 J**	< 0.5	< 0.5	**0.03**	**7.6**	**0.98**	**2.8**	**52.62**
TOTAL-EFF	09/11/2024	< 0.5	**0.42 J**	**30**	**0.33 J**	**1.6**	**1.5 J**	< 0.5	< 0.5	**0.04**	**6.4**	**0.81**	**4**	**45.1**
TOTAL-EFF	10/03/2024	< 0.5	**0.48 J**	**33**	**0.4 J**	**1.9**	**1.2**	**0.49 J**	< 0.5	**0.041**	**7.1**	**0.67**	**2.8**	**48.081**
TOTAL-EFF	11/05/2024	< 0.5	**0.48 J**	**29**	**0.34 J**	**1.8**	**1**	< 0.5	< 0.5	**0.028**	**6.3**	**0.68**	**2.6**	**42.228**
TOTAL-EFF	12/09/2024	< 0.5	**0.54**	**24**	**0.34 J**	**1.7**	**0.96**	< 0.5	< 0.5	**0.043**	**5**	**0.57**	**3.2**	**36.353**

Notes:

1. Results are reported in micrograms per liter (µg/L).
2. Samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Method 8260B and 1,4-dioxane using EPA Method 8270C-isotope dilution.
3. Detected concentrations are shown in **BOLD** font.
4. Additional VOCs that are not COCs have been detected. Analytical results for non-COCs are included in the Appendix of Laboratory Analytical Reports.
5. Samples collected during this reporting period are shaded in gray.

Abbreviations:

< = not detected at or above the laboratory reporting limit shown.
µg/L = micrograms per liter
J = The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
+ = Biased high
- = Biased low
< # J = the associated analyte is considered not detected at or greater than the estimated concentration listed.
ND = Not Detected in any COC
LINF = water influent to the groundwater treatment system
LGACI = inlet to the primary liquid phase granular activated carbon (GAC) vessel following outlet of HiPOX Treatment Unit
DPE-INF = influent to the GAC vessel from the dual phase extraction wells.
EW-INF = groundwater pumped from groundwater extraction wells.
HIPOXD = inlet to HiPOX Treatment Unit when temporarily located downstream of GAC vessels
LGACM = inlet to the secondary liquid phase granular activated carbon vessel
LGACE = treated water effluent
TOTAL-EFF = combination of EW-INF and LGACE that is discharged to the sewer

1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane
PCE = Tetrachloroethene
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
tDCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
COCs = Chemicals of Concern

TABLE 3

GROUNDWATER TREATMENT SYSTEM OPERATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

System Inspection Date	Flow Totalizer (gallons)	Influent Concentration (Total COCs; µg/L)	Incremental Mass Removal (pounds)	Total Mass of COCs Removed (pounds)
3/4/2011	0	--		0
3/15/2011	1,375	10,626	0.12	0.1
3/29/2011	1,775	19,400	0.05	0.2
4/12/2011	3,975	8,770	0.26	0.4
5/17/2011	7,275	5,450	0.20	0.6
6/7/2011	8,775	8,960	0.09	0.7
7/19/2011	12,175	5,840	0.21	0.9
8/23/2011	16,175	4,237	0.17	1.1
10/11/2011	20,075	1,198	0.09	1.2
03/15/2012	30,994	55	0.06	1.2
4/25/2012	36,030	181	0.00	1.2
5/22/2012	71,341	196	0.06	1.3
6/22/2012	120,667	140	0.07	1.4
7/5/2012	148,485	208	0.04	1.4
7/23/2012	216,494	55	0.07	1.5
8/7/2012	243,504	161	0.02	1.5
8/17/2012	250,371	69	0.01	1.5
8/24/2012	276,954	73	0.02	1.5
9/7/2012	418,656	96	0.10	1.6
9/14/2012	452,233	84	0.03	1.7
10/16/2012	611,707	71	0.10	1.8
11/20/2012	740,370	109	0.10	1.9
12/14/2012	811,655	56	0.05	1.9
1/16/2013	1,016,607	65	0.10	2.0
2/28/2013	1,290,225	80	0.16	2.2
4/5/2013	2,017,356	71	0.46	2.6
4/23/2013	2,243,948	86	0.15	2.8
5/21/2013	2,475,955	86	0.17	2.9
6/25/2013	3,393,601	82	0.64	3.6
7/30/2013	3,988,635	79	0.40	4.0
8/29/2013	4,688,389	72	0.44	4.4
9/24/2013	5,572,076	62	0.49	4.9
10/29/2013	6,420,241	62	0.44	5.4
11/25/2013	7,101,908	73	0.38	5.7
12/16/2013	7,481,683	72	0.23	6.0
1/27/2014	8,582,951	70	0.65	6.6
2/24/2014	8,944,366	67	0.21	6.8

TABLE 3
GROUNDWATER TREATMENT SYSTEM OPERATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

System Inspection Date	Flow Totalizer (gallons)	Influent Concentration (Total COCs; µg/L)	Incremental Mass Removal (pounds)	Total Mass of COCs Removed (pounds)
3/24/2014	9,759,449	67	0.45	7.3
4/29/2014	10,653,962	59	0.47	7.7
5/29/2014	11,588,139	58	0.46	8.2
6/26/2014	12,224,153	56	0.30	8.5
7/31/2014	12,497,046	62	0.13	8.6
8/27/2014	12,927,483	67	0.23	8.9
9/22/2014	13,451,784	68	0.30	9.2
10/23/2014	14,051,000	69	0.34	9.5
11/24/2014	14,616,789	72	0.33	9.8
12/10/2014	14,889,891	61	0.15	10.0
1/20/2015	15,737,681	65	0.45	10.4
2/17/2015	16,241,552	65	0.27	10.7
3/26/2015	16,780,233	63	0.29	11.0
5/28/2015	17,547,750	68	0.42	11.4
6/16/2015	17,828,036	74	0.17	11.6
7/7/2015	18,300,222	85	0.31	11.9
8/26/2015	19,334,338	82	0.72	12.6
9/16/2015	19,741,474	41	0.21	12.8
10/14/2015	19,798,462	60	0.02	12.8
11/18/2015	20,246,266	66	0.24	13.1
12/9/2015	20,701,101	52	0.22	13.3
1/13/2016	21,120,790	55	0.19	13.5
2/17/2016	21,887,116	55	0.35	13.8
3/23/2016	22,511,434	58	0.30	14.1
4/20/2016	23,037,308	59	0.26	14.4
5/18/2016	23,565,845	68	0.28	14.7
6/8/2016	24,006,342	69	0.25	14.9
7/20/2016	24,909,268	65	0.51	15.4
8/17/2016	25,590,396	81	0.42	15.9
9/28/2016	26,514,206	73	0.59	16.4
10/12/2016	26,866,701	73	0.22	16.7
11/16/2016	27,694,404	81	0.53	17.2
12/14/2016	28,183,864	70	0.31	17.5
1/25/2017	28,916,757	69	0.42	17.9
2/22/2017	29,287,594	77	0.22	18.2
3/15/2017	29,538,469	78	0.16	18.3
4/12/2017	29,983,434	77	0.29	18.6

TABLE 3
GROUNDWATER TREATMENT SYSTEM OPERATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

System Inspection Date	Flow Totalizer (gallons)	Influent Concentration (Total COCs; µg/L)	Incremental Mass Removal (pounds)	Total Mass of COCs Removed (pounds)
5/17/2017	30,641,564	66	0.39	19.0
6/21/2017	31,313,414	76	0.40	19.4
7/26/2017	31,845,894	78	0.34	19.7
8/16/2017	32,111,164	80	0.17	19.9
9/22/2017	32,589,134	124	0.41	20.3
10/11/2017	32,887,644	80	0.25	20.6
11/29/2017	33,734,174	74	0.54	21.1
12/13/2017	33,943,214	92	0.14	21.3
1/31/2018	34,696,749	71	0.51	21.8
2/28/2018	35,113,039	60	0.23	22.0
3/28/2018	35,485,559	74	0.21	22.2
4/30/2018	35,918,619	60	0.24	22.4
5/16/2018	36,255,869	51	0.16	22.6
6/20/2018	36,760,619	70	0.25	22.9
7/18/2018	37,230,869	63	0.26	23.1
8/15/2018	37,716,039	68	0.26	23.4
9/19/2018	38,277,424	68	0.32	23.7
10/24/2018	38,850,179	58	0.30	24.0
11/14/2018	39,172,624	52	0.15	24.1
12/5/2018	39,475,324	56	0.14	24.3
1/9/2019	39,984,584	63	0.25	24.5
2/20/2019	40,601,024	49	0.29	24.8
3/20/2019	40,937,032	40	0.12	24.9
4/24/2019	41,315,539	51	0.14	25.1
5/29/2019	41,619,468	46	0.12	25.2
5/31/2019	41,852,309	46	0.09	25.3
6/12/2019	42,026,939	57	0.07	25.4
6/26/2019	42,220,459	57	0.09	25.5
6/30/2019	42,276,595	57	0.03	25.5
7/31/2019	42,697,940	62	0.21	25.7
8/31/2019	43,060,123	54	0.18	25.9
9/30/2019	43,360,424	65	0.15	26.0
10/31/2019	43,721,738	47	0.17	26.2
11/30/2019	44,106,319	45	0.15	26.3
12/31/2019	44,536,914	28	0.13	26.5
1/31/2010	44,920,187	34	0.10	26.6
2/29/2020	45,363,096	35	0.13	26.7

TABLE 3
GROUNDWATER TREATMENT SYSTEM OPERATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

System Inspection Date	Flow Totalizer (gallons)	Influent Concentration (Total COCs; µg/L)	Incremental Mass Removal (pounds)	Total Mass of COCs Removed (pounds)
3/31/2020	45,810,666	27	0.12	26.8
4/30/2020	46,167,467	38	0.10	26.9
5/6/2020	46,424,093	44	0.09	27.0
6/10/2020	46,728,838	48	0.12	27.1
7/8/2020	47,106,040	49	0.15	27.3
8/5/2020	47,527,092	42	0.16	27.4
9/9/2020	47,949,386	63	0.19	27.6
10/7/2020	48,405,637	49	0.21	27.8
11/6/2020	48,820,090	50	0.17	28.0
12/2/2020	49,253,907	35	0.15	28.2
1/13/2021	49,751,751	33	0.14	28.3
2/17/2021	50,112,836	37	0.11	28.4
3/10/2021	50,523,244	41	0.13	28.5
4/14/2021	50,973,546	39	0.15	28.7
5/12/2021	51,487,240	40	0.17	28.9
6/9/2021	51,928,688	39	0.15	29.0
7/7/2021	52,372,132	34	0.14	29.1
8/4/2021	52,776,165	45	0.13	29.3
9/8/2021	53,299,419	36	0.18	29.4
10/6/2021	53,752,358	44	0.15	29.6
11/3/2021	54,181,575	43	0.16	29.7
12/13/2021	54,754,831	43	0.21	30.0
1/12/2022	55,216,492	47	0.17	30.1
2/9/2022	55,683,490	58	0.20	30.3
3/9/2022	56,254,385	47	0.25	30.6
4/6/2022	56,716,099	40	0.17	30.8
5/11/2022	57,171,555	38	0.15	30.9
6/1/2022	57,671,933[2]	37	0.16	31.1
7/6/2022	58,024,973[2]	31	0.10	31.2
8/3/2022	58,534,511	39	0.15	31.3
9/7/2022	58,960,560	47	0.15	31.5
10/5/2022	59,397,677	7	0.10	31.6
11/2/2022	59,954,357	36	0.10	31.7
12/7/2022	60,387,597	46	0.15	31.8
1/4/2023	60,830,060	44	0.17	32.0
2/1/2023	61,260,797	38	0.15	32.1
3/8/2023	61,925,762	48	0.24	32.4

TABLE 3

GROUNDWATER TREATMENT SYSTEM OPERATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

System Inspection Date	Flow Totalizer (gallons)	Influent Concentration (Total COCs; µg/L)	Incremental Mass Removal (pounds)	Total Mass of COCs Removed (pounds)
4/13/2023	62,429,872	49	0.20	32.6
5/3/2023	63,204,487	54	0.33	32.9
6/7/2023	63,833,697	23	0.20	33.1
7/5/2023	64,468,627	40	0.17	33.3
8/2/223	64,920,147	44	0.16	33.4
9/5/2023	65,112,617	46	0.07	33.5
10/5/2023	65,619,877	71	0.25	33.8
11/1/2023	66,276,928	21	0.25	34.0
12/6/2023	66,687,227	56	0.13	34.1
1/3/2024	67,170,887	40	0.19	34.3
2/7/2024	67,555,737	56	0.15	34.5
3/6/2024	67,982,417	44	0.18	34.7
4/3/2024	68,467,713	49	0.19	34.9
5/8/2024	69,004,127	54	0.23	35.1
6/12/2024	69,326,437	46	0.13	35.2
7/3/2024	69,918,764	56	0.25	35.5
8/6/2024	70,433,043	63	0.25	35.7
9/11/2024	70,862,203	58	0.22	35.9
10/3/2024	71,399,679	60	0.27	36.2
11/5/2024	71,780,350	44	0.16	36.4
12/9/2024	72,254,071	42	0.17	36.5

Notes:

1. Influent concentration is the sum of COC concentrations detected and reported by Environmental Protection Agency (EPA) Method 8260B and the 1,4-dioxane concentration detected and reported by EPA Method 8270C-isotope dilution for water samples collected from the influent to the groundwater treatment system.
2. Influent totalizer non functioning during portion of operating period, individual data used during those periods.
3. Data collected during this reporting period are shaded in gray.

Abbreviations:

-- = not sampled
µg/L = micrograms per liter
COCs = compounds of concern

TABLE 4

EXTRACTION WELL AND MONITORING WELL CONSTRUCTION AND SAMPLING FREQUENCY - OPERABLE UNIT 1
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Installation Date	Well Type	Aquifer	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Top of Casing Elevation (NAVD 88)	Monitoring Frequency[1]
EW-2	12/06/00	Extraction Well	Shallow Gaspur	84	6	39 - 79	103.72	Not Sampled[2]
EW-4	07/01/11	Extraction Well	Shallow/ Intermediate Gaspur	83	4	68 - 83	103.37	Semi-Annual
EW-5	10/24/12	Extraction Well	Shallow Gaspur	77	4	62 - 76	104.50	Semi-Annual
EW-7A	10/31/12	Extraction Well	Shallow/ Intermediate Gaspur	84	4	69 - 84	104.15	Semi-Annual
EW-7B	10/24/12	Extraction Well	Lower Gaspur	106	4	91 - 105	104.23	Semi-Annual
EW-8[3]	10/25/12	Monitoring Well	Lower Gaspur	109	4	99 - 109	104.42	Semi-Annual
EW-A[4]	03/26/15	Extraction Well	Intermediate/Lower Gaspur	112	4	82 - 110.3	104.18	Semi-Annual
PTW-2	07/26/19	Extraction Well	Shallow Gaspur	75.7	4	58.7 - 65.2 68.7 - 75.3	106.60	ACB Pilot Test[5]/ Semi-Annual
MW-1	08/09/90	Monitoring Well	Shallow/ Intermediate Gaspur	83	4	52 - 84	104.88	Annual[8]
MW-2A	09/15/10	Monitoring Well	Shallow Gaspur	63	2	58 - 62	106.52	Semi-Annual
MW-2B	09/15/10	Monitoring Well	Shallow Gaspur	73	2	68 - 72	106.24	Semi-Annual
MW-2C	09/14/10	Monitoring Well	Intermediate Gaspur	92	2	88 - 92	106.27	Semi-Annual
MW-4	09/09/91	Monitoring Well	Shallow / Intermediate Gaspur	82	4	50 - 82	104.93	Semi-Annual
MW-4B	09/13/10	Monitoring Well	Intermediate Gaspur	93	2	88 - 92	105.06	Semi-Annual
MW-15[7]	11/30/00	Monitoring Well	Shallow/ Intermediate Gaspur	87	4	70 - 85	104.56	Semi-Annual
MW-15B	04/13/09	Monitoring Well	Lower Gaspur	105	2	93 - 103	104.71	Semi-Annual
MW-16	11/28/00	Monitoring Well	Exposition	135	2	118 - 128	104.67	Abandoned
MW-16R	12/07/22	Monitoring Well	Exposition	138	2	127-137	104.44	Semi-Annual
MW-17	11/30/00	Monitoring Well	Shallow Gaspur	80	4	69 - 79	105.32	Semi-Annual
MW-18	11/29/00	Monitoring Well	Exposition	135	2	118 - 128	105.21	Abandoned
MW-18R	12/13/22	Monitoring Well	Exposition	133	2	122-132	105.02	Semi-Annual
MW-19	12/05/00	Monitoring Well	Shallow Gaspur	80	4	67 - 77	106.03	Semi-Annual
MW-20	02/28/03	Monitoring Well	Shallow Gaspur	75	4	55 - 70	104.84	Semi-Annual
MW-20B	07/05/08	Monitoring Well	Intermediate Gaspur	90	2	80 - 90	104.46	Semi-Annual
MW-21	10/22/03	Monitoring Well	Shallow Gaspur	75	4	55 - 75	105.62	Semi-Annual
MW-22	12/04/03	Monitoring Well	Shallow Gaspur	75	4	63 - 73	105.32	Semi-Annual
MW-23A	07/08/11	Monitoring Well	Shallow Gaspur	66	2	61 - 65	105.51	Semi-Annual
MW-23	12/05/03	Monitoring Well	Shallow Gaspur	81	4	69 - 79	106.09	Semi-Annual[6]

TABLE 4

EXTRACTION WELL AND MONITORING WELL CONSTRUCTION AND SAMPLING FREQUENCY - OPERABLE UNIT 1

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Well ID	Installation Date	Well Type	Aquifer	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Top of Casing Elevation (NAVD 88)	Monitoring Frequency[1]
MW-23B	04/14/09	Monitoring Well	Lower Gaspur	108	2	95 - 105	106.06	Sem-Annual[6]
MW-24	12/01/03	Monitoring Well	Shallow Gaspur	87	4	70-85	103.96	Semi-Annual[6]
MW-25	12/03/03	Monitoring Well	Intermediate Gaspur	92	4	75-90	103.74	Semi-Annual
MW-25B	02/28/08	Monitoring Well	Lower Gaspur	109	4	95-105	103.54	Semi-Annual
MW-26	12/10/03	Monitoring Well	Exposition	134	2	122-132	103.86	Semi-Annual
MW-27	12/03/03	Monitoring Well	Intermediate Gaspur	92	4	75-90	103.60	Annual[8]
MW-28	12/11/03	Monitoring Well	Lower Gaspur	115	2	104-114	103.53	Semi-Annual
MW-29A	02/26/08	Monitoring Well	Shallow Gaspur	67	4	56-66	102.95	Annual
MW-29	12/02/03	Monitoring Well	Intermediate Gaspur	92	4	75-90	102.95	Semi-Annual[6]
MW-30	12/09/03	Monitoring Well	Lower Gaspur	115	2	104-114	103.09	Annual[9]
MW-31A	02/26/08	Monitoring Well	Shallow Gaspur	65.5	4	54.5-64.5	103.07	Annual[9]
MW-31	12/02/03	Monitoring Well	Intermediate Gaspur	92	4	75-90	103.30	Annual[9]
MW-31B	02/25/08	Monitoring Well	Lower Gaspur	109	4	97-107	103.15	Annual[9]
MW-32	12/08/03	Monitoring Well	Exposition	134	2	122-132	103.27	Semi-Annual
MW-33A	07/06/05	Monitoring Well	Shallow Gaspur	65	2	55 - 65	104.96	Semi-Annual
MW-33B	07/06/05	Monitoring Well	Intermediate Gaspur	90	2	80 - 90	104.72	Semi-Annual[6]
MW-34	02/28/08	Monitoring Well	Shallow Gaspur	69	4	58-68	103.24	Not Sampled[10]
MW-35	02/27/08	Monitoring Well	Lower Gaspur	106	4	95-105	103.25	Not Sampled[10]
MW-36	03/04/08	Monitoring Well	Intermediate Gaspur	89	4	77-87	102.73	Annual[8]
MW-37	03/05/08	Monitoring Well	Lower Gaspur	111	4	99.5-109.5	102.50	Semi-Annual
MW-38	03/03/08	Monitoring Well	Shallow Gaspur	68	4	56.5-66.5	102.28	Annual[9]
MW-39	02/29/08	Monitoring Well	Intermediate Gaspur	89	4	78-88	102.34	Annual[9]
MW-40	03/03/08	Monitoring Well	Lower Gaspur	111	4	100-110	102.06	Annual[9]
MW-41[11]	03/06/08	Monitoring Well	Lower Gaspur	100	4	89-99	104.34	Semi-Annual
MW-42	04/15/09	Monitoring Well	Shallow Gaspur	67	2	56-66	104.36	Not Sampled[10]
MW-43	04/15/09	Monitoring Well	Intermediate Gaspur	88	2	77-87	104.25	Not Sampled[10]
MW-44	04/15/09	Monitoring Well	Lower Gaspur	108	2	96-106	104.17	Not Sampled[10]
MW-45	04/14/09	Monitoring Well	Intermediate Gaspur	90	2	79-89	102.47	Not Sampled[10]
MW-46	04/20/09	Monitoring Well	Shallow Gaspur	68	2	57-67	101.87	Not Sampled[10]

TABLE 4

EXTRACTION WELL AND MONITORING WELL CONSTRUCTION AND SAMPLING FREQUENCY - OPERABLE UNIT 1
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Installation Date	Well Type	Aquifer	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Top of Casing Elevation (NAVD 88)	Monitoring Frequency[1]
MW-47	04/20/09	Monitoring Well	Intermediate Gaspur	88	2	77-87	101.74	Not Sampled[10]
MW-48	04/20/09	Monitoring Well	Lower Gaspur	110	2	98-108	101.68	Not Sampled[10]
MW-49	04/23/09	Monitoring Well	Shallow Gaspur	71	2	60-70	100.53	Not Sampled[10]
MW-50	04/23/09	Monitoring Well	Intermediate Gaspur	89	2	78-88	100.65	Annual
MW-51	04/23/09	Monitoring Well	Lower Gaspur	110	2	98-108	100.64	Annual
MW-52	04/22/09	Monitoring Well	Shallow Gaspur	77	2	66-76	100.77	Not Sampled[10]
MW-53	04/22/09	Monitoring Well	Lower Gaspur	101	2	90-100	100.73	Annual
MW-54	04/22/09	Monitoring Well	Lower Gaspur	115	2	108-113	100.88	Annual
MW-55	04/16/09	Monitoring Well	Exposition	140	2	128-138	102.57	Abandoned
MW-55R	11/18/22	Monitoring Well	Exposition	161	2	150-160	102.74	Semi-Annual
MW-56	04/17/09	Monitoring Well	Shallow Gaspur	74	2	62-72	101.73	Not Sampled[10]
MW-57A	09/14/11	Monitoring Well	Shallow Gaspur	71	2	60 - 70	105.93	Semi-Annual
MW-57B	09/14/11	Monitoring Well	Intermediate Gaspur	91	2	85 - 90	105.84	Semi-Annual[6]
MW-58	09/13/11	Monitoring Well	Shallow Gaspur	71	2	60 - 70	106.01	Semi-Annual
MW-59A	09/17/10	Monitoring Well	Shallow Gaspur	63	2	58 - 62	105.72	Semi-Annual
MW-59B	09/17/10	Monitoring Well	Intermediate Gaspur	80	2	75 - 79	105.61	Semi-Annual[6]
MW-59C	09/16/10	Monitoring Well	Intermediate Gaspur	93	2	88 - 92	105.76	Semi-Annual
MW-60A	06/30/11	Monitoring Well	Shallow Gaspur	77	2	72 - 77	105.69	Semi-Annual
MW-60B	06/30/11	Monitoring Well	Lower Gaspur	102	2	92 - 101	105.64	Semi-Annual
MW-61A	07/06/11	Monitoring Well	Shallow Gaspur	76	2	66 - 76	104.84	Semi-Annual
MW-61B	07/06/11	Monitoring Well	Intermediate Gaspur	88	2	83 - 88	104.84	Semi-Annual
MW-62A	07/07/11	Monitoring Well	Shallow Gaspur	77	2	68 - 77	105.22	Semi-Annual
MW-62B	09/14/11	Monitoring Well	Lower Gaspur	107	2	101 - 106	105.22	Semi-Annual
MW-63	03/21/18	Monitoring Well	Shallow Gaspur	71	2	65.5 - 70.1	108.86	Semi-Annual
MW-64A	03/19/18	Monitoring Well	Intermediate Gaspur	87	2	81.5 - 86.1	108.36	Semi-Annual
MW-64B	03/19/18	Monitoring Well	Lower Gaspur	115	2	109.8 - 114.5	108.33	Semi-Annual[6]
PZ-7A	07/27/11	Monitoring Well	Shallow Gaspur	76	2	70 - 75	105.67	Semi-Annual
PZ-7B	07/27/11	Monitoring Well	Intermediate Gaspur	94	2	88 - 93	105.66	Semi-Annual
JWMW-01	02/01/98	Monitoring Well	Shallow Gaspur	--	4	40-70	108.04	Jervis B. Webb Well

TABLE 4

EXTRACTION WELL AND MONITORING WELL CONSTRUCTION AND SAMPLING FREQUENCY - OPERABLE UNIT 1
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Installation Date	Well Type	Aquifer	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Top of Casing Elevation (NAVD 88)	Monitoring Frequency[1]
JWMW-02	02/02/98	Monitoring Well	Shallow Gaspur	--	4	40-70	108.60	Jervis B. Webb Well
JWMW-03	02/03/98	Monitoring Well	Shallow Gaspur	--	4	40-70	107.82	Jervis B. Webb Well
JWMW-04	11/01/98	Monitoring Well	Shallow Gaspur	--	4	40-70	106.67	Jervis B. Webb Well
JWMW-05	11/02/98	Monitoring Well	Shallow Gaspur	--	4	40-70	108.08	Jervis B. Webb Well
JWMW-06A	10/01/16	Monitoring Well	Shallow Gaspur	--	2	60-70	112.30	Jervis B. Webb Well
JWMW-06B	10/02/16	Monitoring Well	Intermediate Gaspur	--	2	79-84	112.19	Jervis B. Webb Well
JWMW-06C	10/03/16	Monitoring Well	Lower Gaspur	--	2	93-98	112.21	Jervis B. Webb Well
JWMW-07A	10/04/16	Monitoring Well	Shallow Gaspur	--	2	60-70	111.60	Jervis B. Webb Well
JWMW-07B	10/05/16	Monitoring Well	Intermediate Gaspur	--	2	79-84	111.58	Jervis B. Webb Well
JWMW-07C	10/06/16	Monitoring Well	Lower Gaspur	--	2	96-106	111.59	Jervis B. Webb Well
JWMW-08A	10/07/16	Monitoring Well	Shallow Gaspur	--	2	58-68	105.13	Jervis B. Webb Well
JWMW-08B	10/08/16	Monitoring Well	Intermediate Gaspur	--	2	79-84	105.12	Jervis B. Webb Well
JWMW-08C	10/09/16	Monitoring Well	Lower Gaspur	--	2	112-122	105.15	Jervis B. Webb Well
JWMW-09A	10/10/16	Monitoring Well	Shallow Gaspur	--	2	63-68	106.69	Jervis B. Webb Well
JWMW-09B	10/11/16	Monitoring Well	Intermediate Gaspur	--	2	83-88	106.79	Jervis B. Webb Well
JWMW-09C	10/12/16	Monitoring Well	Lower Gaspur	--	2	95-100	106.42	Jervis B. Webb Well
JWMW-10	10/13/16	Monitoring Well	Exposition	--	2	130-135	106.50	Jervis B. Webb Well
JWMW-11A	10/14/16	Monitoring Well	Shallow Gaspur	--	2	59-69	105.35	Jervis B. Webb Well
JWMW-11B	10/15/16	Monitoring Well	Intermediate Gaspur	--	2	80-90	105.54	Jervis B. Webb Well
JWMW-11C	10/16/16	Monitoring Well	Exposition	--	2	118-128	105.44	Jervis B. Webb Well
JWMW-12	10/17/16	Monitoring Well	Exposition	--	2	138-143	105.46	Jervis B. Webb Well
JWMW-13A	04/01/17	Monitoring Well	Shallow Gaspur	--	2	60-70	103.92	Jervis B. Webb Well
JWMW-13B	04/01/17	Monitoring Well	Lower Gaspur	--	2	90-100	104.02	Jervis B. Webb Well
JWMW-13C	04/01/17	Monitoring Well	Lower Gaspur	--	2	118-128	104.05	Jervis B. Webb Well
SAIA-MW1A	--	Monitoring Well	Shallow Gaspur	--	2	60-65	104.92	SAIA Well
SAIA-MW1B	--	Monitoring Well	Intermediate Gaspur	--	2	75-85	104.76	SAIA Well
SAIA-MW1C	--	Monitoring Well	Lower Gaspur	--	2	94-104	104.71	SAIA Well
SAIA-MW2A	--	Monitoring Well	Shallow Gaspur	--	2	60-65	104.76	SAIA Well
SAIA-MW2B	--	Monitoring Well	Intermediate Gaspur	--	2	76-86	104.75	SAIA Well

TABLE 4

EXTRACTION WELL AND MONITORING WELL CONSTRUCTION AND SAMPLING FREQUENCY - OPERABLE UNIT 1
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Installation Date	Well Type	Aquifer	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Top of Casing Elevation (NAVD 88)	Monitoring Frequency[1]
SAIA-MW2C	--	Monitoring Well	Lower Gaspur	--	2	96-106	104.76	SAIA Well
SAIA-MW3A	--	Monitoring Well	Shallow Gaspur	--	2	58-68	102.12	SAIA Well
SAIA-MW3B	--	Monitoring Well	Intermediate Gaspur	--	2	76-86	102.10	SAIA Well
SAIA-MW3C	--	Monitoring Well	Lower Gaspur	--	2	96-106	102.12	SAIA Well
SAIA-MW4A	--	Monitoring Well	Shallow Gaspur	--	2	58-68	100.89	SAIA Well
SAIA-MW4B	--	Monitoring Well	Intermediate Gaspur	--	2	74-84	101.04	SAIA Well
SAIA-MW4C	--	Monitoring Well	Lower Gaspur	--	2	92-102	100.86	SAIA Well
SAIA-MW7	--	Monitoring Well	Exposition	--	2	122-132	104.64	SAIA Well

Notes:

1. All monitoring wells are gauged on a semi-annual basis and sampled in accordance with the Second Semi-Annual 2015 Groundwater Monitoring Report and Groundwater Monitoring Plan Update, 29 February 2016.
2. Well EW-2 operation ceased as planned during implementation of the Aerobic Cometabolic Biodegradation (ACB) Pilot Test; it was replaced by PTW-2 as part of the groundwater extraction well network.
3. Modification to the extraction well network replaced well EW-8 with well EW-A. Well EW-8 has been retained for use as a monitoring well.
4. Well EW-A is angled at approximately 45 degrees from vertical. The downhole length of the screen interval is 116 to 156 feet below top of casing. The vertical depth of the screen interval is 82 to 110.3 ft bgs.
5. PTW-2 was originally installed as part of the ACB Pilot Test. See note #2 above.
6. Monitoring frequency at these wells was previously listed as annual. COC concentrations increased above cleanup levels and the monitoring frequency was changed to semi-annual.
7. Intended usage of MW-15 changed from an extraction well to a monitoring well.
8. Previously monitored on a semi-annual basis. COC concentrations decreased below cleanup levels and the monitoring frequency was changed to annual.
9. Previously monitored on a semi-annual basis during the monitored natural attenuation assessment period. Returns to an annual basis following completion of the monitored natural attenuation period.
10. Monitoring wells not sampled due to non-Cooper Drum groundwater impacts.
11. MW-41 was previously referred to as Intermediate Gaspur.

Abbreviations:

ft bgs = feet below ground surface
NAVD 88 = feet above the North American Vertical Datum of 1988
-- = Not measured/ Not available

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-1	Shallow/Intermediate Gaspur	11/4/1998	104.88	40.20	64.68
MW-1	Shallow/Intermediate Gaspur	4/7/1999	104.88	40.52	64.36
MW-1	Shallow/Intermediate Gaspur	8/5/1999	104.88	40.64	64.24
MW-1	Shallow/Intermediate Gaspur	10/10/2000	104.88	42.81	62.07
MW-1	Shallow/Intermediate Gaspur	12/14/2000	104.88	42.97	61.91
MW-1	Shallow/Intermediate Gaspur	2/8/2001	104.88	42.47	62.41
MW-1	Shallow/Intermediate Gaspur	5/1/2003	104.88	44.74	60.14
MW-1	Shallow/Intermediate Gaspur	12/18/2003	104.88	45.58	59.30
MW-1	Shallow/Intermediate Gaspur	4/16/2004	104.88	NM	NM
MW-1	Shallow/Intermediate Gaspur	8/27/2004	104.88	NM	NM
MW-1	Shallow/Intermediate Gaspur	12/22/2004	104.88	46.65	58.23
MW-1	Shallow/Intermediate Gaspur	4/20/2005	104.88	46.04	58.84
MW-1	Shallow/Intermediate Gaspur	6/6/2006	104.88	44.12	60.76
MW-1	Shallow/Intermediate Gaspur	8/28/2006	104.88	44.23	60.65
MW-1	Shallow/Intermediate Gaspur	3/19/2008	104.88	45.12	59.76
MW-1	Shallow/Intermediate Gaspur	4/14/2008	104.88	45.10	59.78
MW-1	Shallow/Intermediate Gaspur	5/19/2009	104.88	46.82	58.06
MW-1	Shallow/Intermediate Gaspur	7/15/2010	104.88	48.89	55.99
MW-1	Shallow/Intermediate Gaspur	6/13/2011	104.88	49.25	55.63
MW-1	Shallow/Intermediate Gaspur	12/5/2011	104.88	49.05	55.83
MW-1	Shallow/Intermediate Gaspur	6/7/2012	104.88	49.16	55.72
MW-1	Shallow/Intermediate Gaspur	6/8/2012	104.88	49.16	55.72
MW-1	Shallow/Intermediate Gaspur	12/10/2012	104.88	44.54	60.34
MW-1	Shallow/Intermediate Gaspur	6/17/2013	104.88	46.09	58.79
MW-1	Shallow/Intermediate Gaspur	12/9/2013	104.88	51.24	53.64
MW-1	Shallow/Intermediate Gaspur	6/12/2014	104.88	52.00	52.88
MW-1	Shallow/Intermediate Gaspur	12/15/2014	104.88	53.40	51.48
MW-1	Shallow/Intermediate Gaspur	6/8/2015	104.88	54.00	50.88
MW-1	Shallow/Intermediate Gaspur	12/7/2015	104.88	55.59	49.29
MW-1	Shallow/Intermediate Gaspur	6/6/2016	104.88	56.36	48.52
MW-1	Shallow/Intermediate Gaspur	11/28/2016	104.88	57.62	47.26
MW-1	Shallow/Intermediate Gaspur	6/5/2017	104.88	58.70	46.18
MW-1	Shallow/Intermediate Gaspur	12/4/2017	104.88	59.10	45.78
MW-1	Shallow/Intermediate Gaspur	6/4/2018	104.88	60.13	44.75
MW-1	Shallow/Intermediate Gaspur	6/28/2018	104.88	60.11	44.77
MW-1	Shallow/Intermediate Gaspur	12/3/2018	104.88	60.81	44.07
MW-1	Shallow/Intermediate Gaspur	6/10/2019	104.88	61.64	43.24
MW-1	Shallow/Intermediate Gaspur	12/2/2019	104.88	62.42	42.46
MW-1	Shallow/Intermediate Gaspur	6/8/2020	104.88	62.88	42.00
MW-1	Shallow/Intermediate Gaspur	11/17/2020	104.88	63.32	41.56
MW-1	Shallow/Intermediate Gaspur	5/17/2021	104.88	63.80	41.08
MW-1	Shallow/Intermediate Gaspur	11/15/2021	104.88	63.96	40.92

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-1	Shallow/Intermediate Gaspur	6/21/2022	104.88	64.55	40.33
MW-1	Shallow/Intermediate Gaspur	12/22/2022	104.88	65.02	39.86
MW-1	Shallow/Intermediate Gaspur	5/15/2023	104.88	65.01	39.87
MW-1	Shallow/Intermediate Gaspur	11/27/2023	104.88	63.70	41.18
MW-1	Shallow/Intermediate Gaspur	5/3/2024	104.88	63.60	41.28
MW-1	Shallow/Intermediate Gaspur	11/18/2024	104.88	62.11	42.77
MW-2A	Shallow Gaspur	6/13/2011	106.52	54.12	52.40
MW-2A	Shallow Gaspur	9/26/2011	106.52	54.70	51.82
MW-2A	Shallow Gaspur	12/5/2011	106.52	53.54	52.98
MW-2A	Shallow Gaspur	3/26/2012	106.52	53.11	53.41
MW-2A	Shallow Gaspur	6/7/2012	106.52	53.20	53.32
MW-2A	Shallow Gaspur	6/13/2012	106.52	53.20	53.32
MW-2A	Shallow Gaspur	12/10/2012	106.52	53.80	52.72
MW-2A	Shallow Gaspur	6/17/2013	106.52	55.92	50.60
MW-2A	Shallow Gaspur	12/9/2013	106.52	56.21	50.31
MW-2A	Shallow Gaspur	6/12/2014	106.52	56.65	49.87
MW-2A	Shallow Gaspur	12/15/2014	106.52	58.28	48.24
MW-2A	Shallow Gaspur	6/8/2015	106.52	58.40	48.12
MW-2A	Shallow Gaspur	12/7/2015	106.52	60.10	46.42
MW-2A	Shallow Gaspur	6/6/2016	106.52	60.77	45.75
MW-2A	Shallow Gaspur	11/28/2016	106.52	61.90	44.62
MW-2A	Shallow Gaspur	6/5/2017	106.52	Dry	Dry
MW-2A	Shallow Gaspur	12/4/2017	106.52	Dry	Dry
MW-2A	Shallow Gaspur	6/4/2018	106.52	Dry	Dry
MW-2A	Shallow Gaspur	6/28/2018	106.52	Dry	Dry
MW-2A	Shallow Gaspur	12/3/2018	106.52	Dry	Dry
MW-2A	Shallow Gaspur	6/10/2019	106.52	Dry	Dry
MW-2A	Shallow Gaspur	12/2/2019	106.52	Dry	Dry
MW-2A	Shallow Gaspur	6/8/2020	106.52	Dry	Dry
MW-2A	Shallow Gaspur	11/17/2020	106.52	Dry	Dry
MW-2A	Shallow Gaspur	5/17/2021	106.52	Dry	Dry
MW-2A	Shallow Gaspur	11/15/2021	106.52	Dry	Dry
MW-2A	Shallow Gaspur	6/21/2022	106.52	Dry	Dry
MW-2A	Shallow Gaspur	12/22/2022	106.52	Dry	Dry
MW-2A	Shallow Gaspur	5/15/2023	106.52	Dry	Dry
MW-2A	Shallow Gaspur	11/27/2023	106.52	Dry	Dry
MW-2A	Shallow Gaspur	5/3/2024	106.52	Dry	Dry
MW-2A	Shallow Gaspur	11/18/2024	106.52	Dry	Dry
MW-2B	Shallow Gaspur	6/13/2011	106.24	53.81	52.43
MW-2B	Shallow Gaspur	9/26/2011	106.24	54.50	51.74
MW-2B	Shallow Gaspur	12/5/2011	106.24	53.56	52.68
MW-2B	Shallow Gaspur	3/26/2012	106.24	53.27	52.97

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-2B	Shallow Gaspur	6/7/2012	106.24	53.00	53.24
MW-2B	Shallow Gaspur	6/13/2012	106.24	53.00	53.24
MW-2B	Shallow Gaspur	12/10/2012	106.24	53.81	52.43
MW-2B	Shallow Gaspur	6/17/2013	106.24	55.94	50.30
MW-2B	Shallow Gaspur	12/9/2013	106.24	57.70	48.54
MW-2B	Shallow Gaspur	6/12/2014	106.24	56.41	49.83
MW-2B	Shallow Gaspur	12/15/2014	106.24	58.32	47.92
MW-2B	Shallow Gaspur	6/8/2015	106.24	58.22	48.02
MW-2B	Shallow Gaspur	12/7/2015	106.24	59.98	46.26
MW-2B	Shallow Gaspur	6/6/2016	106.24	60.64	45.60
MW-2B	Shallow Gaspur	11/28/2016	106.24	61.85	44.39
MW-2B	Shallow Gaspur	6/5/2017	106.24	62.40	43.84
MW-2B	Shallow Gaspur	12/4/2017	106.24	63.00	43.24
MW-2B	Shallow Gaspur	6/4/2018	106.24	63.75	42.49
MW-2B	Shallow Gaspur	6/28/2018	106.24	63.80	42.44
MW-2B	Shallow Gaspur	12/3/2018	106.24	64.30	41.94
MW-2B	Shallow Gaspur	6/10/2019	106.24	64.77	41.47
MW-2B	Shallow Gaspur	12/2/2019	106.24	65.32	40.92
MW-2B	Shallow Gaspur	6/8/2020	106.24	65.69	40.55
MW-2B	Shallow Gaspur	11/17/2020	106.24	66.07	40.17
MW-2B	Shallow Gaspur	5/17/2021	106.24	66.50	39.74
MW-2B	Shallow Gaspur	11/15/2021	106.24	66.65	39.59
MW-2B	Shallow Gaspur	6/21/2022	106.24	67.11	39.13
MW-2B	Shallow Gaspur	12/22/2022	106.24	67.40	38.84
MW-2B	Shallow Gaspur	5/15/2023	106.24	67.57	38.67
MW-2B	Shallow Gaspur	11/27/2023	106.24	67.41	38.83
MW-2B	Shallow Gaspur	5/3/2024	106.24	66.29	39.95
MW-2B	Shallow Gaspur	11/18/2024	106.24	65.06	41.18
MW-2C	Intermediate Gaspur	6/13/2011	106.27	53.92	52.35
MW-2C	Intermediate Gaspur	9/26/2011	106.27	53.41	52.86
MW-2C	Intermediate Gaspur	12/5/2011	106.27	53.44	52.83
MW-2C	Intermediate Gaspur	3/26/2012	106.27	52.97	53.30
MW-2C	Intermediate Gaspur	6/7/2012	106.27	53.05	53.22
MW-2C	Intermediate Gaspur	6/13/2012	106.27	53.05	53.22
MW-2C	Intermediate Gaspur	12/10/2012	106.27	53.60	52.67
MW-2C	Intermediate Gaspur	6/17/2013	106.27	56.00	50.27
MW-2C	Intermediate Gaspur	12/9/2013	106.27	57.38	48.89
MW-2C	Intermediate Gaspur	6/12/2014	106.27	56.82	49.45
MW-2C	Intermediate Gaspur	12/15/2014	106.27	57.94	48.33
MW-2C	Intermediate Gaspur	6/8/2015	106.27	58.20	48.07
MW-2C	Intermediate Gaspur	12/7/2015	106.27	59.88	46.39
MW-2C	Intermediate Gaspur	6/6/2016	106.27	60.53	45.74

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-2C	Intermediate Gaspur	11/28/2016	106.27	61.93	44.34
MW-2C	Intermediate Gaspur	6/5/2017	106.27	62.65	43.62
MW-2C	Intermediate Gaspur	12/4/2017	106.27	63.21	43.06
MW-2C	Intermediate Gaspur	6/4/2018	106.27	63.70	42.57
MW-2C	Intermediate Gaspur	6/28/2018	106.27	64.19	42.08
MW-2C	Intermediate Gaspur	12/3/2018	106.27	64.30	41.97
MW-2C	Intermediate Gaspur	6/10/2019	106.27	64.60	41.67
MW-2C	Intermediate Gaspur	12/2/2019	106.27	66.30	39.97
MW-2C	Intermediate Gaspur	6/8/2020	106.27	65.55	40.72
MW-2C	Intermediate Gaspur	11/17/2020	106.27	66.23	40.04
MW-2C	Intermediate Gaspur	5/17/2021	106.27	66.37	39.90
MW-2C	Intermediate Gaspur	11/15/2021	106.27	66.75	39.52
MW-2C	Intermediate Gaspur	6/21/2022	106.27	66.97	39.30
MW-2C	Intermediate Gaspur	12/22/2022	106.27	67.55	38.72
MW-2C	Intermediate Gaspur	5/15/2023	106.27	67.43	38.84
MW-2C	Intermediate Gaspur	11/27/2023	106.27	67.33	38.94
MW-2C	Intermediate Gaspur	5/3/2024	106.27	66.11	40.16
MW-2C	Intermediate Gaspur	11/18/2024	106.27	64.88	41.39
MW-4	Shallow/Intermediate Gaspur	11/4/1998	104.93	42.06	62.87
MW-4	Shallow/Intermediate Gaspur	4/7/1999	104.93	42.60	62.33
MW-4	Shallow/Intermediate Gaspur	8/5/1999	104.93	42.88	62.05
MW-4	Shallow/Intermediate Gaspur	10/10/2000	104.93	45.40	59.53
MW-4	Shallow/Intermediate Gaspur	12/14/2000	104.93	45.32	59.61
MW-4	Shallow/Intermediate Gaspur	2/8/2001	104.93	44.70	60.23
MW-4	Shallow/Intermediate Gaspur	5/1/2003	104.93	47.38	57.55
MW-4	Shallow/Intermediate Gaspur	12/18/2003	104.93	48.17	56.76
MW-4	Shallow/Intermediate Gaspur	4/16/2004	104.93	48.45	56.48
MW-4	Shallow/Intermediate Gaspur	8/27/2004	104.93	48.97	55.96
MW-4	Shallow/Intermediate Gaspur	12/22/2004	104.93	49.44	55.49
MW-4	Shallow/Intermediate Gaspur	4/20/2005	104.93	48.88	56.05
MW-4	Shallow/Intermediate Gaspur	6/6/2006	104.93	NM	NM
MW-4	Shallow/Intermediate Gaspur	8/28/2006	104.93	47.08	57.85
MW-4	Shallow/Intermediate Gaspur	3/19/2008	104.93	47.62	57.31
MW-4	Shallow/Intermediate Gaspur	4/14/2008	104.93	47.72	57.21
MW-4	Shallow/Intermediate Gaspur	5/19/2009	104.93	49.56	55.37
MW-4	Shallow/Intermediate Gaspur	7/15/2010	104.93	51.61	53.32
MW-4	Shallow/Intermediate Gaspur	6/13/2011	104.93	52.29	52.64
MW-4	Shallow/Intermediate Gaspur	12/5/2011	104.93	51.89	53.04
MW-4	Shallow/Intermediate Gaspur	6/7/2012	104.93	51.31	53.62
MW-4	Shallow/Intermediate Gaspur	6/7/2012	104.93	51.31	53.62
MW-4	Shallow/Intermediate Gaspur	12/10/2012	104.93	51.91	53.02
MW-4	Shallow/Intermediate Gaspur	6/17/2013	104.93	53.83	51.10

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-4	Shallow/Intermediate Gaspur	12/9/2013	104.93	54.75	50.18
MW-4	Shallow/Intermediate Gaspur	6/12/2014	104.93	55.18	49.75
MW-4	Shallow/Intermediate Gaspur	12/15/2014	104.93	56.64	48.29
MW-4	Shallow/Intermediate Gaspur	6/8/2015	104.93	56.62	48.31
MW-4	Shallow/Intermediate Gaspur	12/7/2015	104.93	58.92	46.01
MW-4	Shallow/Intermediate Gaspur	6/6/2016	104.93	59.58	45.35
MW-4	Shallow/Intermediate Gaspur	11/28/2016	104.93	60.76	44.17
MW-4	Shallow/Intermediate Gaspur	6/5/2017	104.93	61.72	43.21
MW-4	Shallow/Intermediate Gaspur	12/4/2017	104.93	62.02	42.91
MW-4	Shallow/Intermediate Gaspur	6/4/2018	104.93	63.17	41.76
MW-4	Shallow/Intermediate Gaspur	6/28/2018	104.93	62.81	42.12
MW-4	Shallow/Intermediate Gaspur	12/3/2018	104.93	63.19	41.74
MW-4	Shallow/Intermediate Gaspur	6/10/2019	104.93	63.75	41.18
MW-4	Shallow/Intermediate Gaspur	12/2/2019	104.93	64.25	40.68
MW-4	Shallow/Intermediate Gaspur	6/8/2020	104.93	64.68	40.25
MW-4	Shallow/Intermediate Gaspur	11/17/2020	104.93	65.00	39.93
MW-4	Shallow/Intermediate Gaspur	5/17/2021	104.93	65.33	39.60
MW-4	Shallow/Intermediate Gaspur	11/15/2021	104.93	65.62	39.31
MW-4	Shallow/Intermediate Gaspur	6/21/2022	104.93	66.07	38.86
MW-4	Shallow/Intermediate Gaspur	12/22/2022	104.93	66.44	38.49
MW-4	Shallow/Intermediate Gaspur	5/15/2023	104.93	66.44	38.49
MW-4	Shallow/Intermediate Gaspur	11/27/2023	104.93	66.30	38.63
MW-4	Shallow/Intermediate Gaspur	5/3/2024	104.93	65.09	39.84
MW-4	Shallow/Intermediate Gaspur	11/18/2024	104.93	63.81	41.12
MW-4B	Intermediate Gaspur	6/13/2011	105.06	52.88	52.18
MW-4B	Intermediate Gaspur	9/26/2011	105.06	53.41	51.65
MW-4B	Intermediate Gaspur	12/5/2011	105.06	52.46	52.60
MW-4B	Intermediate Gaspur	3/26/2012	105.06	52.10	52.96
MW-4B	Intermediate Gaspur	6/7/2012	105.06	51.91	53.15
MW-4B	Intermediate Gaspur	6/7/2012	105.06	51.91	53.15
MW-4B	Intermediate Gaspur	12/10/2012	105.06	52.54	52.52
MW-4B	Intermediate Gaspur	6/17/2013	105.06	54.23	50.83
MW-4B	Intermediate Gaspur	12/9/2013	105.06	54.79	50.27
MW-4B	Intermediate Gaspur	6/12/2014	105.06	55.43	49.63
MW-4B	Intermediate Gaspur	12/15/2014	105.06	56.77	48.29
MW-4B	Intermediate Gaspur	6/8/2015	105.06	57.22	47.84
MW-4B	Intermediate Gaspur	12/7/2015	105.06	59.00	46.06
MW-4B	Intermediate Gaspur	6/6/2016	105.06	59.64	45.42
MW-4B	Intermediate Gaspur	11/28/2016	105.06	60.79	44.27
MW-4B	Intermediate Gaspur	6/5/2017	105.06	62.40	42.66
MW-4B	Intermediate Gaspur	12/4/2017	105.06	62.72	42.34
MW-4B	Intermediate Gaspur	6/4/2018	105.06	62.65	42.41

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-4B	Intermediate Gaspur	6/28/2018	105.06	62.72	42.34
MW-4B	Intermediate Gaspur	12/3/2018	105.06	63.29	41.77
MW-4B	Intermediate Gaspur	6/10/2019	105.06	63.70	41.36
MW-4B	Intermediate Gaspur	12/2/2019	105.06	64.37	40.69
MW-4B	Intermediate Gaspur	6/8/2020	105.06	64.71	40.35
MW-4B	Intermediate Gaspur	11/17/2020	105.06	65.02	40.04
MW-4B	Intermediate Gaspur	5/17/2021	105.06	65.34	39.72
MW-4B	Intermediate Gaspur	11/15/2021	105.06	65.68	39.38
MW-4B	Intermediate Gaspur	6/21/2022	105.06	66.05	39.01
MW-4B	Intermediate Gaspur	12/22/2022	105.06	66.38	38.68
MW-4B	Intermediate Gaspur	5/15/2023	105.06	66.35	38.71
MW-4B	Intermediate Gaspur	11/27/2023	105.06	66.20	38.86
MW-4B	Intermediate Gaspur	5/3/2024	105.06	65.05	40.01
MW-4B	Intermediate Gaspur	11/18/2024	105.06	63.69	41.37
MW-15	Intermediate Gaspur	12/14/2000	104.82	45.60	59.22
MW-15	Intermediate Gaspur	2/8/2001	104.82	45.03	59.79
MW-15	Intermediate Gaspur	5/1/2003	104.82	47.66	57.16
MW-15	Intermediate Gaspur	12/18/2003	104.82	48.41	56.41
MW-15	Intermediate Gaspur	4/16/2004	104.82	48.69	56.13
MW-15	Intermediate Gaspur	8/27/2004	104.82	49.24	55.58
MW-15	Intermediate Gaspur	12/22/2004	104.82	49.79	55.03
MW-15	Intermediate Gaspur	4/20/2005	104.82	49.11	55.71
MW-15	Intermediate Gaspur	6/6/2006	104.82	47.34	57.48
MW-15	Intermediate Gaspur	8/28/2006	104.82	47.30	57.52
MW-15	Intermediate Gaspur	2/28/2007	104.82	47.06	57.76
MW-15	Intermediate Gaspur	3/19/2008	104.82	48.08	56.74
MW-15	Intermediate Gaspur	4/14/2008	104.82	48.03	56.79
MW-15	Intermediate Gaspur	5/4/2009	104.82	49.90	54.92
MW-15	Intermediate Gaspur	5/19/2009	104.82	49.92	54.90
MW-15	Intermediate Gaspur	7/15/2010	104.82	52.38	52.44
MW-15	Intermediate Gaspur	6/17/2013	104.82	54.14	50.68
MW-15	Intermediate Gaspur	12/9/2013	104.82	54.65	50.17
MW-15	Intermediate Gaspur	3/27/2014	104.82	54.60	50.22
MW-15	Intermediate Gaspur	6/11/2014	104.82	55.51	49.31
MW-15	Intermediate Gaspur	12/15/2014	104.82	56.63	48.19
MW-15	Intermediate Gaspur	6/8/2015	104.82	57.25	47.57
MW-15	Intermediate Gaspur	12/7/2015	104.82	58.91	45.91
MW-15	Intermediate Gaspur	6/6/2016	104.56	59.76	44.80
MW-15	Intermediate Gaspur	11/28/2016	104.56	60.94	43.62
MW-15	Intermediate Gaspur	6/5/2017	104.56	61.55	43.01
MW-15	Intermediate Gaspur	12/5/2017	104.56	62.30	42.26
MW-15	Intermediate Gaspur	6/4/2018	104.56	62.28	42.28

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-15	Intermediate Gaspur	6/28/2018	104.56	62.92	41.64
MW-15	Intermediate Gaspur	12/3/2018	104.56	63.40	41.16
MW-15	Intermediate Gaspur	6/10/2019	104.56	63.81	40.75
MW-15	Intermediate Gaspur	12/2/2019	104.56	64.41	40.15
MW-15	Intermediate Gaspur	6/8/2020	104.56	64.84	39.72
MW-15	Intermediate Gaspur	11/17/2020	104.56	65.13	39.43
MW-15	Intermediate Gaspur	5/17/2021	104.56	65.40	39.16
MW-15	Intermediate Gaspur	11/15/2021	104.56	65.70	38.86
MW-15	Intermediate Gaspur	6/21/2022	104.56	66.24	38.32
MW-15	Intermediate Gaspur	12/22/2022	104.56	66.44	38.12
MW-15	Intermediate Gaspur	5/15/2023	104.56	66.44	38.12
MW-15	Intermediate Gaspur	11/27/2023	104.56	66.33	38.23
MW-15	Intermediate Gaspur	5/3/2024	104.56	65.17	39.39
MW-15	Intermediate Gaspur	11/18/2024	104.56	63.78	40.78
MW-15B	Lower Gaspur	5/4/2009	104.62	49.81	54.81
MW-15B	Lower Gaspur	5/19/2009	104.62	49.83	54.79
MW-15B	Lower Gaspur	7/15/2010	104.62	52.21	52.41
MW-15B	Lower Gaspur	6/13/2011	104.62	52.71	51.91
MW-15B	Lower Gaspur	12/5/2011	104.62	52.46	52.16
MW-15B	Lower Gaspur	6/7/2012	104.62	51.78	52.84
MW-15B	Lower Gaspur	6/8/2012	104.62	51.78	52.84
MW-15B	Lower Gaspur	12/10/2012	104.62	52.40	52.22
MW-15B	Lower Gaspur	6/17/2013	104.62	53.91	50.71
MW-15B	Lower Gaspur	12/9/2013	104.62	54.49	50.13
MW-15B	Lower Gaspur	3/27/2014	104.62	54.52	50.10
MW-15B	Lower Gaspur	6/11/2014	104.62	55.38	49.24
MW-15B	Lower Gaspur	12/15/2014	104.62	56.50	48.12
MW-15B	Lower Gaspur	6/8/2015	104.62	57.13	47.49
MW-15B	Lower Gaspur	12/7/2015	104.62	59.07	45.55
MW-15B	Lower Gaspur	6/6/2016	104.71	59.59	45.12
MW-15B	Lower Gaspur	11/28/2016	104.71	60.78	43.93
MW-15B	Lower Gaspur	6/5/2017	104.71	61.42	43.29
MW-15B	Lower Gaspur	12/5/2017	104.71	62.02	42.69
MW-15B	Lower Gaspur	6/4/2018	104.71	62.70	42.01
MW-15B	Lower Gaspur	6/28/2018	104.71	62.63	42.08
MW-15B	Lower Gaspur	12/3/2018	104.71	63.32	41.39
MW-15B	Lower Gaspur	6/10/2019	104.71	63.63	41.08
MW-15B	Lower Gaspur	12/2/2019	104.71	64.21	40.50
MW-15B	Lower Gaspur	6/8/2020	104.71	64.73	39.98
MW-15B	Lower Gaspur	11/17/2020	104.71	64.96	39.75
MW-15B	Lower Gaspur	5/17/2021	104.71	65.23	39.48
MW-15B	Lower Gaspur	11/15/2021	104.71	65.68	39.03

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-15B	Lower Gaspur	6/21/2022	104.71	65.98	38.73
MW-15B	Lower Gaspur	12/22/2022	104.71	66.31	38.40
MW-15B	Lower Gaspur	5/15/2023	104.71	66.25	38.46
MW-15B	Lower Gaspur	11/27/2023	104.71	66.14	38.57
MW-15B	Lower Gaspur	5/3/2024	104.71	64.96	39.75
MW-15B	Lower Gaspur	11/18/2024	104.71	63.60	41.11
MW-16	Exposition	12/14/2000	105.01	48.49	56.52
MW-16	Exposition	2/8/2001	105.01	47.90	57.11
MW-16	Exposition	5/1/2003	105.01	50.95	54.06
MW-16	Exposition	12/18/2003	105.01	51.76	53.25
MW-16	Exposition	4/16/2004	105.01	52.13	52.88
MW-16	Exposition	8/27/2004	105.01	52.80	52.21
MW-16	Exposition	12/22/2004	105.01	53.33	51.68
MW-16	Exposition	4/20/2005	105.01	52.84	52.17
MW-16	Exposition	6/6/2006	105.01	50.81	54.20
MW-16	Exposition	8/28/2006	105.01	50.82	54.19
MW-16	Exposition	2/28/2007	105.01	50.33	54.68
MW-16	Exposition	3/19/2008	105.01	51.49	53.52
MW-16	Exposition	4/14/2008	105.01	51.52	53.49
MW-16	Exposition	5/19/2009	105.01	53.80	51.21
MW-16	Exposition	7/15/2010	105.01	56.41	48.60
MW-16	Exposition	6/13/2011	105.01	56.77	48.24
MW-16	Exposition	12/5/2011	105.01	56.21	48.80
MW-16	Exposition	6/7/2012	105.01	55.31	49.70
MW-16	Exposition	6/7/2012	105.01	55.31	49.70
MW-16	Exposition	12/10/2012	105.01	55.92	49.09
MW-16	Exposition	6/17/2013	105.01	57.21	47.80
MW-16	Exposition	12/9/2013	105.01	58.00	47.01
MW-16	Exposition	6/9/2014	105.01	59.17	45.84
MW-16	Exposition	12/15/2014	105.01	59.96	45.05
MW-16	Exposition	6/8/2015	105.01	61.80	43.21
MW-16	Exposition	12/7/2015	105.01	59.73	45.28
MW-16	Exposition	6/6/2016	104.67	64.23	40.44
MW-16	Exposition	11/28/2016	104.67	65.38	39.29
MW-16	Exposition	6/5/2017	104.67	66.10	38.57
MW-16	Exposition	12/5/2017	104.67	66.52	38.15
MW-16	Exposition	6/4/2018	104.67	67.74	36.93
MW-16	Exposition	6/28/2018	104.67	67.07	37.60
MW-16	Exposition	12/3/2018	104.67	67.92	36.75
MW-16	Exposition	6/10/2019	104.67	68.16	36.51
MW-16	Exposition	12/2/2019	104.67	68.81	35.86
MW-16	Exposition	6/8/2020	104.67	68.92	35.75

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-16	Exposition	11/17/2020	104.67	69.31	35.36
MW-16	Exposition	5/17/2021	104.67	69.47	35.20
MW-16	Exposition	11/15/2021	104.67	69.93	34.74
MW-16	Exposition	6/21/2022	104.67	70.21	34.46
MW-16R	Exposition	12/22/2022	104.44	72.29	32.15
MW-16R	Exposition	2/24/2023	104.44	72.08	32.36
MW-16R	Exposition	5/15/2023	104.44	71.88	32.56
MW-16R	Exposition	9/8/2023	104.44	71.37	33.07
MW-16R	Exposition	11/27/2023	104.44	70.55	33.89
MW-16R	Exposition	5/3/2024	104.44	68.39	36.05
MW-16R	Exposition	11/18/2024	104.44	65.50	38.94
MW-17	Shallow Gaspur	12/14/2000	105.41	45.74	59.67
MW-17	Shallow Gaspur	2/8/2001	105.41	45.19	60.22
MW-17	Shallow Gaspur	5/1/2003	105.41	47.89	57.52
MW-17	Shallow Gaspur	12/18/2003	105.41	48.61	56.80
MW-17	Shallow Gaspur	4/16/2004	105.41	48.85	56.56
MW-17	Shallow Gaspur	8/27/2004	105.41	49.46	55.95
MW-17	Shallow Gaspur	12/22/2004	105.41	50.02	55.39
MW-17	Shallow Gaspur	4/20/2005	105.41	49.40	56.01
MW-17	Shallow Gaspur	6/6/2006	105.41	47.61	57.80
MW-17	Shallow Gaspur	8/28/2006	105.41	47.60	57.81
MW-17	Shallow Gaspur	2/28/2007	105.41	47.26	58.15
MW-17	Shallow Gaspur	3/19/2008	105.41	48.31	57.10
MW-17	Shallow Gaspur	4/14/2008	105.41	48.26	57.15
MW-17	Shallow Gaspur	5/19/2009	105.41	50.15	55.26
MW-17	Shallow Gaspur	7/15/2010	105.41	52.52	52.89
MW-17	Shallow Gaspur	6/13/2011	105.41	53.17	52.24
MW-17	Shallow Gaspur	12/5/2011	105.41	52.96	52.45
MW-17	Shallow Gaspur	6/7/2012	105.41	52.22	53.19
MW-17	Shallow Gaspur	6/7/2012	105.41	52.22	53.19
MW-17	Shallow Gaspur	12/10/2012	105.41	52.85	52.56
MW-17	Shallow Gaspur	6/17/2013	105.41	54.84	50.57
MW-17	Shallow Gaspur	12/9/2013	105.41	55.09	50.32
MW-17	Shallow Gaspur	6/11/2014	105.41	55.94	49.47
MW-17	Shallow Gaspur	12/15/2014	105.41	57.00	48.41
MW-17	Shallow Gaspur	6/8/2015	105.41	57.50	47.91
MW-17	Shallow Gaspur	12/7/2015	105.41	59.93	45.48
MW-17	Shallow Gaspur	6/6/2016	105.32	59.87	45.45
MW-17	Shallow Gaspur	11/28/2016	105.32	61.01	44.31
MW-17	Shallow Gaspur	6/5/2017	105.32	61.67	43.65
MW-17	Shallow Gaspur	12/5/2017	105.32	61.20	44.12
MW-17	Shallow Gaspur	6/4/2018	105.32	63.73	41.59

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-17	Shallow Gaspur	6/28/2018	105.32	62.99	42.33
MW-17	Shallow Gaspur	12/3/2018	105.32	63.56	41.76
MW-17	Shallow Gaspur	6/10/2019	105.32	64.16	41.16
MW-17	Shallow Gaspur	12/2/2019	105.32	64.62	40.70
MW-17	Shallow Gaspur	6/8/2020	105.32	65.03	40.29
MW-17	Shallow Gaspur	11/17/2020	105.32	65.34	39.98
MW-17	Shallow Gaspur	5/17/2021	105.32	65.66	39.66
MW-17	Shallow Gaspur	11/15/2021	105.32	65.84	39.48
MW-17	Shallow Gaspur	6/21/2022	105.32	66.32	39.00
MW-17	Shallow Gaspur	12/22/2022	105.32	66.71	38.61
MW-17	Shallow Gaspur	5/15/2023	105.32	66.78	38.54
MW-17	Shallow Gaspur	11/27/2023	105.32	66.64	38.68
MW-17	Shallow Gaspur	5/3/2024	105.32	65.51	39.81
MW-17	Shallow Gaspur	11/18/2024	105.32	64.33	40.99
MW-18	Exposition	12/14/2000	105.47	50.36	55.11
MW-18	Exposition	2/8/2001	105.47	49.79	55.68
MW-18	Exposition	5/1/2003	105.47	52.97	52.50
MW-18	Exposition	12/18/2003	105.47	53.83	51.64
MW-18	Exposition	4/16/2004	105.47	54.24	51.23
MW-18	Exposition	8/27/2004	105.47	55.00	50.47
MW-18	Exposition	12/22/2004	105.47	55.56	49.91
MW-18	Exposition	4/20/2005	105.47	55.23	50.24
MW-18	Exposition	6/6/2006	105.47	NM	NM
MW-18	Exposition	8/28/2006	105.47	52.86	52.61
MW-18	Exposition	2/28/2007	105.47	52.28	53.19
MW-18	Exposition	3/19/2008	105.47	53.53	51.94
MW-18	Exposition	4/14/2008	105.47	53.63	51.84
MW-18	Exposition	5/19/2009	105.47	56.01	49.46
MW-18	Exposition	7/15/2010	105.47	58.66	46.81
MW-18	Exposition	6/13/2011	105.47	59.02	46.45
MW-18	Exposition	12/5/2011	105.47	58.31	47.16
MW-18	Exposition	6/7/2012	105.47	57.38	48.09
MW-18	Exposition	6/7/2012	105.47	57.38	48.09
MW-18	Exposition	12/10/2012	105.47	57.89	47.58
MW-18	Exposition	6/17/2013	105.47	59.00	46.47
MW-18	Exposition	12/9/2013	105.47	60.22	45.25
MW-18	Exposition	6/9/2014	105.47	61.43	44.04
MW-18	Exposition	12/15/2014	105.47	63.19	42.28
MW-18	Exposition	6/8/2015	105.47	63.53	41.94
MW-18	Exposition	12/7/2015	105.47	60.02	45.45
MW-18	Exposition	6/6/2016	105.21	66.90	38.31
MW-18	Exposition	11/28/2016	105.21	68.16	37.05

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-18	Exposition	6/5/2017	105.21	68.61	36.60
MW-18	Exposition	12/5/2017	105.21	69.16	36.05
MW-18	Exposition	6/4/2018	105.21	69.19	36.02
MW-18	Exposition	6/28/2018	105.21	69.66	35.55
MW-18	Exposition	12/3/2018	105.21	70.42	34.79
MW-18	Exposition	6/10/2019	105.21	70.74	34.47
MW-18	Exposition	12/2/2019	105.21	71.40	33.81
MW-18	Exposition	6/8/2020	105.21	71.50	33.71
MW-18	Exposition	11/17/2020	105.21	71.90	33.31
MW-18	Exposition	5/17/2021	105.21	71.94	33.27
MW-18	Exposition	11/15/2021	105.21	72.60	32.61
MW-18	Exposition	6/21/2022	105.21	72.76	32.45
MW-18R	Exposition	12/22/2022	105.02	73.01	32.01
MW-18R	Exposition	2/24/2023	105.02	72.88	32.14
MW-18R	Exposition	5/15/2023	105.02	72.59	32.43
MW-18R	Exposition	9/8/2023	105.02	72.03	32.99
MW-18R	Exposition	11/27/2023	105.02	71.18	33.84
MW-18R	Exposition	5/3/2024	105.02	69.68	35.34
MW-18R	Exposition	11/18/2024	105.02	66.06	38.96
MW-19	Shallow Gaspur	12/14/2000	106.10	45.91	60.19
MW-19	Shallow Gaspur	2/8/2001	106.10	45.39	60.71
MW-19	Shallow Gaspur	5/1/2003	106.10	48.10	58.00
MW-19	Shallow Gaspur	12/18/2003	106.10	48.86	57.24
MW-19	Shallow Gaspur	4/16/2004	106.10	49.10	57.00
MW-19	Shallow Gaspur	8/27/2004	106.10	49.70	56.40
MW-19	Shallow Gaspur	12/22/2004	106.10	50.25	55.85
MW-19	Shallow Gaspur	4/20/2005	106.10	49.73	56.37
MW-19	Shallow Gaspur	6/6/2006	106.10	48.03	58.07
MW-19	Shallow Gaspur	8/28/2006	106.10	47.94	58.16
MW-19	Shallow Gaspur	2/28/2007	106.10	47.66	58.44
MW-19	Shallow Gaspur	3/19/2008	106.10	48.69	57.41
MW-19	Shallow Gaspur	4/14/2008	106.10	48.64	57.46
MW-19	Shallow Gaspur	5/19/2009	106.10	50.49	55.61
MW-19	Shallow Gaspur	7/15/2010	106.10	52.88	53.22
MW-19	Shallow Gaspur	6/13/2011	106.10	53.52	52.58
MW-19	Shallow Gaspur	12/5/2011	106.10	53.31	52.79
MW-19	Shallow Gaspur	6/7/2012	106.10	52.64	53.46
MW-19	Shallow Gaspur	6/7/2012	106.10	52.64	53.46
MW-19	Shallow Gaspur	12/10/2012	106.10	53.19	52.91
MW-19	Shallow Gaspur	6/17/2013	106.10	54.73	51.37
MW-19	Shallow Gaspur	12/9/2013	106.10	55.06	51.04
MW-19	Shallow Gaspur	6/11/2014	106.10	55.87	50.23

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-19	Shallow Gaspur	12/15/2014	106.10	57.17	48.93
MW-19	Shallow Gaspur	6/8/2015	106.10	57.80	48.30
MW-19	Shallow Gaspur	12/7/2015	106.10	59.20	46.90
MW-19	Shallow Gaspur	6/6/2016	106.03	60.05	45.98
MW-19	Shallow Gaspur	11/28/2016	106.03	61.21	44.82
MW-19	Shallow Gaspur	6/5/2017	106.03	61.94	44.09
MW-19	Shallow Gaspur	12/4/2017	106.03	62.40	43.63
MW-19	Shallow Gaspur	6/4/2018	106.03	62.12	43.91
MW-19	Shallow Gaspur	6/28/2018	106.03	63.21	42.82
MW-19	Shallow Gaspur	12/3/2018	106.03	63.83	42.20
MW-19	Shallow Gaspur	6/10/2019	106.03	64.35	41.68
MW-19	Shallow Gaspur	12/2/2019	106.03	64.97	41.06
MW-19	Shallow Gaspur	6/8/2020	106.03	65.24	40.79
MW-19	Shallow Gaspur	11/17/2020	106.03	65.52	40.51
MW-19	Shallow Gaspur	5/17/2021	106.03	65.95	40.08
MW-19	Shallow Gaspur	11/15/2021	106.03	66.12	39.91
MW-19	Shallow Gaspur	6/21/2022	106.03	66.45	39.58
MW-19	Shallow Gaspur	12/22/2022	106.03	66.82	39.21
MW-19	Shallow Gaspur	5/15/2023	106.03	67.03	39.00
MW-19	Shallow Gaspur	11/27/2023	106.03	67.00	39.03
MW-19	Shallow Gaspur	5/6/2024	106.03	65.91	40.12
MW-19	Shallow Gaspur	11/18/2024	106.03	65.02	41.01
MW-20	Shallow Gaspur	5/1/2003	104.84	47.47	57.37
MW-20	Shallow Gaspur	12/18/2003	104.84	48.20	56.64
MW-20	Shallow Gaspur	4/16/2004	104.84	48.51	56.33
MW-20	Shallow Gaspur	8/27/2004	104.84	49.09	55.75
MW-20	Shallow Gaspur	12/22/2004	104.84	49.64	55.20
MW-20	Shallow Gaspur	4/20/2005	104.84	48.96	55.88
MW-20	Shallow Gaspur	6/6/2006	104.84	46.95	57.89
MW-20	Shallow Gaspur	8/28/2006	104.84	47.20	57.64
MW-20	Shallow Gaspur	2/28/2007	104.84	46.92	57.92
MW-20	Shallow Gaspur	3/19/2008	104.84	48.03	56.81
MW-20	Shallow Gaspur	4/14/2008	104.84	47.89	56.95
MW-20	Shallow Gaspur	5/19/2009	104.84	49.80	55.04
MW-20	Shallow Gaspur	7/15/2010	104.84	52.06	52.78
MW-20	Shallow Gaspur	6/13/2011	104.84	52.71	52.13
MW-20	Shallow Gaspur	12/5/2011	104.84	52.38	52.46
MW-20	Shallow Gaspur	6/7/2012	104.84	51.83	53.01
MW-20	Shallow Gaspur	6/13/2012	104.84	51.83	53.01
MW-20	Shallow Gaspur	12/10/2012	104.84	52.45	52.39
MW-20	Shallow Gaspur	6/17/2013	104.84	54.44	50.40
MW-20	Shallow Gaspur	12/9/2013	104.84	54.88	49.96

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-20	Shallow Gaspur	6/10/2014	104.84	55.70	49.14
MW-20	Shallow Gaspur	12/15/2014	104.84	56.83	48.01
MW-20	Shallow Gaspur	6/8/2015	104.84	57.15	47.69
MW-20	Shallow Gaspur	12/7/2015	104.84	58.90	45.94
MW-20	Shallow Gaspur	6/6/2016	104.84	59.93	44.91
MW-20	Shallow Gaspur	11/28/2016	104.84	60.61	44.23
MW-20	Shallow Gaspur	6/5/2017	104.84	60.88	43.96
MW-20	Shallow Gaspur	12/4/2017	104.84	61.97	42.87
MW-20	Shallow Gaspur	6/4/2018	104.84	62.52	42.32
MW-20	Shallow Gaspur	6/28/2018	104.84	62.50	42.34
MW-20	Shallow Gaspur	12/3/2018	104.84	63.08	41.76
MW-20	Shallow Gaspur	6/10/2019	104.84	63.50	41.34
MW-20	Shallow Gaspur	12/2/2019	104.84	64.10	40.74
MW-20	Shallow Gaspur	6/8/2020	104.84	64.60	40.24
MW-20	Shallow Gaspur	11/17/2020	104.84	64.85	39.99
MW-20	Shallow Gaspur	5/17/2021	104.84	65.36	39.48
MW-20	Shallow Gaspur	11/16/2021	104.84	65.70	39.14
MW-20	Shallow Gaspur	6/21/2022	104.84	65.97	38.87
MW-20	Shallow Gaspur	12/22/2022	104.84	65.68	39.16
MW-20	Shallow Gaspur	5/15/2023	104.84	66.38	38.46
MW-20	Shallow Gaspur	11/27/2023	104.84	66.18	38.66
MW-20	Shallow Gaspur	5/3/2024	104.84	65.00	39.84
MW-20	Shallow Gaspur	11/18/2024	104.84	63.53	41.31
MW-20B	Intermediate Gaspur	6/6/2006	104.46	46.82	57.64
MW-20B	Intermediate Gaspur	8/28/2006	104.46	46.80	57.66
MW-20B	Intermediate Gaspur	3/19/2008	104.46	48.13	56.33
MW-20B	Intermediate Gaspur	4/14/2008	104.46	47.51	56.95
MW-20B	Intermediate Gaspur	5/19/2009	104.46	49.41	55.05
MW-20B	Intermediate Gaspur	7/15/2010	104.46	51.73	52.73
MW-20B	Intermediate Gaspur	6/13/2011	104.46	52.30	52.16
MW-20B	Intermediate Gaspur	12/5/2011	104.46	52.02	52.44
MW-20B	Intermediate Gaspur	6/7/2012	104.46	51.39	53.07
MW-20B	Intermediate Gaspur	6/12/2012	104.46	51.39	53.07
MW-20B	Intermediate Gaspur	12/10/2012	104.46	52.00	52.46
MW-20B	Intermediate Gaspur	6/17/2013	104.46	54.24	50.22
MW-20B	Intermediate Gaspur	12/9/2013	104.46	54.43	50.03
MW-20B	Intermediate Gaspur	6/10/2014	104.46	55.38	49.08
MW-20B	Intermediate Gaspur	12/15/2014	104.46	56.40	48.06
MW-20B	Intermediate Gaspur	6/8/2015	104.46	57.25	47.21
MW-20B	Intermediate Gaspur	12/7/2015	104.46	58.41	46.05
MW-20B	Intermediate Gaspur	6/6/2016	104.46	59.08	45.38
MW-20B	Intermediate Gaspur	11/28/2016	104.46	60.27	44.19

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-20B	Intermediate Gaspur	6/5/2017	104.46	60.93	43.53
MW-20B	Intermediate Gaspur	12/4/2017	104.46	62.02	42.44
MW-20B	Intermediate Gaspur	6/4/2018	104.46	61.89	42.57
MW-20B	Intermediate Gaspur	6/28/2018	104.46	62.30	42.16
MW-20B	Intermediate Gaspur	12/3/2018	104.46	62.69	41.77
MW-20B	Intermediate Gaspur	6/10/2019	104.46	63.23	41.23
MW-20B	Intermediate Gaspur	12/2/2019	104.46	63.88	40.58
MW-20B	Intermediate Gaspur	6/8/2020	104.46	64.23	40.23
MW-20B	Intermediate Gaspur	11/17/2020	104.46	64.58	39.88
MW-20B	Intermediate Gaspur	5/17/2021	104.46	65.04	39.42
MW-20B	Intermediate Gaspur	11/15/2021	104.46	65.24	39.22
MW-20B	Intermediate Gaspur	6/21/2022	104.46	65.57	38.89
MW-20B	Intermediate Gaspur	12/22/2022	104.46	66.05	38.41
MW-20B	Intermediate Gaspur	5/15/2023	104.46	65.97	38.49
MW-20B	Intermediate Gaspur	11/27/2023	104.46	65.85	38.61
MW-20B	Intermediate Gaspur	5/3/2024	104.46	64.67	39.79
MW-20B	Intermediate Gaspur	11/18/2024	104.46	63.42	41.04
MW-21	Shallow Gaspur	12/18/2003	105.62	48.85	56.77
MW-21	Shallow Gaspur	4/16/2004	105.62	49.19	56.43
MW-21	Shallow Gaspur	8/27/2004	105.62	49.75	55.87
MW-21	Shallow Gaspur	12/22/2004	105.62	50.32	55.30
MW-21	Shallow Gaspur	4/20/2005	105.62	49.67	55.95
MW-21	Shallow Gaspur	6/6/2006	105.62	47.64	57.98
MW-21	Shallow Gaspur	8/28/2006	105.62	47.80	57.82
MW-21	Shallow Gaspur	2/28/2007	105.62	47.54	58.08
MW-21	Shallow Gaspur	3/19/2008	105.62	48.75	56.87
MW-21	Shallow Gaspur	4/14/2008	105.62	48.61	57.01
MW-21	Shallow Gaspur	5/19/2009	105.62	50.46	55.16
MW-21	Shallow Gaspur	7/15/2010	105.62	52.83	52.79
MW-21	Shallow Gaspur	6/13/2011	105.62	53.44	52.18
MW-21	Shallow Gaspur	12/5/2011	105.62	53.01	52.61
MW-21	Shallow Gaspur	6/7/2012	105.62	51.39	54.23
MW-21	Shallow Gaspur	6/7/2012	105.62	52.46	53.16
MW-21	Shallow Gaspur	6/12/2012	105.62	52.46	53.16
MW-21	Shallow Gaspur	12/10/2012	105.62	53.13	52.49
MW-21	Shallow Gaspur	6/17/2013	105.62	55.80	49.82
MW-21	Shallow Gaspur	12/9/2013	105.62	54.84	50.78
MW-21	Shallow Gaspur	6/10/2014	105.62	56.52	49.10
MW-21	Shallow Gaspur	12/15/2014	105.62	56.03	49.59
MW-21	Shallow Gaspur	6/8/2015	105.62	57.75	47.87
MW-21	Shallow Gaspur	12/7/2015	105.62	59.56	46.06
MW-21	Shallow Gaspur	6/6/2016	105.62	60.02	45.60

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-21	Shallow Gaspur	11/28/2016	105.62	61.30	44.32
MW-21	Shallow Gaspur	6/5/2017	105.62	62.10	43.52
MW-21	Shallow Gaspur	12/4/2017	105.62	62.70	42.92
MW-21	Shallow Gaspur	6/4/2018	105.62	63.17	42.45
MW-21	Shallow Gaspur	6/28/2018	105.62	63.25	42.37
MW-21	Shallow Gaspur	12/3/2018	105.62	63.70	41.92
MW-21	Shallow Gaspur	6/10/2019	105.62	64.22	41.40
MW-21	Shallow Gaspur	12/2/2019	105.62	64.77	40.85
MW-21	Shallow Gaspur	6/8/2020	105.62	65.16	40.46
MW-21	Shallow Gaspur	11/17/2020	105.62	65.44	40.18
MW-21	Shallow Gaspur	5/17/2021	105.62	66.04	39.58
MW-21	Shallow Gaspur	11/15/2021	105.62	66.14	39.48
MW-21	Shallow Gaspur	6/21/2022	105.62	66.66	38.96
MW-21	Shallow Gaspur	12/22/2022	105.62	66.98	38.64
MW-21	Shallow Gaspur	5/15/2023	105.62	67.17	38.45
MW-21	Shallow Gaspur	11/27/2023	105.62	67.83	37.79
MW-21	Shallow Gaspur	5/3/2024	105.62	65.71	39.91
MW-21	Shallow Gaspur	11/18/2024	105.62	64.30	41.32
MW-22	Shallow Gaspur	12/18/2003	105.44	48.85	56.59
MW-22	Shallow Gaspur	4/16/2004	105.44	49.17	56.27
MW-22	Shallow Gaspur	8/27/2004	105.44	49.73	55.71
MW-22	Shallow Gaspur	12/22/2004	105.44	50.20	55.24
MW-22	Shallow Gaspur	4/20/2005	105.44	49.63	55.81
MW-22	Shallow Gaspur	6/6/2006	105.44	47.85	57.59
MW-22	Shallow Gaspur	8/28/2006	105.44	47.84	57.60
MW-22	Shallow Gaspur	2/28/2007	105.44	47.58	57.86
MW-22	Shallow Gaspur	3/19/2008	105.44	48.57	56.87
MW-22	Shallow Gaspur	4/14/2008	105.44	48.57	56.87
MW-22	Shallow Gaspur	5/19/2009	105.44	50.41	55.03
MW-22	Shallow Gaspur	7/15/2010	105.44	52.79	52.65
MW-22	Shallow Gaspur	6/13/2011	105.44	NM	NM
MW-22	Shallow Gaspur	12/5/2011	105.44	53.16	52.28
MW-22	Shallow Gaspur	6/7/2012	105.44	52.40	53.04
MW-22	Shallow Gaspur	6/13/2012	105.44	52.40	53.04
MW-22	Shallow Gaspur	12/11/2012	105.44	53.00	52.44
MW-22	Shallow Gaspur	6/17/2013	105.44	54.46	50.98
MW-22	Shallow Gaspur	12/9/2013	105.44	55.09	50.35
MW-22	Shallow Gaspur	6/10/2014	105.44	55.74	49.70
MW-22	Shallow Gaspur	12/15/2014	105.44	57.20	48.24
MW-22	Shallow Gaspur	6/8/2015	105.44	57.66	47.78
MW-22	Shallow Gaspur	12/7/2015	105.44	59.45	45.99
MW-22	Shallow Gaspur	6/6/2016	105.32	60.09	45.23

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-22	Shallow Gaspur	11/28/2016	105.32	61.34	43.98
MW-22	Shallow Gaspur	6/5/2017	105.32	61.84	43.48
MW-22	Shallow Gaspur	12/4/2017	105.32	62.45	42.87
MW-22	Shallow Gaspur	6/4/2018	105.32	63.15	42.17
MW-22	Shallow Gaspur	6/28/2018	105.32	62.37	42.95
MW-22	Shallow Gaspur	12/3/2018	105.32	63.87	41.45
MW-22	Shallow Gaspur	6/10/2019	105.32	64.29	41.03
MW-22	Shallow Gaspur	12/2/2019	105.32	64.90	40.42
MW-22	Shallow Gaspur	6/8/2020	105.32	65.08	40.24
MW-22	Shallow Gaspur	11/17/2020	105.32	65.46	39.86
MW-22	Shallow Gaspur	5/17/2021	105.32	65.81	39.51
MW-22	Shallow Gaspur	11/15/2021	105.32	66.24	39.08
MW-22	Shallow Gaspur	6/21/2022	105.32	66.54	38.78
MW-22	Shallow Gaspur	12/22/2022	105.32	66.98	38.34
MW-22	Shallow Gaspur	5/15/2023	105.32	66.88	38.44
MW-22	Shallow Gaspur	11/27/2023	105.32	66.66	38.66
MW-22	Shallow Gaspur	5/3/2024	105.32	65.57	39.75
MW-22	Shallow Gaspur	11/18/2024	105.32	64.18	41.14
MW-23	Shallow Gaspur	12/18/2003	106.09	49.04	57.05
MW-23	Shallow Gaspur	4/16/2004	106.09	49.34	56.75
MW-23	Shallow Gaspur	8/27/2004	106.09	49.89	56.20
MW-23	Shallow Gaspur	12/22/2004	106.09	50.41	55.68
MW-23	Shallow Gaspur	4/20/2005	106.09	49.88	56.21
MW-23	Shallow Gaspur	6/6/2006	106.09	48.17	57.92
MW-23	Shallow Gaspur	8/28/2006	106.09	48.12	57.97
MW-23	Shallow Gaspur	2/28/2007	106.09	47.82	58.27
MW-23	Shallow Gaspur	3/19/2008	106.09	48.83	57.26
MW-23	Shallow Gaspur	4/14/2008	106.09	48.81	57.28
MW-23	Shallow Gaspur	5/19/2009	106.09	50.55	55.54
MW-23	Shallow Gaspur	7/15/2010	106.09	53.02	53.07
MW-23	Shallow Gaspur	6/13/2011	106.09	53.73	52.36
MW-23	Shallow Gaspur	12/5/2011	106.09	53.41	52.68
MW-23	Shallow Gaspur	6/8/2012	106.09	53.41	52.68
MW-23	Shallow Gaspur	12/11/2012	106.09	53.31	52.78
MW-23	Shallow Gaspur	6/17/2013	106.09	55.89	50.20
MW-23	Shallow Gaspur	12/9/2013	106.09	56.24	49.85
MW-23	Shallow Gaspur	6/9/2014	106.09	56.15	49.94
MW-23	Shallow Gaspur	12/15/2014	106.09	57.40	48.69
MW-23	Shallow Gaspur	6/8/2015	106.09	58.20	47.89
MW-23	Shallow Gaspur	12/7/2015	106.09	59.52	46.57
MW-23	Shallow Gaspur	6/6/2016	106.09	60.29	45.80
MW-23	Shallow Gaspur	11/28/2016	106.09	61.37	44.72

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-23	Shallow Gaspur	6/5/2017	106.09	62.00	44.09
MW-23	Shallow Gaspur	12/4/2017	106.09	62.50	43.59
MW-23	Shallow Gaspur	6/4/2018	106.09	61.80	44.29
MW-23	Shallow Gaspur	6/28/2018	106.09	63.31	42.78
MW-23	Shallow Gaspur	12/3/2018	106.09	63.88	42.21
MW-23	Shallow Gaspur	6/10/2019	106.09	64.43	41.66
MW-23	Shallow Gaspur	12/2/2019	106.09	64.99	41.10
MW-23	Shallow Gaspur	6/8/2020	106.09	65.39	40.70
MW-23	Shallow Gaspur	11/17/2020	106.09	65.66	40.43
MW-23	Shallow Gaspur	5/17/2021	106.09	66.09	40.00
MW-23	Shallow Gaspur	11/15/2021	106.09	66.35	39.74
MW-23	Shallow Gaspur	6/21/2022	106.09	66.64	39.45
MW-23	Shallow Gaspur	12/22/2022	106.09	66.92	39.17
MW-23	Shallow Gaspur	5/15/2023	106.09	67.14	38.95
MW-23	Shallow Gaspur	11/27/2023	106.09	67.30	38.79
MW-23	Shallow Gaspur	5/6/2024	106.09	66.08	40.01
MW-23	Shallow Gaspur	11/18/2024	106.09	65.00	41.09
MW-23A	Shallow Gaspur	9/26/2011	105.51	53.62	51.89
MW-23A	Shallow Gaspur	12/5/2011	105.51	58.22	47.29
MW-23A	Shallow Gaspur	3/26/2012	105.51	52.51	53.00
MW-23A	Shallow Gaspur	6/7/2012	105.51	52.14	53.37
MW-23A	Shallow Gaspur	6/8/2012	105.51	52.14	53.37
MW-23A	Shallow Gaspur	12/12/2012	105.51	52.72	52.79
MW-23A	Shallow Gaspur	6/17/2013	105.51	54.18	51.33
MW-23A	Shallow Gaspur	12/9/2013	105.51	54.78	50.73
MW-23A	Shallow Gaspur	6/10/2014	105.51	55.51	50.00
MW-23A	Shallow Gaspur	12/15/2014	105.51	56.72	48.79
MW-23A	Shallow Gaspur	6/8/2015	105.51	57.37	48.14
MW-23A	Shallow Gaspur	12/7/2015	105.51	58.85	46.66
MW-23A	Shallow Gaspur	6/6/2016	105.51	59.54	45.97
MW-23A	Shallow Gaspur	11/28/2016	105.51	60.72	44.79
MW-23A	Shallow Gaspur	6/9/2017	105.51	61.40	44.11
MW-23A	Shallow Gaspur	12/4/2017	105.51	61.94	43.57
MW-23A	Shallow Gaspur	6/4/2018	105.51	61.36	44.15
MW-23A	Shallow Gaspur	6/28/2018	105.51	62.61	42.90
MW-23A	Shallow Gaspur	12/3/2018	105.51	63.22	42.29
MW-23A	Shallow Gaspur	6/10/2019	105.51	63.75	41.76
MW-23A	Shallow Gaspur	12/2/2019	105.51	64.30	41.21
MW-23A	Shallow Gaspur	6/8/2020	105.51	64.68	40.83
MW-23A	Shallow Gaspur	11/17/2020	105.51	64.75	40.76
MW-23A	Shallow Gaspur	5/17/2021	105.51	Dry	Dry
MW-23A	Shallow Gaspur	11/15/2021	105.51	65.00	40.51

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-23A	Shallow Gaspur	6/21/2022	105.51	Dry	Dry
MW-23A	Shallow Gaspur	12/22/2022	105.51	Dry	Dry
MW-23A	Shallow Gaspur	5/15/2023	105.51	Dry	Dry
MW-23A	Shallow Gaspur	11/27/2023	105.51	Dry	Dry
MW-23A	Shallow Gaspur	5/6/2024	105.51	Dry	Dry
MW-23A	Shallow Gaspur	11/18/2024	105.51	Dry	Dry
MW-23B	Lower Gaspur	5/19/2009	106.06	52.44	53.62
MW-23B	Lower Gaspur	7/15/2010	106.06	54.80	51.26
MW-23B	Lower Gaspur	6/13/2011	106.06	53.34	52.72
MW-23B	Lower Gaspur	12/5/2011	106.06	54.90	51.16
MW-23B	Lower Gaspur	6/7/2012	106.06	54.20	51.86
MW-23B	Lower Gaspur	6/12/2012	106.06	54.20	51.86
MW-23B	Lower Gaspur	12/10/2012	106.06	52.79	53.27
MW-23B	Lower Gaspur	6/17/2013	106.06	56.22	49.84
MW-23B	Lower Gaspur	12/9/2013	106.06	56.40	49.66
MW-23B	Lower Gaspur	6/9/2014	106.06	57.62	48.44
MW-23B	Lower Gaspur	12/15/2014	106.06	59.13	46.93
MW-23B	Lower Gaspur	6/8/2015	106.06	59.82	46.24
MW-23B	Lower Gaspur	12/7/2015	106.06	60.68	45.38
MW-23B	Lower Gaspur	6/6/2016	106.06	61.47	44.59
MW-23B	Lower Gaspur	11/28/2016	106.06	62.52	43.54
MW-23B	Lower Gaspur	6/5/2017	106.06	NM	NM
MW-23B	Lower Gaspur	12/4/2017	106.06	63.80	42.26
MW-23B	Lower Gaspur	6/4/2018	106.06	60.58	45.48
MW-23B	Lower Gaspur	6/28/2018	106.06	64.50	41.56
MW-23B	Lower Gaspur	12/3/2018	106.06	65.28	40.78
MW-23B	Lower Gaspur	6/10/2019	106.06	65.73	40.33
MW-23B	Lower Gaspur	12/2/2019	106.06	66.30	39.76
MW-23B	Lower Gaspur	6/8/2020	106.06	66.53	39.53
MW-23B	Lower Gaspur	11/17/2020	106.06	66.88	39.18
MW-23B	Lower Gaspur	5/17/2021	106.06	67.24	38.82
MW-23B	Lower Gaspur	11/15/2021	106.06	67.61	38.45
MW-23B	Lower Gaspur	6/21/2022	106.06	67.88	38.18
MW-23B	Lower Gaspur	12/22/2022	106.06	68.20	37.86
MW-23B	Lower Gaspur	5/15/2023	106.06	68.27	37.79
MW-23B	Lower Gaspur	11/27/2023	106.06	67.81	38.25
MW-23B	Lower Gaspur	5/6/2024	106.06	66.51	39.55
MW-23B	Lower Gaspur	11/18/2024	106.06	64.69	41.37
MW-24	Shallow Gaspur	12/18/2003	104.04	47.88	56.16
MW-24	Shallow Gaspur	4/16/2004	104.04	48.21	55.83
MW-24	Shallow Gaspur	8/27/2004	104.04	48.76	55.28
MW-24	Shallow Gaspur	12/22/2004	104.04	49.23	54.81

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-24	Shallow Gaspur	4/20/2005	104.04	48.60	55.44
MW-24	Shallow Gaspur	6/6/2006	104.04	46.82	57.22
MW-24	Shallow Gaspur	8/28/2006	104.04	46.80	57.24
MW-24	Shallow Gaspur	2/28/2007	104.04	46.58	57.46
MW-24	Shallow Gaspur	3/19/2008	104.04	47.67	56.37
MW-24	Shallow Gaspur	4/14/2008	104.04	47.61	56.43
MW-24	Shallow Gaspur	5/4/2009	104.04	49.41	54.63
MW-24	Shallow Gaspur	5/19/2009	104.04	49.44	54.60
MW-24	Shallow Gaspur	7/15/2010	104.04	51.83	52.21
MW-24	Shallow Gaspur	6/13/2011	104.04	52.30	51.74
MW-24	Shallow Gaspur	12/5/2011	104.04	52.09	51.95
MW-24	Shallow Gaspur	6/7/2012	104.04	51.34	52.70
MW-24	Shallow Gaspur	6/8/2012	104.04	51.34	52.70
MW-24	Shallow Gaspur	12/10/2012	104.04	52.21	51.83
MW-24	Shallow Gaspur	6/17/2013	104.04	53.18	50.86
MW-24	Shallow Gaspur	12/9/2013	104.04	53.86	50.18
MW-24	Shallow Gaspur	3/27/2014	104.04	54.08	49.96
MW-24	Shallow Gaspur	6/9/2014	104.04	54.75	49.29
MW-24	Shallow Gaspur	12/15/2014	104.04	56.10	47.94
MW-24	Shallow Gaspur	6/8/2015	104.04	56.79	47.25
MW-24	Shallow Gaspur	12/7/2015	104.04	58.48	45.56
MW-24	Shallow Gaspur	6/6/2016	103.96	59.25	44.71
MW-24	Shallow Gaspur	11/28/2016	103.96	60.34	43.62
MW-24	Shallow Gaspur	6/9/2017	103.96	61.00	42.96
MW-24	Shallow Gaspur	12/4/2017	103.96	61.56	42.40
MW-24	Shallow Gaspur	6/4/2018	103.96	NM	NM
MW-24	Shallow Gaspur	6/28/2018	103.96	62.24	41.72
MW-24	Shallow Gaspur	12/3/2018	103.96	62.94	41.02
MW-24	Shallow Gaspur	6/10/2019	103.96	63.28	40.68
MW-24	Shallow Gaspur	12/2/2019	103.96	63.89	40.07
MW-24	Shallow Gaspur	6/8/2020	103.96	64.23	39.73
MW-24	Shallow Gaspur	11/17/2020	103.96	64.50	39.46
MW-24	Shallow Gaspur	5/17/2021	103.96	64.87	39.09
MW-24	Shallow Gaspur	11/15/2021	103.96	65.14	38.82
MW-24	Shallow Gaspur	6/21/2022	103.96	65.54	38.42
MW-24	Shallow Gaspur	12/22/2022	103.96	65.81	38.15
MW-24	Shallow Gaspur	5/15/2023	103.96	65.92	38.04
MW-24	Shallow Gaspur	11/27/2023	103.96	65.68	38.28
MW-24	Shallow Gaspur	5/3/2024	103.96	64.47	39.49
MW-24	Shallow Gaspur	11/18/2024	103.96	62.98	40.98
MW-25	Intermediate Gaspur	12/18/2003	103.84	47.80	56.04
MW-25	Intermediate Gaspur	4/16/2004	103.84	48.12	55.72

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-25	Intermediate Gaspur	8/27/2004	103.84	48.67	55.17
MW-25	Intermediate Gaspur	12/22/2004	103.84	49.24	54.60
MW-25	Intermediate Gaspur	4/20/2005	103.84	48.50	55.34
MW-25	Intermediate Gaspur	6/6/2006	103.84	46.74	57.10
MW-25	Intermediate Gaspur	8/28/2006	103.84	46.68	57.16
MW-25	Intermediate Gaspur	2/28/2007	103.84	46.45	57.39
MW-25	Intermediate Gaspur	3/19/2008	103.84	47.57	56.27
MW-25	Intermediate Gaspur	4/14/2008	103.84	47.50	56.34
MW-25	Intermediate Gaspur	5/4/2009	103.84	49.21	54.63
MW-25	Intermediate Gaspur	5/19/2009	103.84	49.35	54.49
MW-25	Intermediate Gaspur	7/15/2010	103.84	51.82	52.02
MW-25	Intermediate Gaspur	6/13/2011	103.84	52.23	51.61
MW-25	Intermediate Gaspur	12/5/2011	103.84	51.92	51.92
MW-25	Intermediate Gaspur	6/7/2012	103.84	51.32	52.52
MW-25	Intermediate Gaspur	6/12/2012	103.84	51.32	52.52
MW-25	Intermediate Gaspur	12/10/2012	103.84	51.86	51.98
MW-25	Intermediate Gaspur	6/17/2013	103.84	53.03	50.81
MW-25	Intermediate Gaspur	12/9/2013	103.84	53.79	50.05
MW-25	Intermediate Gaspur	3/27/2014	103.84	54.02	49.82
MW-25	Intermediate Gaspur	6/10/2014	103.84	54.62	49.22
MW-25	Intermediate Gaspur	12/15/2014	103.84	56.24	47.60
MW-25	Intermediate Gaspur	6/8/2015	103.84	56.70	47.14
MW-25	Intermediate Gaspur	12/7/2015	103.84	58.38	45.46
MW-25	Intermediate Gaspur	6/6/2016	103.74	59.22	44.52
MW-25	Intermediate Gaspur	11/28/2016	103.74	60.30	43.44
MW-25	Intermediate Gaspur	6/9/2017	103.74	61.05	42.69
MW-25	Intermediate Gaspur	12/4/2017	103.74	61.52	42.22
MW-25	Intermediate Gaspur	6/4/2018	103.74	61.98	41.76
MW-25	Intermediate Gaspur	6/28/2018	103.74	62.23	41.51
MW-25	Intermediate Gaspur	12/3/2018	103.74	62.91	40.83
MW-25	Intermediate Gaspur	6/10/2019	103.74	63.34	40.40
MW-25	Intermediate Gaspur	12/2/2019	103.74	63.87	39.87
MW-25	Intermediate Gaspur	6/8/2020	103.74	64.16	39.58
MW-25	Intermediate Gaspur	11/17/2020	103.74	64.53	39.21
MW-25	Intermediate Gaspur	5/18/2021	103.74	64.73	39.01
MW-25	Intermediate Gaspur	11/15/2021	103.74	65.02	38.72
MW-25	Intermediate Gaspur	6/21/2022	103.74	65.44	38.30
MW-25	Intermediate Gaspur	12/22/2022	103.74	65.68	38.06
MW-25	Intermediate Gaspur	5/15/2023	103.74	65.95	37.79
MW-25	Intermediate Gaspur	12/1/2023	103.74	65.65	38.09
MW-25	Intermediate Gaspur	5/3/2024	103.74	64.32	39.42
MW-25	Intermediate Gaspur	11/22/2024	103.74	62.85	40.89

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-25B	Lower Gaspur	3/19/2008	103.58	47.42	56.16
MW-25B	Lower Gaspur	4/14/2008	103.58	47.43	56.15
MW-25B	Lower Gaspur	5/4/2009	103.58	49.31	54.27
MW-25B	Lower Gaspur	5/19/2009	103.58	49.27	54.31
MW-25B	Lower Gaspur	7/15/2010	103.58	51.63	51.95
MW-25B	Lower Gaspur	6/13/2011	103.58	52.17	51.41
MW-25B	Lower Gaspur	12/5/2011	103.58	51.84	51.74
MW-25B	Lower Gaspur	6/7/2012	103.58	51.23	52.35
MW-25B	Lower Gaspur	6/12/2012	103.58	51.23	52.35
MW-25B	Lower Gaspur	12/10/2012	103.58	51.53	52.05
MW-25B	Lower Gaspur	6/17/2013	103.58	52.90	50.68
MW-25B	Lower Gaspur	12/9/2013	103.58	53.60	49.98
MW-25B	Lower Gaspur	3/27/2014	103.58	53.98	49.60
MW-25B	Lower Gaspur	6/10/2014	103.58	54.54	49.04
MW-25B	Lower Gaspur	12/15/2014	103.58	55.90	47.68
MW-25B	Lower Gaspur	6/8/2015	103.58	56.62	46.96
MW-25B	Lower Gaspur	12/7/2015	103.58	58.35	45.23
MW-25B	Lower Gaspur	6/6/2016	103.54	59.24	44.30
MW-25B	Lower Gaspur	11/28/2016	103.54	60.40	43.14
MW-25B	Lower Gaspur	6/9/2017	103.54	61.06	42.48
MW-25B	Lower Gaspur	12/4/2017	103.54	61.62	41.92
MW-25B	Lower Gaspur	6/4/2018	103.54	62.64	40.90
MW-25B	Lower Gaspur	6/28/2018	103.54	62.26	41.28
MW-25B	Lower Gaspur	12/3/2018	103.54	63.06	40.48
MW-25B	Lower Gaspur	6/10/2019	103.54	63.35	40.19
MW-25B	Lower Gaspur	12/2/2019	103.54	63.91	39.63
MW-25B	Lower Gaspur	6/8/2020	103.54	64.10	39.44
MW-25B	Lower Gaspur	11/17/2020	103.54	64.53	39.01
MW-25B	Lower Gaspur	5/18/2021	103.54	64.76	38.78
MW-25B	Lower Gaspur	11/15/2021	103.54	65.14	38.40
MW-25B	Lower Gaspur	6/21/2022	103.54	65.70	37.84
MW-25B	Lower Gaspur	12/22/2022	103.54	65.77	37.77
MW-25B	Lower Gaspur	5/15/2023	103.54	66.10	37.44
MW-25B	Lower Gaspur	12/1/2023	103.54	65.61	37.93
MW-25B	Lower Gaspur	5/3/2024	103.54	64.21	39.33
MW-25B	Lower Gaspur	11/22/2024	103.54	62.87	40.67
MW-26	Exposition	12/18/2003	103.99	52.24	51.75
MW-26	Exposition	4/16/2004	103.99	52.76	51.23
MW-26	Exposition	8/27/2004	103.99	53.47	50.52
MW-26	Exposition	12/22/2004	103.99	54.00	49.99
MW-26	Exposition	4/20/2005	103.99	53.54	50.45
MW-26	Exposition	6/6/2006	103.99	51.35	52.64

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-26	Exposition	8/28/2006	103.99	51.35	52.64
MW-26	Exposition	2/28/2007	103.99	50.88	53.11
MW-26	Exposition	3/19/2008	103.99	52.11	51.88
MW-26	Exposition	4/14/2008	103.99	52.18	51.81
MW-26	Exposition	5/19/2009	103.99	54.53	49.46
MW-26	Exposition	7/15/2010	103.99	57.17	46.82
MW-26	Exposition	6/13/2011	103.99	57.50	46.49
MW-26	Exposition	12/5/2011	103.99	51.92	52.07
MW-26	Exposition	3/26/2012	103.99	56.26	47.73
MW-26	Exposition	6/7/2012	103.99	55.99	48.00
MW-26	Exposition	12/10/2012	103.99	56.52	47.47
MW-26	Exposition	6/17/2013	103.99	57.38	46.61
MW-26	Exposition	12/9/2013	103.99	58.61	45.38
MW-26	Exposition	3/27/2014	103.99	59.30	44.69
MW-26	Exposition	6/10/2014	103.99	59.91	44.08
MW-26	Exposition	12/15/2014	103.99	60.87	43.12
MW-26	Exposition	6/8/2015	103.99	62.86	41.13
MW-26	Exposition	12/7/2015	103.99	64.45	39.54
MW-26	Exposition	6/6/2016	103.86	65.42	38.44
MW-26	Exposition	11/28/2016	103.86	66.62	37.24
MW-26	Exposition	6/9/2017	103.86	67.27	36.59
MW-26	Exposition	12/4/2017	103.86	67.58	36.28
MW-26	Exposition	6/4/2018	103.86	68.23	35.63
MW-26	Exposition	6/28/2018	103.86	68.30	35.56
MW-26	Exposition	12/3/2018	103.86	68.98	34.88
MW-26	Exposition	6/10/2019	103.86	69.34	34.52
MW-26	Exposition	12/2/2019	103.86	69.90	33.96
MW-26	Exposition	6/8/2020	103.86	70.02	33.84
MW-26	Exposition	11/17/2020	103.86	70.44	33.42
MW-26	Exposition	5/18/2021	103.86	70.55	33.31
MW-26	Exposition	11/15/2021	103.86	71.04	32.82
MW-26	Exposition	6/21/2022	103.86	NM	NM
MW-26	Exposition	12/22/2022	103.86	71.49	32.37
MW-26	Exposition	5/15/2023	103.86	71.29	32.57
MW-26	Exposition	12/1/2023	103.86	69.93	33.93
MW-26	Exposition	5/6/2024	103.86	67.83	36.03
MW-26	Exposition	11/18/2024	103.86	64.99	38.87
MW-27	Intermediate Gaspur	12/18/2003	103.67	47.86	55.81
MW-27	Intermediate Gaspur	4/16/2004	103.67	48.16	55.51
MW-27	Intermediate Gaspur	8/27/2004	103.67	48.66	55.01
MW-27	Intermediate Gaspur	12/22/2004	103.67	49.16	54.51
MW-27	Intermediate Gaspur	4/20/2005	103.67	48.57	55.10

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-27	Intermediate Gaspur	6/6/2006	103.67	46.77	56.90
MW-27	Intermediate Gaspur	8/28/2006	103.67	46.74	56.93
MW-27	Intermediate Gaspur	2/28/2007	103.67	46.52	57.15
MW-27	Intermediate Gaspur	3/19/2008	103.67	47.51	56.16
MW-27	Intermediate Gaspur	4/14/2008	103.67	47.53	56.14
MW-27	Intermediate Gaspur	5/4/2009	103.67	49.39	54.28
MW-27	Intermediate Gaspur	5/19/2009	103.67	49.44	54.23
MW-27	Intermediate Gaspur	7/15/2010	103.67	51.80	51.87
MW-27	Intermediate Gaspur	6/13/2011	103.67	52.38	51.29
MW-27	Intermediate Gaspur	12/5/2011	103.67	51.86	51.81
MW-27	Intermediate Gaspur	6/7/2012	103.67	51.36	52.31
MW-27	Intermediate Gaspur	6/8/2012	103.67	51.36	52.31
MW-27	Intermediate Gaspur	12/10/2012	103.67	51.92	51.75
MW-27	Intermediate Gaspur	6/17/2013	103.67	53.02	50.65
MW-27	Intermediate Gaspur	12/9/2013	103.67	53.77	49.90
MW-27	Intermediate Gaspur	3/27/2014	103.67	54.07	49.60
MW-27	Intermediate Gaspur	6/10/2014	103.67	54.65	49.02
MW-27	Intermediate Gaspur	12/15/2014	103.67	56.08	47.59
MW-27	Intermediate Gaspur	6/8/2015	103.67	56.84	46.83
MW-27	Intermediate Gaspur	12/7/2015	103.67	58.41	45.26
MW-27	Intermediate Gaspur	6/6/2016	103.60	59.25	44.35
MW-27	Intermediate Gaspur	11/28/2016	103.60	60.35	43.25
MW-27	Intermediate Gaspur	6/9/2017	103.60	61.23	42.37
MW-27	Intermediate Gaspur	12/4/2017	103.60	61.54	42.06
MW-27	Intermediate Gaspur	6/4/2018	103.60	NM	NM
MW-27	Intermediate Gaspur	6/28/2018	103.60	62.20	41.40
MW-27	Intermediate Gaspur	12/3/2018	103.60	62.82	40.78
MW-27	Intermediate Gaspur	6/10/2019	103.60	63.28	40.32
MW-27	Intermediate Gaspur	12/2/2019	103.60	63.89	39.71
MW-27	Intermediate Gaspur	6/8/2020	103.60	64.18	39.42
MW-27	Intermediate Gaspur	11/17/2020	103.60	64.38	39.22
MW-27	Intermediate Gaspur	5/17/2021	103.60	64.84	38.76
MW-27	Intermediate Gaspur	11/15/2021	103.60	65.18	38.42
MW-27	Intermediate Gaspur	6/21/2022	103.60	65.41	38.19
MW-27	Intermediate Gaspur	12/22/2022	103.60	65.64	37.96
MW-27	Intermediate Gaspur	5/15/2023	103.60	66.07	37.53
MW-27	Intermediate Gaspur	11/27/2023	103.60	65.47	38.13
MW-27	Intermediate Gaspur	5/3/2024	103.60	64.20	39.40
MW-27	Intermediate Gaspur	11/18/2024	103.60	62.62	40.98
MW-28	Lower Gaspur	12/18/2003	103.58	48.25	55.33
MW-28	Lower Gaspur	4/16/2004	103.58	48.59	54.99
MW-28	Lower Gaspur	8/27/2004	103.58	49.09	54.49

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-28	Lower Gaspur	12/22/2004	103.58	49.57	54.01
MW-28	Lower Gaspur	4/20/2005	103.58	48.94	54.64
MW-28	Lower Gaspur	6/6/2006	103.58	46.90	56.68
MW-28	Lower Gaspur	8/28/2006	103.58	46.91	56.67
MW-28	Lower Gaspur	2/28/2007	103.58	46.73	56.85
MW-28	Lower Gaspur	3/19/2008	103.58	47.79	55.79
MW-28	Lower Gaspur	4/14/2008	103.58	47.78	55.80
MW-28	Lower Gaspur	5/4/2009	103.58	49.65	53.93
MW-28	Lower Gaspur	5/19/2009	103.58	49.71	53.87
MW-28	Lower Gaspur	7/15/2010	103.58	52.10	51.48
MW-28	Lower Gaspur	6/13/2011	103.58	52.51	51.07
MW-28	Lower Gaspur	6/7/2012	103.58	51.43	52.15
MW-28	Lower Gaspur	6/12/2012	103.58	51.43	52.15
MW-28	Lower Gaspur	12/10/2012	103.58	52.01	51.57
MW-28	Lower Gaspur	6/17/2013	103.58	53.01	50.57
MW-28	Lower Gaspur	12/9/2013	103.58	53.84	49.74
MW-28	Lower Gaspur	3/27/2014	103.58	54.17	49.41
MW-28	Lower Gaspur	6/10/2014	103.58	54.75	48.83
MW-28	Lower Gaspur	12/15/2014	103.58	56.17	47.41
MW-28	Lower Gaspur	6/8/2015	103.58	57.01	46.57
MW-28	Lower Gaspur	12/7/2015	103.58	58.59	44.99
MW-28	Lower Gaspur	6/6/2016	103.53	59.42	44.11
MW-28	Lower Gaspur	11/28/2016	103.53	60.69	42.84
MW-28	Lower Gaspur	6/9/2017	103.53	61.20	42.33
MW-28	Lower Gaspur	12/4/2017	103.53	61.76	41.77
MW-28	Lower Gaspur	6/4/2018	103.53	62.07	41.46
MW-28	Lower Gaspur	6/28/2018	103.53	62.43	41.10
MW-28	Lower Gaspur	12/3/2018	103.53	63.09	40.44
MW-28	Lower Gaspur	6/10/2019	103.53	63.46	40.07
MW-28	Lower Gaspur	12/2/2019	103.53	64.14	39.39
MW-28	Lower Gaspur	6/8/2020	103.53	64.29	39.24
MW-28	Lower Gaspur	11/17/2020	103.53	64.57	38.96
MW-28	Lower Gaspur	5/17/2021	103.53	65.06	38.47
MW-28	Lower Gaspur	11/15/2021	103.53	65.33	38.20
MW-28	Lower Gaspur	6/21/2022	103.53	65.62	37.91
MW-28	Lower Gaspur	12/22/2022	103.53	66.15	37.38
MW-28	Lower Gaspur	5/15/2023	103.53	65.86	37.67
MW-28	Lower Gaspur	11/27/2023	103.53	65.61	37.92
MW-28	Lower Gaspur	5/3/2024	103.53	64.20	39.33
MW-28	Lower Gaspur	11/18/2024	103.53	62.64	40.89
MW-29	Intermediate Gaspur	12/18/2003	103.18	47.42	55.76
MW-29	Intermediate Gaspur	4/16/2004	103.18	47.71	55.47

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-29	Intermediate Gaspur	8/27/2004	103.18	48.22	54.96
MW-29	Intermediate Gaspur	12/22/2004	103.18	48.74	54.44
MW-29	Intermediate Gaspur	4/20/2005	103.18	48.12	55.06
MW-29	Intermediate Gaspur	6/6/2006	103.18	46.33	56.85
MW-29	Intermediate Gaspur	8/28/2006	103.18	46.30	56.88
MW-29	Intermediate Gaspur	2/28/2007	103.18	46.01	57.17
MW-29	Intermediate Gaspur	3/19/2008	103.18	47.23	55.95
MW-29	Intermediate Gaspur	4/14/2008	103.18	47.08	56.10
MW-29	Intermediate Gaspur	5/4/2009	103.18	48.95	54.23
MW-29	Intermediate Gaspur	5/19/2009	103.18	48.95	54.23
MW-29	Intermediate Gaspur	7/15/2010	103.18	51.34	51.84
MW-29	Intermediate Gaspur	6/13/2011	103.18	51.96	51.22
MW-29	Intermediate Gaspur	12/5/2011	103.18	51.41	51.77
MW-29	Intermediate Gaspur	6/7/2012	103.18	50.82	52.36
MW-29	Intermediate Gaspur	6/8/2012	103.18	50.82	52.36
MW-29	Intermediate Gaspur	12/10/2012	103.18	51.42	51.76
MW-29	Intermediate Gaspur	6/17/2013	103.18	52.52	50.66
MW-29	Intermediate Gaspur	12/9/2013	103.18	53.22	49.96
MW-29	Intermediate Gaspur	3/27/2014	103.18	53.52	49.66
MW-29	Intermediate Gaspur	6/10/2014	103.18	54.10	49.08
MW-29	Intermediate Gaspur	12/15/2014	103.18	55.61	47.57
MW-29	Intermediate Gaspur	6/8/2015	103.18	56.33	46.85
MW-29	Intermediate Gaspur	12/7/2015	103.18	57.84	45.34
MW-29	Intermediate Gaspur	6/6/2016	102.95	58.73	44.22
MW-29	Intermediate Gaspur	11/28/2016	102.95	59.90	43.05
MW-29	Intermediate Gaspur	6/9/2017	102.95	60.54	42.41
MW-29	Intermediate Gaspur	12/4/2017	102.95	61.04	41.91
MW-29	Intermediate Gaspur	6/4/2018	102.95	NM	NM
MW-29	Intermediate Gaspur	6/28/2018	102.95	61.79	41.16
MW-29	Intermediate Gaspur	12/3/2018	102.95	62.41	40.54
MW-29	Intermediate Gaspur	6/10/2019	102.95	62.81	40.14
MW-29	Intermediate Gaspur	12/2/2019	102.95	63.45	39.50
MW-29	Intermediate Gaspur	6/8/2020	102.95	63.72	39.23
MW-29	Intermediate Gaspur	11/17/2020	102.95	63.95	39.00
MW-29	Intermediate Gaspur	5/17/2021	102.95	64.46	38.49
MW-29	Intermediate Gaspur	11/15/2021	102.95	64.67	38.28
MW-29	Intermediate Gaspur	6/21/2022	102.95	64.97	37.98
MW-29	Intermediate Gaspur	12/22/2022	102.95	64.95	38.00
MW-29	Intermediate Gaspur	5/15/2023	102.95	65.45	37.50
MW-29	Intermediate Gaspur	11/27/2023	102.95	64.90	38.05
MW-29	Intermediate Gaspur	5/3/2024	102.95	63.71	39.24
MW-29	Intermediate Gaspur	11/18/2024	102.95	62.34	40.61

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-29A	Shallow Gaspur	3/19/2008	102.92	46.84	56.08
MW-29A	Shallow Gaspur	4/14/2008	102.92	46.80	56.12
MW-29A	Shallow Gaspur	5/4/2009	102.92	48.69	54.23
MW-29A	Shallow Gaspur	5/19/2009	102.92	48.68	54.24
MW-29A	Shallow Gaspur	7/15/2010	102.92	51.14	51.78
MW-29A	Shallow Gaspur	6/13/2011	102.92	51.63	51.29
MW-29A	Shallow Gaspur	12/5/2011	102.92	51.17	51.75
MW-29A	Shallow Gaspur	6/7/2012	102.92	50.62	52.30
MW-29A	Shallow Gaspur	6/7/2012	102.92	50.62	52.30
MW-29A	Shallow Gaspur	12/10/2012	102.92	51.12	51.80
MW-29A	Shallow Gaspur	6/17/2013	102.92	52.34	50.58
MW-29A	Shallow Gaspur	12/9/2013	102.92	52.97	49.95
MW-29A	Shallow Gaspur	3/27/2014	102.92	53.44	49.48
MW-29A	Shallow Gaspur	6/9/2014	102.92	54.92	48.00
MW-29A	Shallow Gaspur	12/15/2014	102.92	55.34	47.58
MW-29A	Shallow Gaspur	6/8/2015	102.92	56.09	46.83
MW-29A	Shallow Gaspur	12/7/2015	102.92	57.65	45.27
MW-29A	Shallow Gaspur	6/6/2016	102.95	58.43	44.52
MW-29A	Shallow Gaspur	11/28/2016	102.95	59.50	43.45
MW-29A	Shallow Gaspur	6/5/2017	102.95	60.54	42.41
MW-29A	Shallow Gaspur	12/4/2017	102.95	60.77	42.18
MW-29A	Shallow Gaspur	6/4/2018	102.95	NM	NM
MW-29A	Shallow Gaspur	6/28/2018	102.95	61.52	41.43
MW-29A	Shallow Gaspur	12/3/2018	102.95	62.11	40.84
MW-29A	Shallow Gaspur	6/10/2019	102.95	62.51	40.44
MW-29A	Shallow Gaspur	12/2/2019	102.95	63.10	39.85
MW-29A	Shallow Gaspur	6/8/2020	102.95	63.52	39.43
MW-29A	Shallow Gaspur	11/17/2020	102.95	63.74	39.21
MW-29A	Shallow Gaspur	5/17/2021	102.95	64.46	38.49
MW-29A	Shallow Gaspur	11/15/2021	102.95	64.44	38.51
MW-29A	Shallow Gaspur	6/21/2022	102.95	64.80	38.15
MW-29A	Shallow Gaspur	12/22/2022	102.95	64.91	38.04
MW-29A	Shallow Gaspur	5/15/2023	102.95	65.10	37.85
MW-29A	Shallow Gaspur	11/27/2023	102.95	65.18	37.77
MW-29A	Shallow Gaspur	5/3/2024	102.95	63.83	39.12
MW-29A	Shallow Gaspur	11/18/2024	102.95	62.18	40.77
MW-30	Lower Gaspur	12/18/2003	103.13	47.94	55.19
MW-30	Lower Gaspur	4/16/2004	103.13	47.33	55.80
MW-30	Lower Gaspur	8/27/2004	103.13	48.84	54.29
MW-30	Lower Gaspur	12/22/2004	103.13	49.35	53.78
MW-30	Lower Gaspur	4/20/2005	103.13	48.70	54.43
MW-30	Lower Gaspur	6/6/2006	103.13	46.90	56.23

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-30	Lower Gaspur	8/28/2006	103.13	46.88	56.25
MW-30	Lower Gaspur	2/28/2007	103.13	46.60	56.53
MW-30	Lower Gaspur	3/19/2008	103.13	47.71	55.42
MW-30	Lower Gaspur	4/14/2008	103.13	47.70	55.43
MW-30	Lower Gaspur	5/4/2009	103.13	49.62	53.51
MW-30	Lower Gaspur	5/19/2009	103.13	49.63	53.50
MW-30	Lower Gaspur	7/15/2010	103.13	52.04	51.09
MW-30	Lower Gaspur	6/13/2011	103.13	52.58	50.55
MW-30	Lower Gaspur	12/5/2011	103.13	52.07	51.06
MW-30	Lower Gaspur	6/7/2012	103.13	51.48	51.65
MW-30	Lower Gaspur	6/12/2012	103.13	51.48	51.65
MW-30	Lower Gaspur	12/10/2012	103.13	52.12	51.01
MW-30	Lower Gaspur	6/17/2013	103.13	54.11	49.02
MW-30	Lower Gaspur	12/9/2013	103.13	53.87	49.26
MW-30	Lower Gaspur	3/27/2014	103.13	54.23	48.90
MW-30	Lower Gaspur	6/9/2014	103.13	54.88	48.25
MW-30	Lower Gaspur	12/15/2014	103.13	56.35	46.78
MW-30	Lower Gaspur	6/8/2015	103.13	57.21	45.92
MW-30	Lower Gaspur	12/7/2015	103.13	58.90	44.23
MW-30	Lower Gaspur	6/6/2016	103.09	59.41	43.68
MW-30	Lower Gaspur	11/28/2016	103.09	60.58	42.51
MW-30	Lower Gaspur	6/9/2017	103.09	61.31	41.78
MW-30	Lower Gaspur	12/4/2017	103.09	61.70	41.39
MW-30	Lower Gaspur	6/4/2018	103.09	62.29	40.80
MW-30	Lower Gaspur	6/28/2018	103.09	62.38	40.71
MW-30	Lower Gaspur	12/3/2018	103.09	63.10	39.99
MW-30	Lower Gaspur	6/10/2019	103.09	63.46	39.63
MW-30	Lower Gaspur	12/2/2019	103.09	64.05	39.04
MW-30	Lower Gaspur	6/8/2020	103.09	64.28	38.81
MW-30	Lower Gaspur	11/17/2020	103.09	64.66	38.43
MW-30	Lower Gaspur	5/17/2021	103.09	64.99	38.10
MW-30	Lower Gaspur	11/15/2021	103.09	65.33	37.76
MW-30	Lower Gaspur	6/21/2022	103.09	65.35	37.74
MW-30	Lower Gaspur	12/22/2022	103.09	65.46	37.63
MW-30	Lower Gaspur	5/15/2023	103.09	65.67	37.42
MW-30	Lower Gaspur	11/27/2023	103.09	65.25	37.84
MW-30	Lower Gaspur	5/3/2024	103.09	63.87	39.22
MW-30	Lower Gaspur	11/18/2024	103.09	62.34	40.75
MW-31	Intermediate Gaspur	12/18/2003	103.36	47.43	55.93
MW-31	Intermediate Gaspur	4/16/2004	103.36	47.73	55.63
MW-31	Intermediate Gaspur	8/27/2004	103.36	48.27	55.09
MW-31	Intermediate Gaspur	12/22/2004	103.36	48.66	54.70

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-31	Intermediate Gaspur	4/20/2005	103.36	48.20	55.16
MW-31	Intermediate Gaspur	6/6/2006	103.36	46.48	56.88
MW-31	Intermediate Gaspur	8/28/2006	103.36	46.28	57.08
MW-31	Intermediate Gaspur	2/28/2007	103.36	46.09	57.27
MW-31	Intermediate Gaspur	3/19/2008	103.36	47.26	56.10
MW-31	Intermediate Gaspur	4/14/2008	103.36	47.14	56.22
MW-31	Intermediate Gaspur	5/4/2009	103.36	48.99	54.37
MW-31	Intermediate Gaspur	5/19/2009	103.36	49.00	54.36
MW-31	Intermediate Gaspur	7/15/2010	103.36	51.41	51.95
MW-31	Intermediate Gaspur	6/13/2011	103.36	52.04	51.32
MW-31	Intermediate Gaspur	12/5/2011	103.36	51.62	51.74
MW-31	Intermediate Gaspur	6/7/2012	103.36	51.03	52.33
MW-31	Intermediate Gaspur	6/7/2012	103.36	51.03	52.33
MW-31	Intermediate Gaspur	12/10/2012	103.36	51.62	51.74
MW-31	Intermediate Gaspur	6/17/2013	103.36	52.62	50.74
MW-31	Intermediate Gaspur	12/9/2013	103.36	53.31	50.05
MW-31	Intermediate Gaspur	3/27/2014	103.36	53.73	49.63
MW-31	Intermediate Gaspur	6/9/2014	103.36	54.23	49.13
MW-31	Intermediate Gaspur	12/15/2014	103.36	55.61	47.75
MW-31	Intermediate Gaspur	6/8/2015	103.36	56.44	46.92
MW-31	Intermediate Gaspur	12/7/2015	103.36	57.98	45.38
MW-31	Intermediate Gaspur	6/6/2016	103.30	58.85	44.45
MW-31	Intermediate Gaspur	11/28/2016	103.30	59.98	43.32
MW-31	Intermediate Gaspur	6/9/2017	103.30	60.65	42.65
MW-31	Intermediate Gaspur	12/4/2017	103.30	61.24	42.06
MW-31	Intermediate Gaspur	6/4/2018	103.30	61.60	41.70
MW-31	Intermediate Gaspur	6/28/2018	103.30	61.91	41.39
MW-31	Intermediate Gaspur	12/3/2018	103.30	62.55	40.75
MW-31	Intermediate Gaspur	6/10/2019	103.30	63.04	40.26
MW-31	Intermediate Gaspur	12/2/2019	103.30	63.57	39.73
MW-31	Intermediate Gaspur	6/8/2020	103.30	63.94	39.36
MW-31	Intermediate Gaspur	11/17/2020	103.30	64.19	39.11
MW-31	Intermediate Gaspur	5/17/2021	103.30	64.86	38.44
MW-31	Intermediate Gaspur	11/15/2021	103.30	64.87	38.43
MW-31	Intermediate Gaspur	6/21/2022	103.30	65.11	38.19
MW-31	Intermediate Gaspur	12/22/2022	103.30	65.66	37.64
MW-31	Intermediate Gaspur	5/15/2023	103.30	65.65	37.65
MW-31	Intermediate Gaspur	11/27/2023	103.30	65.38	37.92
MW-31	Intermediate Gaspur	5/3/2024	103.30	64.05	39.25
MW-31	Intermediate Gaspur	11/18/2024	103.30	62.55	40.75
MW-31A	Shallow Gaspur	3/19/2008	103.08	46.78	56.30
MW-31A	Shallow Gaspur	4/14/2008	103.08	46.70	56.38

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-31A	Shallow Gaspur	5/4/2009	103.08	48.55	54.53
MW-31A	Shallow Gaspur	5/19/2009	103.08	48.56	54.52
MW-31A	Shallow Gaspur	7/15/2010	103.08	50.92	52.16
MW-31A	Shallow Gaspur	6/13/2011	103.08	51.50	51.58
MW-31A	Shallow Gaspur	12/5/2011	103.08	51.22	51.86
MW-31A	Shallow Gaspur	6/7/2012	103.08	50.53	52.55
MW-31A	Shallow Gaspur	6/7/2012	103.08	50.53	52.55
MW-31A	Shallow Gaspur	12/10/2012	103.08	50.92	52.16
MW-31A	Shallow Gaspur	6/17/2013	103.08	52.14	50.94
MW-31A	Shallow Gaspur	12/9/2013	103.08	52.92	50.16
MW-31A	Shallow Gaspur	3/27/2014	103.08	53.23	49.85
MW-31A	Shallow Gaspur	6/9/2014	103.08	53.71	49.37
MW-31A	Shallow Gaspur	12/15/2014	103.08	55.00	48.08
MW-31A	Shallow Gaspur	6/8/2015	103.08	55.94	47.14
MW-31A	Shallow Gaspur	12/7/2015	103.08	57.48	45.60
MW-31A	Shallow Gaspur	6/6/2016	103.07	58.18	44.89
MW-31A	Shallow Gaspur	11/28/2016	103.07	59.29	43.78
MW-31A	Shallow Gaspur	6/9/2017	103.07	60.03	43.04
MW-31A	Shallow Gaspur	12/4/2017	103.07	60.64	42.43
MW-31A	Shallow Gaspur	6/4/2018	103.07	60.94	42.13
MW-31A	Shallow Gaspur	6/28/2018	103.07	61.29	41.78
MW-31A	Shallow Gaspur	12/3/2018	103.07	62.07	41.00
MW-31A	Shallow Gaspur	6/10/2019	103.07	62.70	40.37
MW-31A	Shallow Gaspur	12/2/2019	103.07	63.36	39.71
MW-31A	Shallow Gaspur	6/8/2020	103.07	63.49	39.58
MW-31A	Shallow Gaspur	11/17/2020	103.07	Dry	Dry
MW-31A	Shallow Gaspur	5/17/2021	103.07	Dry	Dry
MW-31A	Shallow Gaspur	11/15/2021	103.07	Dry	Dry
MW-31A	Shallow Gaspur	6/21/2022	103.07	Dry	Dry
MW-31A	Shallow Gaspur	12/22/2022	103.07	Dry	Dry
MW-31A	Shallow Gaspur	5/15/2023	103.07	Dry	Dry
MW-31A	Shallow Gaspur	11/27/2023	103.07	Dry	Dry
MW-31A	Shallow Gaspur	5/3/2024	103.07	Dry	Dry
MW-31A	Shallow Gaspur	11/18/2024	103.07	Dry	Dry
MW-31B	Lower Gaspur	3/19/2008	103.17	47.34	55.83
MW-31B	Lower Gaspur	4/14/2008	103.17	47.40	55.77
MW-31B	Lower Gaspur	5/4/2009	103.17	49.25	53.92
MW-31B	Lower Gaspur	5/19/2009	103.17	49.27	53.90
MW-31B	Lower Gaspur	7/15/2010	103.17	51.71	51.46
MW-31B	Lower Gaspur	6/13/2011	103.17	52.20	50.97
MW-31B	Lower Gaspur	12/5/2011	103.17	51.91	51.26
MW-31B	Lower Gaspur	6/7/2012	103.17	51.18	51.99

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-31B	Lower Gaspur	6/8/2012	103.17	51.18	51.99
MW-31B	Lower Gaspur	12/10/2012	103.17	51.82	51.35
MW-31B	Lower Gaspur	6/17/2013	103.17	52.70	50.47
MW-31B	Lower Gaspur	12/9/2013	103.17	53.53	49.64
MW-31B	Lower Gaspur	3/27/2014	103.17	53.92	49.25
MW-31B	Lower Gaspur	6/9/2014	103.17	54.43	48.74
MW-31B	Lower Gaspur	12/15/2014	103.17	55.84	47.33
MW-31B	Lower Gaspur	6/8/2015	103.17	56.77	46.40
MW-31B	Lower Gaspur	12/7/2015	103.17	58.30	44.87
MW-31B	Lower Gaspur	6/6/2016	103.15	59.07	44.08
MW-31B	Lower Gaspur	11/28/2016	103.15	60.13	43.02
MW-31B	Lower Gaspur	6/9/2017	103.15	60.90	42.25
MW-31B	Lower Gaspur	12/4/2017	103.15	61.45	41.70
MW-31B	Lower Gaspur	6/4/2018	103.15	61.88	41.27
MW-31B	Lower Gaspur	6/28/2018	103.15	62.01	41.14
MW-31B	Lower Gaspur	12/3/2018	103.15	62.74	40.41
MW-31B	Lower Gaspur	6/10/2019	103.15	63.01	40.14
MW-31B	Lower Gaspur	12/2/2019	103.15	63.63	39.52
MW-31B	Lower Gaspur	6/8/2020	103.15	63.81	39.34
MW-31B	Lower Gaspur	11/17/2020	103.15	64.17	38.98
MW-31B	Lower Gaspur	5/17/2021	103.15	64.60	38.55
MW-31B	Lower Gaspur	11/15/2021	103.15	64.90	38.25
MW-31B	Lower Gaspur	6/21/2022	103.15	65.17	37.98
MW-31B	Lower Gaspur	12/22/2022	103.15	65.71	37.44
MW-31B	Lower Gaspur	5/15/2023	103.15	65.20	37.95
MW-31B	Lower Gaspur	11/27/2023	103.15	65.36	37.79
MW-31B	Lower Gaspur	5/3/2024	103.15	63.95	39.20
MW-31B	Lower Gaspur	11/18/2024	103.15	62.47	40.68
MW-32	Exposition	12/18/2003	103.33	51.74	51.59
MW-32	Exposition	4/16/2004	103.33	52.26	51.07
MW-32	Exposition	8/27/2004	103.33	52.97	50.36
MW-32	Exposition	12/22/2004	103.33	53.50	49.83
MW-32	Exposition	4/20/2005	103.33	53.07	50.26
MW-32	Exposition	6/6/2006	103.33	50.87	52.46
MW-32	Exposition	8/28/2006	103.33	50.90	52.43
MW-32	Exposition	2/28/2007	103.33	50.37	52.96
MW-32	Exposition	3/19/2008	103.33	51.54	51.79
MW-32	Exposition	4/14/2008	103.33	51.71	51.62
MW-32	Exposition	5/19/2009	103.33	54.07	49.26
MW-32	Exposition	7/15/2010	103.33	56.68	46.65
MW-32	Exposition	6/13/2011	103.33	57.12	46.21
MW-32	Exposition	12/5/2011	103.33	56.32	47.01

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-32	Exposition	6/7/2012	103.33	55.52	47.81
MW-32	Exposition	6/7/2012	103.33	55.52	47.81
MW-32	Exposition	12/10/2012	103.33	55.92	47.41
MW-32	Exposition	6/17/2013	103.33	56.92	46.41
MW-32	Exposition	3/27/2014	103.33	58.70	44.63
MW-32	Exposition	6/11/2014	103.33	59.41	43.92
MW-32	Exposition	12/15/2014	103.33	61.31	42.02
MW-32	Exposition	6/8/2015	103.33	62.50	40.83
MW-32	Exposition	12/7/2015	103.33	64.04	39.29
MW-32	Exposition	6/6/2016	103.27	65.02	38.25
MW-32	Exposition	11/28/2016	103.27	66.19	37.08
MW-32	Exposition	6/9/2017	103.27	66.73	36.54
MW-32	Exposition	12/4/2017	103.27	67.17	36.10
MW-32	Exposition	6/4/2018	103.27	67.67	35.60
MW-32	Exposition	6/28/2018	103.27	67.70	35.57
MW-32	Exposition	12/3/2018	103.27	68.50	34.77
MW-32	Exposition	6/10/2019	103.27	68.85	34.42
MW-32	Exposition	12/2/2019	103.27	69.50	33.77
MW-32	Exposition	6/8/2020	103.27	69.48	33.79
MW-32	Exposition	11/17/2020	103.27	69.96	33.31
MW-32	Exposition	5/17/2021	103.27	70.11	33.16
MW-32	Exposition	11/15/2021	103.27	70.69	32.58
MW-32	Exposition	6/21/2022	103.27	70.79	32.48
MW-32	Exposition	12/22/2022	103.27	71.17	32.10
MW-32	Exposition	5/15/2023	103.27	70.90	32.37
MW-32	Exposition	11/27/2023	103.27	69.52	33.75
MW-32	Exposition	5/3/2024	103.27	67.25	36.02
MW-32	Exposition	11/18/2024	103.27	64.41	38.86
MW-33A	Shallow Gaspur	6/6/2006	104.96	46.73	58.23
MW-33A	Shallow Gaspur	8/28/2006	104.96	47.20	57.76
MW-33A	Shallow Gaspur	3/19/2008	104.96	47.82	57.14
MW-33A	Shallow Gaspur	4/14/2008	104.96	47.92	57.04
MW-33A	Shallow Gaspur	5/19/2009	104.96	49.84	55.12
MW-33A	Shallow Gaspur	7/15/2010	104.96	52.14	52.82
MW-33A	Shallow Gaspur	6/13/2011	104.96	52.78	52.18
MW-33A	Shallow Gaspur	12/5/2011	104.96	52.49	52.47
MW-33A	Shallow Gaspur	6/7/2012	104.96	51.84	53.12
MW-33A	Shallow Gaspur	6/8/2012	104.96	51.84	53.12
MW-33A	Shallow Gaspur	12/10/2012	104.96	52.51	52.45
MW-33A	Shallow Gaspur	6/17/2013	104.96	54.54	50.42
MW-33A	Shallow Gaspur	12/9/2013	104.96	55.10	49.86
MW-33A	Shallow Gaspur	6/9/2014	104.96	55.64	49.32

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-33A	Shallow Gaspur	12/15/2014	104.96	56.88	48.08
MW-33A	Shallow Gaspur	6/8/2015	104.96	57.05	47.91
MW-33A	Shallow Gaspur	12/7/2015	104.96	58.84	46.12
MW-33A	Shallow Gaspur	6/6/2016	104.96	59.60	45.36
MW-33A	Shallow Gaspur	11/28/2016	104.96	60.72	44.24
MW-33A	Shallow Gaspur	6/9/2017	104.96	61.12	43.84
MW-33A	Shallow Gaspur	12/4/2017	104.96	61.81	43.15
MW-33A	Shallow Gaspur	6/4/2018	104.96	Dry	Dry
MW-33A	Shallow Gaspur	6/28/2018	104.96	62.66	42.30
MW-33A	Shallow Gaspur	12/3/2018	104.96	Dry	Dry
MW-33A	Shallow Gaspur	6/10/2019	104.96	Dry	Dry
MW-33A	Shallow Gaspur	12/2/2019	104.96	Dry	Dry
MW-33A	Shallow Gaspur	6/8/2020	104.96	Dry	Dry
MW-33A	Shallow Gaspur	11/17/2020	104.96	Dry	Dry
MW-33A	Shallow Gaspur	5/17/2021	104.96	Dry	Dry
MW-33A	Shallow Gaspur	11/15/2021	104.96	Dry	Dry
MW-33A	Shallow Gaspur	6/21/2022	104.96	Dry	Dry
MW-33A	Shallow Gaspur	12/22/2022	104.96	Dry	Dry
MW-33A	Shallow Gaspur	5/15/2023	104.96	Dry	Dry
MW-33A	Shallow Gaspur	11/27/2023	104.96	Dry	Dry
MW-33A	Shallow Gaspur	5/3/2024	104.96	Dry	Dry
MW-33A	Shallow Gaspur	11/18/2024	104.96	Dry	Dry
MW-33B	Intermediate Gaspur	6/6/2006	104.72	47.02	57.70
MW-33B	Intermediate Gaspur	8/28/2006	104.72	47.03	57.69
MW-33B	Intermediate Gaspur	3/19/2008	104.72	47.53	57.19
MW-33B	Intermediate Gaspur	4/14/2008	104.72	47.78	56.94
MW-33B	Intermediate Gaspur	5/19/2009	104.72	49.67	55.05
MW-33B	Intermediate Gaspur	7/15/2010	104.72	51.93	52.79
MW-33B	Intermediate Gaspur	6/13/2011	104.72	52.51	52.21
MW-33B	Intermediate Gaspur	12/5/2011	104.72	52.25	52.47
MW-33B	Intermediate Gaspur	6/7/2012	104.72	51.59	53.13
MW-33B	Intermediate Gaspur	6/8/2012	104.72	51.59	53.13
MW-33B	Intermediate Gaspur	12/10/2012	104.72	52.30	52.42
MW-33B	Intermediate Gaspur	6/17/2013	104.72	54.44	50.28
MW-33B	Intermediate Gaspur	12/9/2013	104.72	54.92	49.80
MW-33B	Intermediate Gaspur	6/9/2014	104.72	55.55	49.17
MW-33B	Intermediate Gaspur	12/15/2014	104.72	56.70	48.02
MW-33B	Intermediate Gaspur	6/8/2015	104.72	57.00	47.72
MW-33B	Intermediate Gaspur	12/7/2015	104.72	58.79	45.93
MW-33B	Intermediate Gaspur	6/6/2016	104.72	59.46	45.26
MW-33B	Intermediate Gaspur	11/28/2016	104.72	60.60	44.12
MW-33B	Intermediate Gaspur	6/9/2017	104.72	61.16	43.56

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-33B	Intermediate Gaspur	12/4/2017	104.72	61.61	43.11
MW-33B	Intermediate Gaspur	6/4/2018	104.72	62.67	42.05
MW-33B	Intermediate Gaspur	6/28/2018	104.72	62.42	42.30
MW-33B	Intermediate Gaspur	12/3/2018	104.72	62.97	41.75
MW-33B	Intermediate Gaspur	6/10/2019	104.72	63.51	41.21
MW-33B	Intermediate Gaspur	12/2/2019	104.72	64.00	40.72
MW-33B	Intermediate Gaspur	6/8/2020	104.72	64.47	40.25
MW-33B	Intermediate Gaspur	11/17/2020	104.72	64.80	39.92
MW-33B	Intermediate Gaspur	5/17/2021	104.72	65.15	39.57
MW-33B	Intermediate Gaspur	11/15/2021	104.72	65.58	39.14
MW-33B	Intermediate Gaspur	6/21/2022	104.72	67.83	36.89
MW-33B	Intermediate Gaspur	12/22/2022	104.72	66.30	38.42
MW-33B	Intermediate Gaspur	5/15/2023	104.72	66.24	38.48
MW-33B	Intermediate Gaspur	11/27/2023	104.72	66.12	38.60
MW-33B	Intermediate Gaspur	5/3/2024	104.72	64.92	39.80
MW-33B	Intermediate Gaspur	11/18/2024	104.72	63.70	41.02
MW-34	Shallow Gaspur	3/19/2008	103.24	46.95	56.29
MW-34	Shallow Gaspur	4/14/2008	103.24	46.97	56.27
MW-34	Shallow Gaspur	5/4/2009	103.24	48.86	54.38
MW-34	Shallow Gaspur	5/19/2009	103.24	48.90	54.34
MW-34	Shallow Gaspur	7/15/2010	103.24	51.32	51.92
MW-34	Shallow Gaspur	6/13/2011	103.24	51.88	51.36
MW-34	Shallow Gaspur	12/5/2011	103.24	51.58	51.66
MW-34	Shallow Gaspur	6/7/2012	103.24	50.86	52.38
MW-34	Shallow Gaspur	6/12/2012	103.24	50.86	52.38
MW-34	Shallow Gaspur	12/10/2012	103.24	51.38	51.86
MW-34	Shallow Gaspur	6/17/2013	103.24	52.48	50.76
MW-34	Shallow Gaspur	12/9/2013	103.24	53.27	49.97
MW-34	Shallow Gaspur	3/27/2014	103.24	53.55	49.69
MW-34	Shallow Gaspur	6/9/2014	103.24	54.08	49.16
MW-34	Shallow Gaspur	12/15/2014	103.24	55.40	47.84
MW-34	Shallow Gaspur	6/8/2015	103.24	56.21	47.03
MW-34	Shallow Gaspur	12/7/2015	103.24	57.82	45.42
MW-34	Shallow Gaspur	6/6/2016	103.24	58.35	44.89
MW-34	Shallow Gaspur	11/28/2016	103.24	59.47	43.77
MW-34	Shallow Gaspur	6/9/2017	103.24	60.46	42.78
MW-34	Shallow Gaspur	12/4/2017	103.24	60.83	42.41
MW-34	Shallow Gaspur	6/4/2018	103.24	61.10	42.14
MW-34	Shallow Gaspur	6/28/2018	103.24	61.80	41.44
MW-34	Shallow Gaspur	12/3/2018	103.24	62.37	40.87
MW-34	Shallow Gaspur	6/10/2019	103.24	62.90	40.34
MW-34	Shallow Gaspur	12/2/2019	103.24	63.56	39.68

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-34	Shallow Gaspur	6/8/2020	103.24	63.62	39.62
MW-34	Shallow Gaspur	11/17/2020	103.24	64.08	39.16
MW-34	Shallow Gaspur	5/17/2021	103.24	64.40	38.84
MW-34	Shallow Gaspur	11/15/2021	103.24	64.86	38.38
MW-34	Shallow Gaspur	6/21/2022	103.24	65.00	38.24
MW-34	Shallow Gaspur	12/22/2022	103.24	65.13	38.11
MW-34	Shallow Gaspur	5/15/2023	103.24	65.45	37.79
MW-34	Shallow Gaspur	11/27/2023	103.24	65.31	37.93
MW-34	Shallow Gaspur	5/3/2024	103.24	64.02	39.22
MW-34	Shallow Gaspur	11/18/2024	103.24	62.56	40.68
MW-35	Lower Gaspur	3/19/2008	103.27	47.11	56.16
MW-35	Lower Gaspur	4/14/2008	103.27	47.53	55.74
MW-35	Lower Gaspur	5/4/2009	103.27	49.02	54.25
MW-35	Lower Gaspur	5/19/2009	103.27	49.08	54.19
MW-35	Lower Gaspur	7/15/2010	103.27	51.54	51.73
MW-35	Lower Gaspur	6/13/2011	103.27	52.03	51.24
MW-35	Lower Gaspur	12/5/2011	103.27	51.71	51.56
MW-35	Lower Gaspur	6/7/2012	103.27	51.09	52.18
MW-35	Lower Gaspur	6/8/2012	103.27	51.09	52.18
MW-35	Lower Gaspur	12/10/2012	103.27	51.62	51.65
MW-35	Lower Gaspur	6/17/2013	103.27	52.64	50.63
MW-35	Lower Gaspur	12/9/2013	103.27	53.49	49.78
MW-35	Lower Gaspur	3/27/2014	103.27	53.81	49.46
MW-35	Lower Gaspur	6/9/2014	103.27	54.36	48.91
MW-35	Lower Gaspur	12/15/2014	103.27	55.73	47.54
MW-35	Lower Gaspur	6/8/2015	103.27	56.44	46.83
MW-35	Lower Gaspur	12/7/2015	103.27	58.07	45.20
MW-35	Lower Gaspur	6/6/2016	103.25	67.02	36.23
MW-35	Lower Gaspur	11/28/2016	103.25	60.05	43.20
MW-35	Lower Gaspur	6/9/2017	103.25	60.75	42.50
MW-35	Lower Gaspur	12/4/2017	103.25	61.21	42.04
MW-35	Lower Gaspur	6/4/2018	103.25	61.62	41.63
MW-35	Lower Gaspur	6/28/2018	103.25	61.93	41.32
MW-35	Lower Gaspur	12/3/2018	103.25	62.78	40.47
MW-35	Lower Gaspur	6/10/2019	103.25	62.99	40.26
MW-35	Lower Gaspur	12/2/2019	103.25	63.66	39.59
MW-35	Lower Gaspur	6/8/2020	103.25	63.85	39.40
MW-35	Lower Gaspur	11/17/2020	103.25	64.20	39.05
MW-35	Lower Gaspur	5/17/2021	103.25	64.52	38.73
MW-35	Lower Gaspur	11/15/2021	103.25	64.90	38.35
MW-35	Lower Gaspur	6/21/2022	103.25	65.15	38.10
MW-35	Lower Gaspur	12/22/2022	103.25	65.68	37.57

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-35	Lower Gaspur	5/15/2023	103.25	65.64	37.61
MW-35	Lower Gaspur	11/27/2023	103.25	65.42	37.83
MW-35	Lower Gaspur	5/3/2024	103.25	63.97	39.28
MW-35	Lower Gaspur	11/18/2024	103.25	62.57	40.68
MW-36	Intermediate Gaspur	3/19/2008	102.77	46.76	56.01
MW-36	Intermediate Gaspur	4/14/2008	102.77	46.86	55.91
MW-36	Intermediate Gaspur	5/4/2009	102.77	48.73	54.04
MW-36	Intermediate Gaspur	5/19/2009	102.77	48.72	54.05
MW-36	Intermediate Gaspur	7/15/2010	102.77	51.12	51.65
MW-36	Intermediate Gaspur	6/13/2011	102.77	51.67	51.10
MW-36	Intermediate Gaspur	12/5/2011	102.77	50.95	51.82
MW-36	Intermediate Gaspur	6/7/2012	102.77	50.53	52.24
MW-36	Intermediate Gaspur	6/8/2012	102.77	50.53	52.24
MW-36	Intermediate Gaspur	12/10/2012	102.77	50.98	51.79
MW-36	Intermediate Gaspur	6/17/2013	102.77	52.12	50.65
MW-36	Intermediate Gaspur	12/9/2013	102.77	52.83	49.94
MW-36	Intermediate Gaspur	3/27/2014	102.77	53.30	49.47
MW-36	Intermediate Gaspur	6/10/2014	102.77	53.98	48.79
MW-36	Intermediate Gaspur	12/15/2014	102.77	55.29	47.48
MW-36	Intermediate Gaspur	6/8/2015	102.77	56.23	46.54
MW-36	Intermediate Gaspur	12/7/2015	102.77	57.72	45.05
MW-36	Intermediate Gaspur	6/6/2016	102.73	58.49	44.24
MW-36	Intermediate Gaspur	11/28/2016	102.73	59.59	43.14
MW-36	Intermediate Gaspur	6/7/2017	102.73	60.35	42.38
MW-36	Intermediate Gaspur	12/4/2017	102.73	60.76	41.97
MW-36	Intermediate Gaspur	6/4/2018	102.73	NM	NM
MW-36	Intermediate Gaspur	6/28/2018	102.73	61.52	41.21
MW-36	Intermediate Gaspur	12/3/2018	102.73	62.18	40.55
MW-36	Intermediate Gaspur	6/10/2019	102.73	62.51	40.22
MW-36	Intermediate Gaspur	12/2/2019	102.73	63.01	39.72
MW-36	Intermediate Gaspur	6/8/2020	102.73	63.39	39.34
MW-36	Intermediate Gaspur	11/17/2020	102.73	63.60	39.13
MW-36	Intermediate Gaspur	5/17/2021	102.73	64.10	38.63
MW-36	Intermediate Gaspur	11/15/2021	102.73	64.37	38.36
MW-36	Intermediate Gaspur	6/21/2022	102.73	64.74	37.99
MW-36	Intermediate Gaspur	12/22/2022	102.73	65.13	37.60
MW-36	Intermediate Gaspur	5/15/2023	102.73	65.21	37.52
MW-36	Intermediate Gaspur	11/27/2023	102.73	64.89	37.84
MW-36	Intermediate Gaspur	5/3/2024	102.73	63.54	39.19
MW-36	Intermediate Gaspur	11/18/2024	102.73	61.97	40.76
MW-37	Lower Gaspur	3/19/2008	102.54	46.88	55.66
MW-37	Lower Gaspur	4/14/2008	102.54	47.00	55.54

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-37	Lower Gaspur	5/4/2009	102.54	48.83	53.71
MW-37	Lower Gaspur	5/19/2009	102.54	48.84	53.70
MW-37	Lower Gaspur	7/15/2010	102.54	51.18	51.36
MW-37	Lower Gaspur	6/13/2011	102.54	51.78	50.76
MW-37	Lower Gaspur	12/5/2011	102.54	51.17	51.37
MW-37	Lower Gaspur	6/7/2012	102.54	50.62	51.92
MW-37	Lower Gaspur	6/12/2012	102.54	50.62	51.92
MW-37	Lower Gaspur	12/10/2012	102.54	51.25	51.29
MW-37	Lower Gaspur	6/17/2013	102.54	52.49	50.05
MW-37	Lower Gaspur	12/9/2013	102.54	52.91	49.63
MW-37	Lower Gaspur	3/27/2014	102.54	53.40	49.14
MW-37	Lower Gaspur	6/10/2014	102.54	53.93	48.61
MW-37	Lower Gaspur	12/15/2014	102.54	55.32	47.22
MW-37	Lower Gaspur	6/8/2015	102.54	56.20	46.34
MW-37	Lower Gaspur	12/7/2015	102.54	57.80	44.74
MW-37	Lower Gaspur	6/6/2016	102.50	58.53	43.97
MW-37	Lower Gaspur	11/28/2016	102.50	59.66	42.84
MW-37	Lower Gaspur	6/7/2017	102.50	60.42	42.08
MW-37	Lower Gaspur	12/4/2017	102.50	60.80	41.70
MW-37	Lower Gaspur	6/4/2018	102.50	61.40	41.10
MW-37	Lower Gaspur	6/28/2018	102.50	61.58	40.92
MW-37	Lower Gaspur	12/3/2018	102.50	62.22	40.28
MW-37	Lower Gaspur	6/10/2019	102.50	62.51	39.99
MW-37	Lower Gaspur	12/2/2019	102.50	63.27	39.23
MW-37	Lower Gaspur	6/8/2020	102.50	63.48	39.02
MW-37	Lower Gaspur	11/17/2020	102.50	63.75	38.75
MW-37	Lower Gaspur	5/17/2021	102.50	64.15	38.35
MW-37	Lower Gaspur	11/15/2021	102.50	64.57	37.93
MW-37	Lower Gaspur	6/21/2022	102.50	64.68	37.82
MW-37	Lower Gaspur	12/22/2022	102.50	65.24	37.26
MW-37	Lower Gaspur	5/15/2023	102.50	65.17	37.33
MW-37	Lower Gaspur	11/27/2023	102.50	64.91	37.59
MW-37	Lower Gaspur	5/3/2024	102.50	63.33	39.17
MW-37	Lower Gaspur	11/18/2024	102.50	61.66	40.84
MW-38	Shallow Gaspur	3/19/2008	102.30	46.34	55.96
MW-38	Shallow Gaspur	4/14/2008	102.30	46.37	55.93
MW-38	Shallow Gaspur	5/4/2009	102.30	48.20	54.10
MW-38	Shallow Gaspur	5/19/2009	102.30	48.27	54.03
MW-38	Shallow Gaspur	7/15/2010	102.30	50.68	51.62
MW-38	Shallow Gaspur	6/13/2011	102.30	51.25	51.05
MW-38	Shallow Gaspur	12/5/2011	102.30	50.78	51.52
MW-38	Shallow Gaspur	6/7/2012	102.30	50.22	52.08

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-38	Shallow Gaspur	6/8/2012	102.30	50.22	52.08
MW-38	Shallow Gaspur	12/10/2012	102.30	50.79	51.51
MW-38	Shallow Gaspur	6/17/2013	102.30	51.80	50.50
MW-38	Shallow Gaspur	12/9/2013	102.30	52.29	50.01
MW-38	Shallow Gaspur	3/27/2014	102.30	52.89	49.41
MW-38	Shallow Gaspur	6/9/2014	102.30	53.46	48.84
MW-38	Shallow Gaspur	12/15/2014	102.30	54.78	47.52
MW-38	Shallow Gaspur	6/8/2015	102.30	55.66	46.64
MW-38	Shallow Gaspur	12/7/2015	102.30	57.01	45.29
MW-38	Shallow Gaspur	6/6/2016	102.28	57.80	44.48
MW-38	Shallow Gaspur	11/28/2016	102.28	58.85	43.43
MW-38	Shallow Gaspur	6/7/2017	102.28	59.70	42.58
MW-38	Shallow Gaspur	12/4/2017	102.28	60.26	42.02
MW-38	Shallow Gaspur	6/4/2018	102.28	60.69	41.59
MW-38	Shallow Gaspur	6/28/2018	102.28	60.85	41.43
MW-38	Shallow Gaspur	12/3/2018	102.28	61.60	40.68
MW-38	Shallow Gaspur	6/10/2019	102.28	61.88	40.40
MW-38	Shallow Gaspur	12/2/2019	102.28	62.83	39.45
MW-38	Shallow Gaspur	6/8/2020	102.28	62.98	39.30
MW-38	Shallow Gaspur	11/17/2020	102.28	63.18	39.10
MW-38	Shallow Gaspur	5/17/2021	102.28	63.75	38.53
MW-38	Shallow Gaspur	11/15/2021	102.28	64.14	38.14
MW-38	Shallow Gaspur	6/21/2022	102.28	64.24	38.04
MW-38	Shallow Gaspur	12/22/2022	102.28	64.78	37.50
MW-38	Shallow Gaspur	5/15/2023	102.28	64.81	37.47
MW-38	Shallow Gaspur	11/27/2023	102.28	64.65	37.63
MW-38	Shallow Gaspur	5/3/2024	102.28	61.40	40.88
MW-38	Shallow Gaspur	11/18/2024	102.28	61.72	40.56
MW-39	Intermediate Gaspur	3/19/2008	102.37	NM	NM
MW-39	Intermediate Gaspur	4/14/2008	102.37	49.47	52.90
MW-39	Intermediate Gaspur	5/4/2009	102.37	48.39	53.98
MW-39	Intermediate Gaspur	5/19/2009	102.37	48.40	53.97
MW-39	Intermediate Gaspur	7/15/2010	102.37	50.77	51.60
MW-39	Intermediate Gaspur	6/13/2011	102.37	51.39	50.98
MW-39	Intermediate Gaspur	12/5/2011	102.37	50.92	51.45
MW-39	Intermediate Gaspur	6/7/2012	102.37	50.23	52.14
MW-39	Intermediate Gaspur	6/12/2012	102.37	50.23	52.14
MW-39	Intermediate Gaspur	12/10/2012	102.37	50.88	51.49
MW-39	Intermediate Gaspur	6/17/2013	102.37	51.96	50.41
MW-39	Intermediate Gaspur	12/9/2013	102.37	52.66	49.71
MW-39	Intermediate Gaspur	3/27/2014	102.37	52.99	49.38
MW-39	Intermediate Gaspur	6/9/2014	102.37	53.64	48.73

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-39	Intermediate Gaspur	12/15/2014	102.37	54.99	47.38
MW-39	Intermediate Gaspur	6/8/2015	102.37	55.84	46.53
MW-39	Intermediate Gaspur	12/7/2015	102.37	57.38	44.99
MW-39	Intermediate Gaspur	6/6/2016	102.34	58.20	44.14
MW-39	Intermediate Gaspur	11/28/2016	102.34	59.32	43.02
MW-39	Intermediate Gaspur	6/7/2017	102.34	60.03	42.31
MW-39	Intermediate Gaspur	12/4/2017	102.34	60.53	41.81
MW-39	Intermediate Gaspur	6/4/2018	102.34	61.00	41.34
MW-39	Intermediate Gaspur	6/28/2018	102.34	61.24	41.10
MW-39	Intermediate Gaspur	12/3/2018	102.34	61.85	40.49
MW-39	Intermediate Gaspur	6/10/2019	102.34	62.26	40.08
MW-39	Intermediate Gaspur	12/2/2019	102.34	62.96	39.38
MW-39	Intermediate Gaspur	6/8/2020	102.34	63.22	39.12
MW-39	Intermediate Gaspur	11/17/2020	102.34	63.40	38.94
MW-39	Intermediate Gaspur	5/17/2021	102.34	64.11	38.23
MW-39	Intermediate Gaspur	11/15/2021	102.34	64.18	38.16
MW-39	Intermediate Gaspur	6/21/2022	102.34	64.41	37.93
MW-39	Intermediate Gaspur	12/22/2022	102.34	64.72	37.62
MW-39	Intermediate Gaspur	5/15/2023	102.34	64.88	37.46
MW-39	Intermediate Gaspur	11/27/2023	102.34	64.60	37.74
MW-39	Intermediate Gaspur	5/3/2024	102.34	63.20	39.14
MW-39	Intermediate Gaspur	11/18/2024	102.34	61.61	40.73
MW-40	Lower Gaspur	3/19/2008	102.10	46.26	55.84
MW-40	Lower Gaspur	4/14/2008	102.10	46.42	55.68
MW-40	Lower Gaspur	5/4/2009	102.10	48.26	53.84
MW-40	Lower Gaspur	5/19/2009	102.10	48.28	53.82
MW-40	Lower Gaspur	7/15/2010	102.10	50.64	51.46
MW-40	Lower Gaspur	6/13/2011	102.10	51.30	50.80
MW-40	Lower Gaspur	12/5/2011	102.10	50.72	51.38
MW-40	Lower Gaspur	6/7/2012	102.10	50.25	51.85
MW-40	Lower Gaspur	6/8/2012	102.10	50.25	51.85
MW-40	Lower Gaspur	12/10/2012	102.10	50.58	51.52
MW-40	Lower Gaspur	6/17/2013	102.10	51.42	50.68
MW-40	Lower Gaspur	12/9/2013	102.10	52.49	49.61
MW-40	Lower Gaspur	3/27/2014	102.10	52.81	49.29
MW-40	Lower Gaspur	6/9/2014	102.10	53.52	48.58
MW-40	Lower Gaspur	12/15/2014	102.10	54.91	47.19
MW-40	Lower Gaspur	6/8/2015	102.10	55.75	46.35
MW-40	Lower Gaspur	12/7/2015	102.10	57.14	44.96
MW-40	Lower Gaspur	6/6/2016	102.06	58.44	43.62
MW-40	Lower Gaspur	11/28/2016	102.06	59.15	42.91
MW-40	Lower Gaspur	6/7/2017	102.06	59.75	42.31

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-40	Lower Gaspur	12/4/2017	102.06	60.32	41.74
MW-40	Lower Gaspur	6/4/2018	102.06	60.73	41.33
MW-40	Lower Gaspur	6/28/2018	102.06	61.08	40.98
MW-40	Lower Gaspur	12/3/2018	102.06	61.77	40.29
MW-40	Lower Gaspur	6/10/2019	102.06	62.18	39.88
MW-40	Lower Gaspur	12/2/2019	102.06	62.81	39.25
MW-40	Lower Gaspur	6/8/2020	102.06	63.04	39.02
MW-40	Lower Gaspur	11/17/2020	102.06	63.14	38.92
MW-40	Lower Gaspur	5/17/2021	102.06	63.88	38.18
MW-40	Lower Gaspur	11/15/2021	102.06	64.02	38.04
MW-40	Lower Gaspur	6/21/2022	102.06	64.22	37.84
MW-40	Lower Gaspur	12/22/2022	102.06	64.75	37.31
MW-40	Lower Gaspur	5/15/2023	102.06	64.69	37.37
MW-40	Lower Gaspur	11/27/2023	102.06	64.45	37.61
MW-40	Lower Gaspur	5/3/2024	102.06	63.00	39.06
MW-40	Lower Gaspur	11/18/2024	102.06	61.36	40.70
MW-41	Lower Gaspur	3/19/2008	104.37	48.01	56.36
MW-41	Lower Gaspur	4/14/2008	104.37	48.08	56.29
MW-41	Lower Gaspur	5/4/2009	104.37	49.92	54.45
MW-41	Lower Gaspur	5/19/2009	104.37	49.97	54.40
MW-41	Lower Gaspur	7/15/2010	104.37	52.37	52.00
MW-41	Lower Gaspur	6/13/2011	104.37	52.93	51.44
MW-41	Lower Gaspur	12/5/2011	104.37	52.63	51.74
MW-41	Lower Gaspur	6/7/2012	104.37	51.85	52.52
MW-41	Lower Gaspur	6/13/2012	104.37	51.85	52.52
MW-41	Lower Gaspur	12/10/2012	104.37	52.42	51.95
MW-41	Lower Gaspur	6/17/2013	104.37	53.53	50.84
MW-41	Lower Gaspur	12/9/2013	104.37	54.40	49.97
MW-41	Lower Gaspur	3/27/2014	104.37	54.67	49.70
MW-41	Lower Gaspur	6/11/2014	104.37	55.30	49.07
MW-41	Lower Gaspur	12/15/2014	104.37	56.55	47.82
MW-41	Lower Gaspur	6/8/2015	104.37	57.50	46.87
MW-41	Lower Gaspur	12/7/2015	104.37	59.15	45.22
MW-41	Lower Gaspur	6/6/2016	104.34	59.78	44.56
MW-41	Lower Gaspur	12/1/2016	104.34	60.93	43.41
MW-41	Lower Gaspur	6/7/2017	104.34	61.67	42.67
MW-41	Lower Gaspur	12/4/2017	104.34	62.14	42.20
MW-41	Lower Gaspur	6/4/2018	104.34	62.73	41.61
MW-41	Lower Gaspur	6/28/2018	104.34	62.85	41.49
MW-41	Lower Gaspur	12/3/2018	104.34	63.34	41.00
MW-41	Lower Gaspur	6/10/2019	104.34	63.94	40.40
MW-41	Lower Gaspur	12/2/2019	104.34	64.58	39.76

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-41	Lower Gaspur	6/8/2020	104.34	64.70	39.64
MW-41	Lower Gaspur	11/17/2020	104.34	65.08	39.26
MW-41	Lower Gaspur	5/17/2021	104.34	65.53	38.81
MW-41	Lower Gaspur	11/15/2021	104.34	65.81	38.53
MW-41	Lower Gaspur	6/21/2022	104.34	65.95	38.39
MW-41	Lower Gaspur	12/22/2022	104.34	66.48	37.86
MW-41	Lower Gaspur	5/15/2023	104.34	66.69	37.65
MW-41	Lower Gaspur	11/27/2023	104.34	65.73	38.61
MW-41	Lower Gaspur	5/3/2024	104.34	64.98	39.36
MW-41	Lower Gaspur	11/18/2024	104.34	63.61	40.73
MW-42	Shallow Gaspur	5/4/2009	104.40	49.78	54.62
MW-42	Shallow Gaspur	5/19/2009	104.40	49.97	54.43
MW-42	Shallow Gaspur	7/15/2010	104.40	52.34	52.06
MW-42	Shallow Gaspur	6/13/2011	104.40	52.80	51.60
MW-42	Shallow Gaspur	12/5/2011	104.40	52.46	51.94
MW-42	Shallow Gaspur	6/7/2012	104.40	51.71	52.69
MW-42	Shallow Gaspur	12/10/2012	104.40	52.32	52.08
MW-42	Shallow Gaspur	6/17/2013	104.40	53.54	50.86
MW-42	Shallow Gaspur	12/9/2013	104.40	53.74	50.66
MW-42	Shallow Gaspur	3/27/2014	104.40	54.40	50.00
MW-42	Shallow Gaspur	6/9/2014	104.40	55.08	49.32
MW-42	Shallow Gaspur	12/15/2014	104.40	56.40	48.00
MW-42	Shallow Gaspur	6/8/2015	104.40	57.14	47.26
MW-42	Shallow Gaspur	12/7/2015	104.40	58.58	45.82
MW-42	Shallow Gaspur	6/6/2016	104.36	59.62	44.74
MW-42	Shallow Gaspur	11/28/2016	104.36	60.67	43.69
MW-42	Shallow Gaspur	6/5/2017	104.36	61.50	42.86
MW-42	Shallow Gaspur	12/4/2017	104.36	61.95	42.41
MW-42	Shallow Gaspur	6/4/2018	104.36	NM	NM
MW-42	Shallow Gaspur	6/28/2018	104.36	62.70	41.66
MW-42	Shallow Gaspur	12/3/2018	104.36	62.23	42.13
MW-42	Shallow Gaspur	6/10/2019	104.36	63.78	40.58
MW-42	Shallow Gaspur	12/2/2019	104.36	64.28	40.08
MW-42	Shallow Gaspur	6/8/2020	104.36	64.34	40.02
MW-42	Shallow Gaspur	11/17/2020	104.36	64.95	39.41
MW-42	Shallow Gaspur	5/17/2021	104.36	Dry	Dry
MW-42	Shallow Gaspur	11/15/2021	104.36	Dry	Dry
MW-42	Shallow Gaspur	6/21/2022	104.36	Dry	Dry
MW-42	Shallow Gaspur	12/22/2022	104.36	Dry	Dry
MW-42	Shallow Gaspur	5/15/2023	104.36	Dry	Dry
MW-42	Shallow Gaspur	11/27/2023	104.36	Dry	Dry
MW-42	Shallow Gaspur	5/3/2024	104.36	64.95	39.41

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-42	Shallow Gaspur	11/18/2024	104.36	63.61	40.75
MW-43	Intermediate Gaspur	5/4/2009	104.27	49.73	54.54
MW-43	Intermediate Gaspur	5/19/2009	104.27	49.72	54.55
MW-43	Intermediate Gaspur	7/15/2010	104.27	52.08	52.19
MW-43	Intermediate Gaspur	6/13/2011	104.27	52.71	51.56
MW-43	Intermediate Gaspur	12/5/2011	104.27	52.47	51.80
MW-43	Intermediate Gaspur	6/7/2012	104.27	51.64	52.63
MW-43	Intermediate Gaspur	12/10/2012	104.27	52.22	52.05
MW-43	Intermediate Gaspur	6/17/2013	104.27	53.35	50.92
MW-43	Intermediate Gaspur	12/9/2013	104.27	53.66	50.61
MW-43	Intermediate Gaspur	3/27/2014	104.27	54.30	49.97
MW-43	Intermediate Gaspur	6/9/2014	104.27	54.95	49.32
MW-43	Intermediate Gaspur	12/15/2014	104.27	56.28	47.99
MW-43	Intermediate Gaspur	6/8/2015	104.27	57.02	47.25
MW-43	Intermediate Gaspur	12/7/2015	104.27	58.60	45.67
MW-43	Intermediate Gaspur	6/6/2016	104.25	59.46	44.79
MW-43	Intermediate Gaspur	11/28/2016	104.25	60.57	43.68
MW-43	Intermediate Gaspur	6/5/2017	104.25	61.32	42.93
MW-43	Intermediate Gaspur	12/4/2017	104.25	61.84	42.41
MW-43	Intermediate Gaspur	6/4/2018	104.25	NM	NM
MW-43	Intermediate Gaspur	6/28/2018	104.25	62.53	41.72
MW-43	Intermediate Gaspur	12/3/2018	104.25	63.08	41.17
MW-43	Intermediate Gaspur	6/10/2019	104.25	63.61	40.64
MW-43	Intermediate Gaspur	12/2/2019	104.25	64.12	40.13
MW-43	Intermediate Gaspur	6/8/2020	104.25	64.56	39.69
MW-43	Intermediate Gaspur	11/17/2020	104.25	64.82	39.43
MW-43	Intermediate Gaspur	5/17/2021	104.25	65.32	38.93
MW-43	Intermediate Gaspur	11/15/2021	104.25	65.62	38.63
MW-43	Intermediate Gaspur	6/21/2022	104.25	65.89	38.36
MW-43	Intermediate Gaspur	12/22/2022	104.25	66.23	38.02
MW-43	Intermediate Gaspur	5/15/2023	104.25	66.39	37.86
MW-43	Intermediate Gaspur	11/27/2023	104.25	66.04	38.21
MW-43	Intermediate Gaspur	5/3/2024	104.25	64.83	39.42
MW-43	Intermediate Gaspur	11/18/2024	104.25	63.41	40.84
MW-44	Lower Gaspur	5/4/2009	104.22	49.74	54.48
MW-44	Lower Gaspur	5/19/2009	104.22	49.75	54.47
MW-44	Lower Gaspur	7/15/2010	104.22	52.10	52.12
MW-44	Lower Gaspur	6/13/2011	104.22	52.73	51.49
MW-44	Lower Gaspur	12/5/2011	104.22	52.44	51.78
MW-44	Lower Gaspur	6/7/2012	104.22	51.71	52.51
MW-44	Lower Gaspur	12/10/2012	104.22	52.28	51.94
MW-44	Lower Gaspur	6/17/2013	104.22	53.51	50.71

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-44	Lower Gaspur	12/9/2013	104.22	53.78	50.44
MW-44	Lower Gaspur	3/27/2014	104.22	54.30	49.92
MW-44	Lower Gaspur	6/9/2014	104.22	55.00	49.22
MW-44	Lower Gaspur	12/15/2014	104.22	56.30	47.92
MW-44	Lower Gaspur	6/8/2015	104.22	57.28	46.94
MW-44	Lower Gaspur	12/7/2015	104.22	58.62	45.60
MW-44	Lower Gaspur	6/6/2016	104.17	59.45	44.72
MW-44	Lower Gaspur	11/28/2016	104.17	60.52	43.65
MW-44	Lower Gaspur	6/5/2017	104.17	61.37	42.80
MW-44	Lower Gaspur	12/4/2017	104.17	61.69	42.48
MW-44	Lower Gaspur	6/4/2018	104.17	61.69	42.48
MW-44	Lower Gaspur	6/28/2018	104.17	62.41	41.76
MW-44	Lower Gaspur	12/3/2018	104.17	62.92	41.25
MW-44	Lower Gaspur	6/10/2019	104.17	63.44	40.73
MW-44	Lower Gaspur	12/2/2019	104.17	63.95	40.22
MW-44	Lower Gaspur	6/8/2020	104.17	64.44	39.73
MW-44	Lower Gaspur	11/17/2020	104.17	64.65	39.52
MW-44	Lower Gaspur	5/17/2021	104.17	65.16	39.01
MW-44	Lower Gaspur	11/15/2021	104.17	65.51	38.66
MW-44	Lower Gaspur	6/21/2022	104.17	65.85	38.32
MW-44	Lower Gaspur	12/22/2022	104.17	66.05	38.12
MW-44	Lower Gaspur	5/15/2023	104.17	66.20	37.97
MW-44	Lower Gaspur	11/27/2023	104.17	65.90	38.27
MW-44	Lower Gaspur	5/3/2024	104.17	64.68	39.49
MW-44	Lower Gaspur	11/18/2024	104.17	63.31	40.86
MW-45	Intermediate Gaspur	5/4/2009	102.49	48.33	54.16
MW-45	Intermediate Gaspur	5/19/2009	102.49	48.32	54.17
MW-45	Intermediate Gaspur	7/15/2010	102.49	50.74	51.75
MW-45	Intermediate Gaspur	6/13/2011	102.49	51.40	51.09
MW-45	Intermediate Gaspur	12/5/2011	102.49	50.88	51.61
MW-45	Intermediate Gaspur	6/7/2012	102.49	50.24	52.25
MW-45	Intermediate Gaspur	12/10/2012	102.49	50.85	51.64
MW-45	Intermediate Gaspur	6/17/2013	102.49	51.84	50.65
MW-45	Intermediate Gaspur	12/9/2013	102.49	52.63	49.86
MW-45	Intermediate Gaspur	3/27/2014	102.49	53.00	49.49
MW-45	Intermediate Gaspur	6/9/2014	102.49	53.45	49.04
MW-45	Intermediate Gaspur	12/15/2014	102.49	54.94	47.55
MW-45	Intermediate Gaspur	6/8/2015	102.49	55.79	46.70
MW-45	Intermediate Gaspur	12/7/2015	102.49	57.30	45.19
MW-45	Intermediate Gaspur	6/6/2016	102.47	58.16	44.31
MW-45	Intermediate Gaspur	11/28/2016	102.47	59.32	43.15
MW-45	Intermediate Gaspur	6/5/2017	102.47	NM	NM

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-45	Intermediate Gaspur	12/4/2017	102.47	NM	NM
MW-45	Intermediate Gaspur	6/4/2018	102.47	NM	NM
MW-45	Intermediate Gaspur	6/28/2018	102.47	61.23	41.24
MW-45	Intermediate Gaspur	12/3/2018	102.47	61.85	40.62
MW-45	Intermediate Gaspur	6/10/2019	102.47	62.26	40.21
MW-45	Intermediate Gaspur	12/2/2019	102.47	62.99	39.48
MW-45	Intermediate Gaspur	6/8/2020	102.47	63.33	39.14
MW-45	Intermediate Gaspur	11/17/2020	102.47	63.41	39.06
MW-45	Intermediate Gaspur	5/18/2021	102.47	63.67	38.80
MW-45	Intermediate Gaspur	11/15/2021	102.47	64.23	38.24
MW-45	Intermediate Gaspur	6/21/2022	102.47	64.50	37.97
MW-45	Intermediate Gaspur	12/22/2022	102.47	64.89	37.58
MW-45	Intermediate Gaspur	5/15/2023	102.47	64.95	37.52
MW-45	Intermediate Gaspur	11/27/2023	102.47	64.73	37.74
MW-45	Intermediate Gaspur	5/3/2024	102.47	63.28	39.19
MW-45	Intermediate Gaspur	11/18/2024	102.47	61.78	40.69
MW-46	Shallow Gaspur	5/4/2009	101.88	47.90	53.98
MW-46	Shallow Gaspur	5/19/2009	101.88	47.90	53.98
MW-46	Shallow Gaspur	7/15/2010	101.88	50.33	51.55
MW-46	Shallow Gaspur	6/13/2011	101.88	50.92	50.96
MW-46	Shallow Gaspur	12/5/2011	101.88	50.40	51.48
MW-46	Shallow Gaspur	6/7/2012	101.88	49.82	52.06
MW-46	Shallow Gaspur	12/10/2012	101.88	50.38	51.50
MW-46	Shallow Gaspur	6/17/2013	101.88	51.50	50.38
MW-46	Shallow Gaspur	12/9/2013	101.88	52.69	49.19
MW-46	Shallow Gaspur	3/27/2014	101.88	52.50	49.38
MW-46	Shallow Gaspur	6/9/2014	101.88	53.07	48.81
MW-46	Shallow Gaspur	12/15/2014	101.88	54.54	47.34
MW-46	Shallow Gaspur	6/8/2015	101.88	55.41	46.47
MW-46	Shallow Gaspur	12/7/2015	101.88	56.86	45.02
MW-46	Shallow Gaspur	6/6/2016	101.87	57.63	44.24
MW-46	Shallow Gaspur	11/28/2016	101.87	58.85	43.02
MW-46	Shallow Gaspur	6/5/2017	101.87	59.85	42.02
MW-46	Shallow Gaspur	12/4/2017	101.87	59.12	42.75
MW-46	Shallow Gaspur	6/4/2018	101.87	NM	NM
MW-46	Shallow Gaspur	6/28/2018	101.87	60.64	41.23
MW-46	Shallow Gaspur	12/3/2018	101.87	61.42	40.45
MW-46	Shallow Gaspur	6/10/2019	101.87	61.87	40.00
MW-46	Shallow Gaspur	12/2/2019	101.87	62.56	39.31
MW-46	Shallow Gaspur	6/8/2020	101.87	62.75	39.12
MW-46	Shallow Gaspur	11/17/2020	101.87	62.86	39.01
MW-46	Shallow Gaspur	5/17/2021	101.87	63.94	37.93

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-46	Shallow Gaspur	11/15/2021	101.87	63.74	38.13
MW-46	Shallow Gaspur	6/21/2022	101.87	NM	NM
MW-46	Shallow Gaspur	12/22/2022	101.87	NM	NM
MW-46	Shallow Gaspur	5/15/2023	101.87	64.46	37.41
MW-46	Shallow Gaspur	11/27/2023	101.87	64.40	37.47
MW-46	Shallow Gaspur	5/3/2024	101.87	62.74	39.13
MW-46	Shallow Gaspur	11/18/2024	101.87	61.14	40.73
MW-47	Intermediate Gaspur	5/4/2009	101.78	47.80	53.98
MW-47	Intermediate Gaspur	5/19/2009	101.78	47.80	53.98
MW-47	Intermediate Gaspur	7/15/2010	101.78	50.22	51.56
MW-47	Intermediate Gaspur	6/13/2011	101.78	50.81	50.97
MW-47	Intermediate Gaspur	12/5/2011	101.78	50.31	51.47
MW-47	Intermediate Gaspur	6/7/2012	101.78	49.62	52.16
MW-47	Intermediate Gaspur	12/10/2012	101.78	50.32	51.46
MW-47	Intermediate Gaspur	6/17/2013	101.78	51.35	50.43
MW-47	Intermediate Gaspur	12/9/2013	101.78	52.82	48.96
MW-47	Intermediate Gaspur	3/27/2014	101.78	52.36	49.42
MW-47	Intermediate Gaspur	6/9/2014	101.78	53.01	48.77
MW-47	Intermediate Gaspur	12/15/2014	101.78	54.40	47.38
MW-47	Intermediate Gaspur	6/8/2015	101.78	55.30	46.48
MW-47	Intermediate Gaspur	12/7/2015	101.78	56.77	45.01
MW-47	Intermediate Gaspur	6/6/2016	101.74	57.63	44.11
MW-47	Intermediate Gaspur	11/28/2016	101.74	58.73	43.01
MW-47	Intermediate Gaspur	6/5/2017	101.74	59.60	42.14
MW-47	Intermediate Gaspur	12/4/2017	101.74	60.02	41.72
MW-47	Intermediate Gaspur	6/4/2018	101.74	NM	NM
MW-47	Intermediate Gaspur	6/28/2018	101.74	60.60	41.14
MW-47	Intermediate Gaspur	12/3/2018	101.74	61.30	40.44
MW-47	Intermediate Gaspur	6/10/2019	101.74	61.77	39.97
MW-47	Intermediate Gaspur	12/2/2019	101.74	62.43	39.31
MW-47	Intermediate Gaspur	6/8/2020	101.74	62.72	39.02
MW-47	Intermediate Gaspur	11/17/2020	101.74	62.88	38.86
MW-47	Intermediate Gaspur	5/17/2021	101.74	63.28	38.46
MW-47	Intermediate Gaspur	11/15/2021	101.74	63.62	38.12
MW-47	Intermediate Gaspur	6/21/2022	101.74	NM	NM
MW-47	Intermediate Gaspur	12/22/2022	101.74	NM	NM
MW-47	Intermediate Gaspur	5/15/2023	101.74	64.47	37.27
MW-47	Intermediate Gaspur	11/27/2023	101.74	64.09	37.65
MW-47	Intermediate Gaspur	5/3/2024	101.74	62.67	39.07
MW-47	Intermediate Gaspur	11/18/2024	101.74	61.07	40.67
MW-48	Lower Gaspur	5/4/2009	101.72	47.75	53.97
MW-48	Lower Gaspur	5/19/2009	101.72	47.75	53.97

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-48	Lower Gaspur	7/15/2010	101.72	50.19	51.53
MW-48	Lower Gaspur	6/13/2011	101.72	50.71	51.01
MW-48	Lower Gaspur	12/5/2011	101.72	50.32	51.40
MW-48	Lower Gaspur	6/7/2012	101.72	49.62	52.10
MW-48	Lower Gaspur	12/10/2012	101.72	50.18	51.54
MW-48	Lower Gaspur	6/17/2013	101.72	51.54	50.18
MW-48	Lower Gaspur	12/9/2013	101.72	52.64	49.08
MW-48	Lower Gaspur	3/27/2014	101.72	52.35	49.37
MW-48	Lower Gaspur	6/9/2014	101.72	53.09	48.63
MW-48	Lower Gaspur	12/15/2014	101.72	54.38	47.34
MW-48	Lower Gaspur	6/8/2015	101.72	55.24	46.48
MW-48	Lower Gaspur	12/7/2015	101.72	56.72	45.00
MW-48	Lower Gaspur	6/6/2016	101.68	57.53	44.15
MW-48	Lower Gaspur	11/28/2016	101.68	58.66	43.02
MW-48	Lower Gaspur	6/5/2017	101.68	59.60	42.08
MW-48	Lower Gaspur	12/4/2017	101.68	60.08	41.60
MW-48	Lower Gaspur	6/4/2018	101.68	NM	NM
MW-48	Lower Gaspur	6/28/2018	101.68	60.50	41.18
MW-48	Lower Gaspur	12/3/2018	101.68	61.22	40.46
MW-48	Lower Gaspur	6/10/2019	101.68	61.63	40.05
MW-48	Lower Gaspur	12/2/2019	101.68	62.29	39.39
MW-48	Lower Gaspur	6/8/2020	101.68	62.59	39.09
MW-48	Lower Gaspur	11/17/2020	101.68	62.74	38.94
MW-48	Lower Gaspur	5/17/2021	101.68	63.21	38.47
MW-48	Lower Gaspur	11/15/2021	101.68	63.59	38.09
MW-48	Lower Gaspur	6/21/2022	101.68	NM	NM
MW-48	Lower Gaspur	12/22/2022	101.68	NM	NM
MW-48	Lower Gaspur	5/15/2023	101.68	64.38	37.30
MW-48	Lower Gaspur	11/27/2023	101.68	64.06	37.62
MW-48	Lower Gaspur	5/3/2024	101.68	62.50	39.18
MW-48	Lower Gaspur	11/18/2024	101.68	60.95	40.73
MW-49	Shallow Gaspur	5/4/2009	100.68	47.06	53.62
MW-49	Shallow Gaspur	5/19/2009	100.68	47.09	53.59
MW-49	Shallow Gaspur	7/15/2010	100.68	49.50	51.18
MW-49	Shallow Gaspur	6/13/2011	100.68	50.04	50.64
MW-49	Shallow Gaspur	12/5/2011	100.68	49.64	51.04
MW-49	Shallow Gaspur	6/7/2012	100.68	48.99	51.69
MW-49	Shallow Gaspur	12/10/2012	100.68	49.49	51.19
MW-49	Shallow Gaspur	6/17/2013	100.68	50.38	50.30
MW-49	Shallow Gaspur	12/9/2013	100.68	50.78	49.90
MW-49	Shallow Gaspur	3/27/2014	100.68	51.65	49.03
MW-49	Shallow Gaspur	6/9/2014	100.68	52.20	48.48

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-49	Shallow Gaspur	12/15/2014	100.68	53.68	47.00
MW-49	Shallow Gaspur	6/8/2015	100.68	54.57	46.11
MW-49	Shallow Gaspur	12/7/2015	100.68	56.10	44.58
MW-49	Shallow Gaspur	6/6/2016	100.53	56.87	43.66
MW-49	Shallow Gaspur	11/28/2016	100.53	58.04	42.49
MW-49	Shallow Gaspur	6/5/2017	100.53	58.60	41.93
MW-49	Shallow Gaspur	12/4/2017	100.53	59.06	41.47
MW-49	Shallow Gaspur	6/4/2018	100.53	NM	NM
MW-49	Shallow Gaspur	6/28/2018	100.53	59.81	40.72
MW-49	Shallow Gaspur	12/3/2018	100.53	60.57	39.96
MW-49	Shallow Gaspur	6/10/2019	100.53	60.93	39.60
MW-49	Shallow Gaspur	12/2/2019	100.53	61.66	38.87
MW-49	Shallow Gaspur	6/8/2020	100.53	61.77	38.76
MW-49	Shallow Gaspur	11/17/2020	100.53	61.92	38.61
MW-49	Shallow Gaspur	5/17/2021	100.53	62.46	38.07
MW-49	Shallow Gaspur	11/15/2021	100.53	62.80	37.73
MW-49	Shallow Gaspur	6/21/2022	100.53	62.96	37.57
MW-49	Shallow Gaspur	12/22/2022	100.53	63.49	37.04
MW-49	Shallow Gaspur	5/15/2023	100.53	63.58	36.95
MW-49	Shallow Gaspur	11/27/2023	100.53	63.29	37.24
MW-49	Shallow Gaspur	5/3/2024	100.53	61.67	38.86
MW-49	Shallow Gaspur	11/18/2024	100.53	59.96	40.57
MW-50	Intermediate Gaspur	5/4/2009	100.68	47.20	53.48
MW-50	Intermediate Gaspur	5/19/2009	100.68	47.22	53.46
MW-50	Intermediate Gaspur	7/15/2010	100.68	49.64	51.04
MW-50	Intermediate Gaspur	6/13/2011	100.68	50.20	50.48
MW-50	Intermediate Gaspur	12/5/2011	100.68	49.75	50.93
MW-50	Intermediate Gaspur	6/7/2012	100.68	49.12	51.56
MW-50	Intermediate Gaspur	12/10/2012	100.68	49.58	51.10
MW-50	Intermediate Gaspur	6/17/2013	100.68	50.41	50.27
MW-50	Intermediate Gaspur	12/9/2013	100.68	50.92	49.76
MW-50	Intermediate Gaspur	3/27/2014	100.68	51.77	48.91
MW-50	Intermediate Gaspur	6/9/2014	100.68	52.39	48.29
MW-50	Intermediate Gaspur	12/15/2014	100.68	53.81	46.87
MW-50	Intermediate Gaspur	6/8/2015	100.68	54.70	45.98
MW-50	Intermediate Gaspur	12/7/2015	100.68	56.24	44.44
MW-50	Intermediate Gaspur	6/6/2016	100.65	57.01	43.64
MW-50	Intermediate Gaspur	11/28/2016	100.65	58.19	42.46
MW-50	Intermediate Gaspur	6/5/2017	100.65	58.75	41.90
MW-50	Intermediate Gaspur	12/4/2017	100.65	59.28	41.37
MW-50	Intermediate Gaspur	6/4/2018	100.65	NM	NM
MW-50	Intermediate Gaspur	6/28/2018	100.65	59.99	40.66

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-50	Intermediate Gaspur	12/3/2018	100.65	60.72	39.93
MW-50	Intermediate Gaspur	6/10/2019	100.65	61.13	39.52
MW-50	Intermediate Gaspur	12/2/2019	100.65	61.81	38.84
MW-50	Intermediate Gaspur	6/8/2020	100.65	62.02	38.63
MW-50	Intermediate Gaspur	11/17/2020	100.65	62.15	38.50
MW-50	Intermediate Gaspur	5/17/2021	100.65	62.60	38.05
MW-50	Intermediate Gaspur	11/15/2021	100.65	63.02	37.63
MW-50	Intermediate Gaspur	6/21/2022	100.65	63.24	37.41
MW-50	Intermediate Gaspur	12/22/2022	100.65	63.43	37.22
MW-50	Intermediate Gaspur	5/15/2023	100.65	63.67	36.98
MW-50	Intermediate Gaspur	11/27/2023	100.65	63.43	37.22
MW-50	Intermediate Gaspur	5/3/2024	100.65	61.79	38.86
MW-50	Intermediate Gaspur	11/18/2024	100.65	60.07	40.58
MW-51	Lower Gaspur	5/4/2009	100.66	47.20	53.46
MW-51	Lower Gaspur	5/19/2009	100.66	47.21	53.45
MW-51	Lower Gaspur	7/15/2010	100.66	49.51	51.15
MW-51	Lower Gaspur	6/13/2011	100.66	50.14	50.52
MW-51	Lower Gaspur	12/5/2011	100.66	49.80	50.86
MW-51	Lower Gaspur	6/7/2012	100.66	49.06	51.60
MW-51	Lower Gaspur	12/10/2012	100.66	49.62	51.04
MW-51	Lower Gaspur	6/17/2013	100.66	50.51	50.15
MW-51	Lower Gaspur	12/9/2013	100.66	50.89	49.77
MW-51	Lower Gaspur	3/27/2014	100.66	51.82	48.84
MW-51	Lower Gaspur	6/9/2014	100.66	52.37	48.29
MW-51	Lower Gaspur	12/15/2014	100.66	53.83	46.83
MW-51	Lower Gaspur	6/8/2015	100.66	55.03	45.63
MW-51	Lower Gaspur	12/7/2015	100.66	56.26	44.40
MW-51	Lower Gaspur	6/6/2016	100.64	57.06	43.58
MW-51	Lower Gaspur	11/28/2016	100.64	58.19	42.45
MW-51	Lower Gaspur	6/5/2017	100.64	58.80	41.84
MW-51	Lower Gaspur	12/4/2017	100.64	59.18	41.46
MW-51	Lower Gaspur	6/4/2018	100.64	NM	NM
MW-51	Lower Gaspur	6/28/2018	100.64	60.04	40.60
MW-51	Lower Gaspur	12/3/2018	100.64	60.74	39.90
MW-51	Lower Gaspur	6/10/2019	100.64	61.11	39.53
MW-51	Lower Gaspur	12/2/2019	100.64	61.81	38.83
MW-51	Lower Gaspur	6/8/2020	100.64	62.01	38.63
MW-51	Lower Gaspur	11/17/2020	100.64	62.15	38.49
MW-51	Lower Gaspur	5/17/2021	100.64	62.62	38.02
MW-51	Lower Gaspur	11/15/2021	100.64	63.05	37.59
MW-51	Lower Gaspur	6/21/2022	100.64	63.25	37.39
MW-51	Lower Gaspur	12/22/2022	100.64	62.79	37.85

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-51	Lower Gaspur	5/15/2023	100.64	63.73	36.91
MW-51	Lower Gaspur	11/27/2023	100.64	63.56	37.08
MW-51	Lower Gaspur	5/3/2024	100.64	61.75	38.89
MW-51	Lower Gaspur	11/18/2024	100.64	60.08	40.56
MW-52	Shallow Gaspur	5/4/2009	100.80	47.18	53.62
MW-52	Shallow Gaspur	5/19/2009	100.80	47.24	53.56
MW-52	Shallow Gaspur	7/15/2010	100.80	49.64	51.16
MW-52	Shallow Gaspur	6/13/2011	100.80	50.10	50.70
MW-52	Shallow Gaspur	12/5/2011	100.80	49.73	51.07
MW-52	Shallow Gaspur	6/7/2012	100.80	49.32	51.48
MW-52	Shallow Gaspur	12/10/2012	100.80	49.72	51.08
MW-52	Shallow Gaspur	6/17/2013	100.80	50.53	50.27
MW-52	Shallow Gaspur	12/9/2013	100.80	50.98	49.82
MW-52	Shallow Gaspur	3/27/2014	100.80	51.78	49.02
MW-52	Shallow Gaspur	6/9/2014	100.80	52.33	48.47
MW-52	Shallow Gaspur	12/15/2014	100.80	53.82	46.98
MW-52	Shallow Gaspur	6/8/2015	100.80	54.67	46.13
MW-52	Shallow Gaspur	12/7/2015	100.80	56.20	44.60
MW-52	Shallow Gaspur	6/6/2016	100.77	56.98	43.79
MW-52	Shallow Gaspur	11/28/2016	100.77	58.15	42.62
MW-52	Shallow Gaspur	6/5/2017	100.77	58.83	41.94
MW-52	Shallow Gaspur	12/4/2017	100.77	59.40	41.37
MW-52	Shallow Gaspur	6/4/2018	100.77	NM	NM
MW-52	Shallow Gaspur	6/28/2018	100.77	60.02	40.75
MW-52	Shallow Gaspur	12/3/2018	100.77	60.66	40.11
MW-52	Shallow Gaspur	6/10/2019	100.77	61.12	39.65
MW-52	Shallow Gaspur	12/2/2019	100.77	61.80	38.97
MW-52	Shallow Gaspur	6/8/2020	100.77	61.95	38.82
MW-52	Shallow Gaspur	11/17/2020	100.77	62.22	38.55
MW-52	Shallow Gaspur	5/17/2021	100.77	62.60	38.17
MW-52	Shallow Gaspur	11/15/2021	100.77	62.96	37.81
MW-52	Shallow Gaspur	6/21/2022	100.77	65.61	35.16
MW-52	Shallow Gaspur	12/22/2022	100.77	63.98	36.79
MW-52	Shallow Gaspur	5/15/2023	100.77	63.37	37.40
MW-52	Shallow Gaspur	11/27/2023	100.77	63.20	37.57
MW-52	Shallow Gaspur	5/7/2024	100.77	61.32	39.45
MW-52	Shallow Gaspur	11/18/2024	100.77	60.11	40.66
MW-53	Lower Gaspur	5/4/2009	100.75	47.37	53.38
MW-53	Lower Gaspur	5/19/2009	100.75	47.46	53.29
MW-53	Lower Gaspur	7/15/2010	100.75	49.88	50.87
MW-53	Lower Gaspur	6/13/2011	100.75	50.27	50.48
MW-53	Lower Gaspur	12/5/2011	100.75	49.86	50.89

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-53	Lower Gaspur	6/7/2012	100.75	49.13	51.62
MW-53	Lower Gaspur	12/10/2012	100.75	49.71	51.04
MW-53	Lower Gaspur	6/17/2013	100.75	50.60	50.15
MW-53	Lower Gaspur	12/9/2013	100.75	51.36	49.39
MW-53	Lower Gaspur	3/27/2014	100.75	51.95	48.80
MW-53	Lower Gaspur	6/9/2014	100.75	52.50	48.25
MW-53	Lower Gaspur	12/15/2014	100.75	53.92	46.83
MW-53	Lower Gaspur	6/8/2015	100.75	54.73	46.02
MW-53	Lower Gaspur	12/7/2015	100.75	56.29	44.46
MW-53	Lower Gaspur	6/6/2016	100.73	57.14	43.59
MW-53	Lower Gaspur	11/28/2016	100.73	58.24	42.49
MW-53	Lower Gaspur	6/5/2017	100.73	59.30	41.43
MW-53	Lower Gaspur	12/4/2017	100.73	59.78	40.95
MW-53	Lower Gaspur	6/4/2018	100.73	NM	NM
MW-53	Lower Gaspur	6/28/2018	100.73	60.02	40.71
MW-53	Lower Gaspur	12/3/2018	100.73	60.78	39.95
MW-53	Lower Gaspur	6/10/2019	100.73	61.12	39.61
MW-53	Lower Gaspur	12/2/2019	100.73	61.83	38.90
MW-53	Lower Gaspur	6/8/2020	100.73	62.01	38.72
MW-53	Lower Gaspur	11/17/2020	100.73	62.23	38.50
MW-53	Lower Gaspur	5/17/2021	100.73	62.62	38.11
MW-53	Lower Gaspur	11/15/2021	100.73	63.07	37.66
MW-53	Lower Gaspur	6/21/2022	100.73	63.36	37.37
MW-53	Lower Gaspur	12/22/2022	100.73	63.69	37.04
MW-53	Lower Gaspur	5/15/2023	100.73	63.68	37.05
MW-53	Lower Gaspur	11/27/2023	100.73	63.52	37.21
MW-53	Lower Gaspur	5/7/2024	100.73	61.71	39.02
MW-53	Lower Gaspur	11/18/2024	100.73	60.14	40.59
MW-54	Lower Gaspur	5/4/2009	100.91	47.80	53.11
MW-54	Lower Gaspur	5/19/2009	100.91	47.92	52.99
MW-54	Lower Gaspur	7/15/2010	100.91	50.25	50.66
MW-54	Lower Gaspur	6/13/2011	100.91	50.49	50.42
MW-54	Lower Gaspur	12/5/2011	100.91	50.17	50.74
MW-54	Lower Gaspur	6/7/2012	100.91	49.62	51.29
MW-54	Lower Gaspur	12/10/2012	100.91	50.18	50.73
MW-54	Lower Gaspur	6/17/2013	100.91	50.84	50.07
MW-54	Lower Gaspur	12/9/2013	100.91	51.61	49.30
MW-54	Lower Gaspur	3/27/2014	100.91	52.50	48.41
MW-54	Lower Gaspur	6/9/2014	100.91	52.95	47.96
MW-54	Lower Gaspur	12/15/2014	100.91	54.43	46.48
MW-54	Lower Gaspur	6/8/2015	100.91	55.28	45.63
MW-54	Lower Gaspur	12/7/2015	100.91	56.83	44.08

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-54	Lower Gaspur	6/6/2016	100.88	57.52	43.36
MW-54	Lower Gaspur	11/28/2016	100.88	58.71	42.17
MW-54	Lower Gaspur	6/5/2017	100.88	59.45	41.43
MW-54	Lower Gaspur	12/4/2017	100.88	60.00	40.88
MW-54	Lower Gaspur	6/4/2018	100.88	NM	NM
MW-54	Lower Gaspur	6/28/2018	100.88	60.43	40.45
MW-54	Lower Gaspur	12/3/2018	100.88	61.18	39.70
MW-54	Lower Gaspur	6/10/2019	100.88	61.43	39.45
MW-54	Lower Gaspur	12/2/2019	100.88	62.19	38.69
MW-54	Lower Gaspur	6/8/2020	100.88	62.25	38.63
MW-54	Lower Gaspur	11/17/2020	100.88	62.69	38.19
MW-54	Lower Gaspur	5/17/2021	100.88	62.92	37.96
MW-54	Lower Gaspur	11/15/2021	100.88	63.37	37.51
MW-54	Lower Gaspur	6/21/2022	100.88	63.57	37.31
MW-54	Lower Gaspur	12/22/2022	100.88	63.96	36.92
MW-54	Lower Gaspur	5/15/2023	100.88	63.96	36.92
MW-54	Lower Gaspur	11/27/2023	100.88	63.61	37.27
MW-54	Lower Gaspur	5/7/2024	100.88	61.79	39.09
MW-54	Lower Gaspur	11/18/2024	100.88	60.22	40.66
MW-55	Exposition	5/19/2009	102.62	53.15	49.47
MW-55	Exposition	7/15/2010	102.62	55.78	46.84
MW-55	Exposition	6/13/2011	102.62	56.10	46.52
MW-55	Exposition	12/5/2011	102.62	55.10	47.52
MW-55	Exposition	6/7/2012	102.62	54.62	48.00
MW-55	Exposition	6/8/2012	102.62	54.62	48.00
MW-55	Exposition	12/10/2012	102.62	55.18	47.44
MW-55	Exposition	6/17/2013	102.62	56.11	46.51
MW-55	Exposition	12/9/2013	102.62	56.62	46.00
MW-55	Exposition	3/27/2014	102.62	57.75	44.87
MW-55	Exposition	6/10/2014	102.62	58.75	43.87
MW-55	Exposition	12/15/2014	102.62	60.32	42.30
MW-55	Exposition	6/8/2015	102.62	61.49	41.13
MW-55	Exposition	12/7/2015	102.62	63.06	39.56
MW-55	Exposition	6/6/2016	102.57	64.02	38.55
MW-55	Exposition	11/28/2016	102.57	65.34	37.23
MW-55	Exposition	6/7/2017	102.57	65.17	37.40
MW-55	Exposition	12/4/2017	102.57	66.10	36.47
MW-55	Exposition	6/4/2018	102.57	66.58	35.99
MW-55	Exposition	6/28/2018	102.57	66.73	35.84
MW-55	Exposition	12/3/2018	102.57	67.52	35.05
MW-55	Exposition	6/10/2019	102.57	67.95	34.62
MW-55	Exposition	12/2/2019	102.57	68.44	34.13

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-55	Exposition	6/8/2020	102.57	68.51	34.06
MW-55	Exposition	11/17/2020	102.57	69.16	33.41
MW-55	Exposition	5/17/2021	102.57	69.32	33.25
MW-55	Exposition	11/15/2021	102.57	69.78	32.79
MW-55	Exposition	6/21/2022	102.57	69.90	32.67
MW-55R	Exposition	12/22/2022	102.74	70.59	32.15
MW-55R	Exposition	2/24/2023	102.74	70.47	32.27
MW-55R	Exposition	5/15/2023	102.74	70.26	32.48
MW-55R	Exposition	9/8/2023	102.74	69.67	33.07
MW-55R	Exposition	11/27/2023	102.74	69.03	33.71
MW-55R	Exposition	5/3/2024	102.74	66.67	36.07
MW-55R	Exposition	11/18/2024	102.74	63.72	39.02
MW-56	Shallow Gaspur	5/4/2009	101.76	48.00	53.76
MW-56	Shallow Gaspur	5/19/2009	101.76	48.02	53.74
MW-56	Shallow Gaspur	7/15/2010	101.76	50.40	51.36
MW-56	Shallow Gaspur	6/13/2011	101.76	50.97	50.79
MW-56	Shallow Gaspur	12/5/2011	101.76	50.53	51.23
MW-56	Shallow Gaspur	6/7/2012	101.76	49.82	51.94
MW-56	Shallow Gaspur	12/10/2012	101.76	50.34	51.42
MW-56	Shallow Gaspur	6/17/2013	101.76	51.53	50.23
MW-56	Shallow Gaspur	12/9/2013	101.76	51.89	49.87
MW-56	Shallow Gaspur	3/27/2014	101.76	52.60	49.16
MW-56	Shallow Gaspur	6/9/2014	101.76	53.10	48.66
MW-56	Shallow Gaspur	12/15/2014	101.76	54.58	47.18
MW-56	Shallow Gaspur	6/8/2015	101.76	55.42	46.34
MW-56	Shallow Gaspur	12/7/2015	101.76	56.94	44.82
MW-56	Shallow Gaspur	6/6/2016	101.73	57.73	44.00
MW-56	Shallow Gaspur	11/28/2016	101.73	58.86	42.87
MW-56	Shallow Gaspur	6/5/2017	101.73	59.20	42.53
MW-56	Shallow Gaspur	12/4/2017	101.73	59.97	41.76
MW-56	Shallow Gaspur	6/4/2018	101.73	NM	NM
MW-56	Shallow Gaspur	6/28/2018	101.73	60.68	41.05
MW-56	Shallow Gaspur	12/3/2018	101.73	61.38	40.35
MW-56	Shallow Gaspur	6/10/2019	101.73	61.76	39.97
MW-56	Shallow Gaspur	12/2/2019	101.73	62.47	39.26
MW-56	Shallow Gaspur	6/8/2020	101.73	62.59	39.14
MW-56	Shallow Gaspur	11/17/2020	101.73	62.76	38.97
MW-56	Shallow Gaspur	5/17/2021	101.73	63.27	38.46
MW-56	Shallow Gaspur	11/15/2021	101.73	63.64	38.09
MW-56	Shallow Gaspur	6/21/2022	101.73	63.94	37.79
MW-56	Shallow Gaspur	12/22/2022	101.73	62.51	39.22
MW-56	Shallow Gaspur	5/15/2023	101.73	64.48	37.25

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-56	Shallow Gaspur	11/27/2023	101.73	64.13	37.60
MW-56	Shallow Gaspur	5/3/2024	101.73	62.60	39.13
MW-56	Shallow Gaspur	11/18/2024	101.73	60.94	40.79
MW-57A	Shallow Gaspur	9/26/2011	105.93	54.06	51.87
MW-57A	Shallow Gaspur	12/5/2011	105.93	52.93	53.00
MW-57A	Shallow Gaspur	3/26/2012	105.93	52.48	53.45
MW-57A	Shallow Gaspur	6/7/2012	105.93	52.22	53.71
MW-57A	Shallow Gaspur	6/13/2012	105.93	52.22	53.71
MW-57A	Shallow Gaspur	12/10/2012	105.93	52.91	53.02
MW-57A	Shallow Gaspur	6/17/2013	105.93	55.11	50.82
MW-57A	Shallow Gaspur	12/9/2013	105.93	55.37	50.56
MW-57A	Shallow Gaspur	6/12/2014	105.93	56.07	49.86
MW-57A	Shallow Gaspur	12/15/2014	105.93	57.20	48.73
MW-57A	Shallow Gaspur	6/8/2015	105.93	57.47	48.46
MW-57A	Shallow Gaspur	12/7/2015	105.93	59.10	46.83
MW-57A	Shallow Gaspur	6/6/2016	105.93	59.74	46.19
MW-57A	Shallow Gaspur	11/28/2016	105.93	60.92	45.01
MW-57A	Shallow Gaspur	6/7/2017	105.93	61.50	44.43
MW-57A	Shallow Gaspur	12/4/2017	105.93	61.95	43.98
MW-57A	Shallow Gaspur	6/4/2018	105.93	62.90	43.03
MW-57A	Shallow Gaspur	6/28/2018	105.93	62.85	43.08
MW-57A	Shallow Gaspur	12/3/2018	105.93	63.46	42.47
MW-57A	Shallow Gaspur	6/10/2019	105.93	63.94	41.99
MW-57A	Shallow Gaspur	12/2/2019	105.93	64.51	41.42
MW-57A	Shallow Gaspur	6/8/2020	105.93	64.94	40.99
MW-57A	Shallow Gaspur	11/17/2020	105.93	65.27	40.66
MW-57A	Shallow Gaspur	5/17/2021	105.93	65.70	40.23
MW-57A	Shallow Gaspur	11/15/2021	105.93	65.88	40.05
MW-57A	Shallow Gaspur	6/21/2022	105.93	66.35	39.58
MW-57A	Shallow Gaspur	12/22/2022	105.93	66.52	39.41
MW-57A	Shallow Gaspur	5/15/2023	105.93	66.72	39.21
MW-57A	Shallow Gaspur	11/27/2023	105.93	66.59	39.34
MW-57A	Shallow Gaspur	5/3/2024	105.93	65.63	40.30
MW-57A	Shallow Gaspur	11/18/2024	105.93	64.50	41.43
MW-57B	Intermediate Gaspur	9/26/2011	105.84	53.74	52.10
MW-57B	Intermediate Gaspur	12/5/2011	105.84	52.88	52.96
MW-57B	Intermediate Gaspur	3/26/2012	105.84	52.35	53.49
MW-57B	Intermediate Gaspur	6/7/2012	105.84	52.00	53.84
MW-57B	Intermediate Gaspur	6/13/2012	105.84	52.00	53.84
MW-57B	Intermediate Gaspur	12/10/2012	105.84	52.70	53.14
MW-57B	Intermediate Gaspur	6/17/2013	105.84	54.53	51.31
MW-57B	Intermediate Gaspur	12/9/2013	105.84	55.01	50.83

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-57B	Intermediate Gaspur	6/12/2014	105.84	56.01	49.83
MW-57B	Intermediate Gaspur	12/15/2014	105.84	56.86	48.98
MW-57B	Intermediate Gaspur	6/8/2015	105.84	57.47	48.37
MW-57B	Intermediate Gaspur	12/7/2015	105.84	59.01	46.83
MW-57B	Intermediate Gaspur	6/6/2016	105.84	59.75	46.09
MW-57B	Intermediate Gaspur	11/28/2016	105.84	61.02	44.82
MW-57B	Intermediate Gaspur	6/7/2017	105.84	61.50	44.34
MW-57B	Intermediate Gaspur	12/4/2017	105.84	61.98	43.86
MW-57B	Intermediate Gaspur	6/4/2018	105.84	62.90	42.94
MW-57B	Intermediate Gaspur	6/28/2018	105.84	62.81	43.03
MW-57B	Intermediate Gaspur	12/3/2018	105.84	63.36	42.48
MW-57B	Intermediate Gaspur	6/10/2019	105.84	63.91	41.93
MW-57B	Intermediate Gaspur	12/2/2019	105.84	64.43	41.41
MW-57B	Intermediate Gaspur	6/8/2020	105.84	64.85	40.99
MW-57B	Intermediate Gaspur	11/17/2020	105.84	65.11	40.73
MW-57B	Intermediate Gaspur	5/17/2021	105.84	65.47	40.37
MW-57B	Intermediate Gaspur	11/15/2021	105.84	65.79	40.05
MW-57B	Intermediate Gaspur	6/21/2022	105.84	66.15	39.69
MW-57B	Intermediate Gaspur	12/22/2022	105.84	66.42	39.42
MW-57B	Intermediate Gaspur	5/15/2023	105.84	66.52	39.32
MW-57B	Intermediate Gaspur	11/27/2023	105.84	66.38	39.46
MW-57B	Intermediate Gaspur	5/3/2024	105.84	65.25	40.59
MW-57B	Intermediate Gaspur	11/18/2024	105.84	64.00	41.84
MW-58	Shallow Gaspur	9/26/2011	106.01	53.94	52.07
MW-58	Shallow Gaspur	12/5/2011	106.01	53.12	52.89
MW-58	Shallow Gaspur	3/26/2012	106.01	52.71	53.30
MW-58	Shallow Gaspur	6/7/2012	106.01	52.43	53.58
MW-58	Shallow Gaspur	6/13/2012	106.01	52.43	53.58
MW-58	Shallow Gaspur	12/10/2012	106.01	53.06	52.95
MW-58	Shallow Gaspur	6/17/2013	106.01	55.04	50.97
MW-58	Shallow Gaspur	12/9/2013	106.01	55.73	50.28
MW-58	Shallow Gaspur	6/12/2014	106.01	56.32	49.69
MW-58	Shallow Gaspur	12/15/2014	106.01	56.40	49.61
MW-58	Shallow Gaspur	6/8/2015	106.01	57.63	48.38
MW-58	Shallow Gaspur	12/7/2015	106.01	54.45	51.56
MW-58	Shallow Gaspur	6/6/2016	106.01	59.98	46.03
MW-58	Shallow Gaspur	11/28/2016	106.01	61.13	44.88
MW-58	Shallow Gaspur	6/7/2017	106.01	61.65	44.36
MW-58	Shallow Gaspur	12/4/2017	106.01	62.15	43.86
MW-58	Shallow Gaspur	6/4/2018	106.01	Dry	Dry
MW-58	Shallow Gaspur	6/28/2018	106.01	63.11	42.90
MW-58	Shallow Gaspur	12/3/2018	106.01	63.52	42.49

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-58	Shallow Gaspur	6/10/2019	106.01	64.14	41.87
MW-58	Shallow Gaspur	12/2/2019	106.01	64.72	41.29
MW-58	Shallow Gaspur	6/8/2020	106.01	65.13	40.88
MW-58	Shallow Gaspur	11/17/2020	106.01	65.41	40.60
MW-58	Shallow Gaspur	5/17/2021	106.01	65.80	40.21
MW-58	Shallow Gaspur	11/15/2021	106.01	66.10	39.91
MW-58	Shallow Gaspur	6/21/2022	106.01	66.45	39.56
MW-58	Shallow Gaspur	12/22/2022	106.01	66.83	39.18
MW-58	Shallow Gaspur	5/15/2023	106.01	66.87	39.14
MW-58	Shallow Gaspur	11/27/2023	106.01	66.82	39.19
MW-58	Shallow Gaspur	5/3/2024	106.01	69.10	36.91
MW-58	Shallow Gaspur	11/18/2024	106.01	64.75	41.26
MW-59A	Shallow Gaspur	6/13/2011	105.72	53.31	52.41
MW-59A	Shallow Gaspur	9/26/2011	105.72	54.00	51.72
MW-59A	Shallow Gaspur	12/5/2011	105.72	53.06	52.66
MW-59A	Shallow Gaspur	3/26/2012	105.72	52.29	53.43
MW-59A	Shallow Gaspur	6/7/2012	105.72	52.44	53.28
MW-59A	Shallow Gaspur	6/13/2012	105.72	52.44	53.28
MW-59A	Shallow Gaspur	12/10/2012	105.72	53.04	52.68
MW-59A	Shallow Gaspur	6/17/2013	105.72	55.20	50.52
MW-59A	Shallow Gaspur	12/9/2013	105.72	55.52	50.20
MW-59A	Shallow Gaspur	6/12/2014	105.72	56.08	49.64
MW-59A	Shallow Gaspur	12/15/2014	105.72	57.31	48.41
MW-59A	Shallow Gaspur	6/8/2015	105.72	57.75	47.97
MW-59A	Shallow Gaspur	12/7/2015	105.72	59.29	46.43
MW-59A	Shallow Gaspur	6/6/2016	105.72	59.92	45.80
MW-59A	Shallow Gaspur	11/28/2016	105.72	61.07	44.65
MW-59A	Shallow Gaspur	6/7/2017	105.72	62.70	43.02
MW-59A	Shallow Gaspur	12/4/2017	105.72	62.34	43.38
MW-59A	Shallow Gaspur	6/4/2018	105.72	Dry	Dry
MW-59A	Shallow Gaspur	6/28/2018	105.72	Dry	Dry
MW-59A	Shallow Gaspur	12/3/2018	105.72	Dry	Dry
MW-59A	Shallow Gaspur	6/10/2019	105.72	62.41	43.31
MW-59A	Shallow Gaspur	12/2/2019	105.72	62.50	43.22
MW-59A	Shallow Gaspur	6/8/2020	105.72	Dry	Dry
MW-59A	Shallow Gaspur	11/17/2020	105.72	Dry	Dry
MW-59A	Shallow Gaspur	5/17/2021	105.72	Dry	Dry
MW-59A	Shallow Gaspur	11/15/2021	105.72	62.58	43.14
MW-59A	Shallow Gaspur	6/21/2022	105.72	Dry	Dry
MW-59A	Shallow Gaspur	12/22/2022	105.72	Dry	Dry
MW-59A	Shallow Gaspur	5/15/2023	105.72	Dry	Dry
MW-59A	Shallow Gaspur	11/27/2023	105.72	Dry	Dry

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-59A	Shallow Gaspur	5/3/2024	105.72	Dry	Dry
MW-59A	Shallow Gaspur	11/18/2024	105.72	Dry	Dry
MW-59B	Intermediate Gaspur	6/13/2011	105.61	53.20	52.41
MW-59B	Intermediate Gaspur	9/26/2011	105.61	54.00	51.61
MW-59B	Intermediate Gaspur	12/5/2011	105.61	53.01	52.60
MW-59B	Intermediate Gaspur	3/26/2012	105.61	52.75	52.86
MW-59B	Intermediate Gaspur	6/7/2012	105.61	52.35	53.26
MW-59B	Intermediate Gaspur	6/13/2012	105.61	52.35	53.26
MW-59B	Intermediate Gaspur	12/10/2012	105.61	53.00	52.61
MW-59B	Intermediate Gaspur	6/17/2013	105.61	55.17	50.44
MW-59B	Intermediate Gaspur	12/9/2013	105.61	55.93	49.68
MW-59B	Intermediate Gaspur	6/12/2014	105.61	56.01	49.60
MW-59B	Intermediate Gaspur	12/15/2014	105.61	57.29	48.32
MW-59B	Intermediate Gaspur	6/8/2015	105.61	57.60	48.01
MW-59B	Intermediate Gaspur	12/7/2015	105.61	59.35	46.26
MW-59B	Intermediate Gaspur	6/6/2016	105.61	59.91	45.70
MW-59B	Intermediate Gaspur	11/28/2016	105.61	61.10	44.51
MW-59B	Intermediate Gaspur	6/7/2017	105.61	61.83	43.78
MW-59B	Intermediate Gaspur	12/4/2017	105.61	62.38	43.23
MW-59B	Intermediate Gaspur	6/4/2018	105.61	62.94	42.67
MW-59B	Intermediate Gaspur	6/28/2018	105.61	63.06	42.55
MW-59B	Intermediate Gaspur	12/3/2018	105.61	63.61	42.00
MW-59B	Intermediate Gaspur	6/10/2019	105.61	64.08	41.53
MW-59B	Intermediate Gaspur	12/2/2019	105.61	64.72	40.89
MW-59B	Intermediate Gaspur	6/8/2020	105.61	65.06	40.55
MW-59B	Intermediate Gaspur	11/17/2020	105.61	65.42	40.19
MW-59B	Intermediate Gaspur	5/17/2021	105.61	65.80	39.81
MW-59B	Intermediate Gaspur	11/15/2021	105.61	66.10	39.51
MW-59B	Intermediate Gaspur	6/21/2022	105.61	66.43	39.18
MW-59B	Intermediate Gaspur	12/22/2022	105.61	66.74	38.87
MW-59B	Intermediate Gaspur	5/15/2023	105.61	66.90	38.71
MW-59B	Intermediate Gaspur	11/27/2023	105.61	66.77	38.84
MW-59B	Intermediate Gaspur	5/3/2024	105.61	65.66	39.95
MW-59B	Intermediate Gaspur	11/18/2024	105.61	64.50	41.11
MW-59C	Intermediate Gaspur	6/13/2011	105.76	53.34	52.42
MW-59C	Intermediate Gaspur	9/26/2011	105.76	54.03	51.73
MW-59C	Intermediate Gaspur	12/5/2011	105.76	53.09	52.67
MW-59C	Intermediate Gaspur	3/26/2012	105.76	57.70	48.06
MW-59C	Intermediate Gaspur	6/7/2012	105.76	52.55	53.21
MW-59C	Intermediate Gaspur	6/13/2012	105.76	52.55	53.21
MW-59C	Intermediate Gaspur	12/10/2012	105.76	52.99	52.77
MW-59C	Intermediate Gaspur	6/17/2013	105.76	55.16	50.60

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-59C	Intermediate Gaspur	12/9/2013	105.76	55.40	50.36
MW-59C	Intermediate Gaspur	6/12/2014	105.76	56.10	49.66
MW-59C	Intermediate Gaspur	12/15/2014	105.76	57.55	48.21
MW-59C	Intermediate Gaspur	6/8/2015	105.76	57.88	47.88
MW-59C	Intermediate Gaspur	12/7/2015	105.76	59.52	46.24
MW-59C	Intermediate Gaspur	6/6/2016	105.76	60.21	45.55
MW-59C	Intermediate Gaspur	11/28/2016	105.76	61.40	44.36
MW-59C	Intermediate Gaspur	6/7/2017	105.76	62.00	43.76
MW-59C	Intermediate Gaspur	12/4/2017	105.76	62.62	43.14
MW-59C	Intermediate Gaspur	6/4/2018	105.76	63.20	42.56
MW-59C	Intermediate Gaspur	6/28/2018	105.76	63.33	42.43
MW-59C	Intermediate Gaspur	12/3/2018	105.76	63.85	41.91
MW-59C	Intermediate Gaspur	6/10/2019	105.76	64.32	41.44
MW-59C	Intermediate Gaspur	12/2/2019	105.76	65.41	40.35
MW-59C	Intermediate Gaspur	6/8/2020	105.76	65.31	40.45
MW-59C	Intermediate Gaspur	11/17/2020	105.76	65.66	40.10
MW-59C	Intermediate Gaspur	5/17/2021	105.76	66.00	39.76
MW-59C	Intermediate Gaspur	11/15/2021	105.76	66.38	39.38
MW-59C	Intermediate Gaspur	6/21/2022	105.76	66.65	39.11
MW-59C	Intermediate Gaspur	12/22/2022	105.76	66.91	38.85
MW-59C	Intermediate Gaspur	5/15/2023	105.76	67.09	38.67
MW-59C	Intermediate Gaspur	11/27/2023	105.76	66.95	38.81
MW-59C	Intermediate Gaspur	5/3/2024	105.76	65.69	40.07
MW-59C	Intermediate Gaspur	11/18/2024	105.76	64.44	41.32
MW-60A	Shallow Gaspur	9/26/2011	105.69	54.32	51.37
MW-60A	Shallow Gaspur	12/5/2011	105.69	53.53	52.16
MW-60A	Shallow Gaspur	3/26/2012	105.69	53.28	52.41
MW-60A	Shallow Gaspur	6/7/2012	105.69	52.79	52.90
MW-60A	Shallow Gaspur	6/12/2012	105.69	52.79	52.90
MW-60A	Shallow Gaspur	12/10/2012	105.69	53.35	52.34
MW-60A	Shallow Gaspur	6/17/2013	105.69	54.85	50.84
MW-60A	Shallow Gaspur	12/9/2013	105.69	55.41	50.28
MW-60A	Shallow Gaspur	6/11/2014	105.69	56.41	49.28
MW-60A	Shallow Gaspur	12/15/2014	105.69	57.30	48.39
MW-60A	Shallow Gaspur	6/8/2015	105.69	58.20	47.49
MW-60A	Shallow Gaspur	12/7/2015	105.69	59.89	45.80
MW-60A	Shallow Gaspur	6/6/2016	105.69	60.62	45.07
MW-60A	Shallow Gaspur	11/28/2016	105.69	61.74	43.95
MW-60A	Shallow Gaspur	6/7/2017	105.69	62.36	43.33
MW-60A	Shallow Gaspur	12/4/2017	105.69	63.10	42.59
MW-60A	Shallow Gaspur	6/4/2018	105.69	63.25	42.44
MW-60A	Shallow Gaspur	6/28/2018	105.69	63.65	42.04

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-60A	Shallow Gaspur	12/3/2018	105.69	64.22	41.47
MW-60A	Shallow Gaspur	6/10/2019	105.69	64.71	40.98
MW-60A	Shallow Gaspur	12/2/2019	105.69	65.23	40.46
MW-60A	Shallow Gaspur	6/8/2020	105.69	65.74	39.95
MW-60A	Shallow Gaspur	11/17/2020	105.69	65.87	39.82
MW-60A	Shallow Gaspur	5/17/2021	105.69	66.34	39.35
MW-60A	Shallow Gaspur	11/15/2021	105.69	66.60	39.09
MW-60A	Shallow Gaspur	6/21/2022	105.69	66.95	38.74
MW-60A	Shallow Gaspur	12/22/2022	105.69	67.40	38.29
MW-60A	Shallow Gaspur	5/15/2023	105.69	67.42	38.27
MW-60A	Shallow Gaspur	11/27/2023	105.69	67.27	38.42
MW-60A	Shallow Gaspur	5/3/2024	105.69	66.05	39.64
MW-60A	Shallow Gaspur	11/18/2024	105.69	64.91	40.78
MW-60B	Lower Gaspur	9/26/2011	105.64	54.48	51.16
MW-60B	Lower Gaspur	12/5/2011	105.64	53.62	52.02
MW-60B	Lower Gaspur	3/26/2012	105.64	53.21	52.43
MW-60B	Lower Gaspur	6/7/2012	105.64	52.90	52.74
MW-60B	Lower Gaspur	6/12/2012	105.64	52.90	52.74
MW-60B	Lower Gaspur	12/10/2012	105.64	53.52	52.12
MW-60B	Lower Gaspur	6/17/2013	105.64	54.79	50.85
MW-60B	Lower Gaspur	12/9/2013	105.64	55.40	50.24
MW-60B	Lower Gaspur	6/11/2014	105.64	56.38	49.26
MW-60B	Lower Gaspur	12/15/2014	105.64	57.60	48.04
MW-60B	Lower Gaspur	6/8/2015	105.64	58.12	47.52
MW-60B	Lower Gaspur	12/7/2015	105.64	59.97	45.67
MW-60B	Lower Gaspur	6/6/2016	105.64	60.78	44.86
MW-60B	Lower Gaspur	11/28/2016	105.64	61.93	43.71
MW-60B	Lower Gaspur	6/7/2017	105.64	62.58	43.06
MW-60B	Lower Gaspur	12/4/2017	105.64	63.43	42.21
MW-60B	Lower Gaspur	6/4/2018	105.64	63.49	42.15
MW-60B	Lower Gaspur	6/28/2018	105.64	63.90	41.74
MW-60B	Lower Gaspur	12/3/2018	105.64	64.46	41.18
MW-60B	Lower Gaspur	6/10/2019	105.64	64.94	40.70
MW-60B	Lower Gaspur	12/2/2019	105.64	65.39	40.25
MW-60B	Lower Gaspur	6/8/2020	105.64	65.82	39.82
MW-60B	Lower Gaspur	11/17/2020	105.64	66.14	39.50
MW-60B	Lower Gaspur	5/17/2021	105.64	66.46	39.18
MW-60B	Lower Gaspur	11/15/2021	105.64	66.71	38.93
MW-60B	Lower Gaspur	6/21/2022	105.64	67.11	38.53
MW-60B	Lower Gaspur	12/22/2022	105.64	67.52	38.12
MW-60B	Lower Gaspur	5/15/2023	105.64	67.50	38.14
MW-60B	Lower Gaspur	11/27/2023	105.64	67.39	38.25

OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-60B	Lower Gaspur	5/3/2024	105.64	66.06	39.58
MW-60B	Lower Gaspur	11/18/2024	105.64	64.78	40.86
MW-61A	Shallow Gaspur	9/26/2011	104.84	53.34	51.50
MW-61A	Shallow Gaspur	12/5/2011	104.84	52.53	52.31
MW-61A	Shallow Gaspur	3/26/2012	104.84	52.18	52.66
MW-61A	Shallow Gaspur	6/7/2012	104.84	51.90	52.94
MW-61A	Shallow Gaspur	6/8/2012	104.84	51.90	52.94
MW-61A	Shallow Gaspur	12/10/2012	104.84	52.53	52.31
MW-61A	Shallow Gaspur	6/17/2013	104.84	54.41	50.43
MW-61A	Shallow Gaspur	12/9/2013	104.84	54.97	49.87
MW-61A	Shallow Gaspur	6/9/2014	104.84	55.80	49.04
MW-61A	Shallow Gaspur	12/15/2014	104.84	56.82	48.02
MW-61A	Shallow Gaspur	6/8/2015	104.84	57.25	47.59
MW-61A	Shallow Gaspur	12/7/2015	104.84	59.02	45.82
MW-61A	Shallow Gaspur	6/6/2016	104.84	59.75	45.09
MW-61A	Shallow Gaspur	11/28/2016	104.84	60.84	44.00
MW-61A	Shallow Gaspur	6/7/2017	104.84	61.50	43.34
MW-61A	Shallow Gaspur	12/4/2017	104.84	62.00	42.84
MW-61A	Shallow Gaspur	6/4/2018	104.84	62.14	42.70
MW-61A	Shallow Gaspur	6/28/2018	104.84	62.71	42.13
MW-61A	Shallow Gaspur	12/3/2018	104.84	63.29	41.55
MW-61A	Shallow Gaspur	6/10/2019	104.84	63.76	41.08
MW-61A	Shallow Gaspur	12/2/2019	104.84	64.38	40.46
MW-61A	Shallow Gaspur	6/8/2020	104.84	64.69	40.15
MW-61A	Shallow Gaspur	11/17/2020	104.84	65.14	39.70
MW-61A	Shallow Gaspur	5/17/2021	104.84	65.40	39.44
MW-61A	Shallow Gaspur	11/15/2021	104.84	65.86	38.98
MW-61A	Shallow Gaspur	6/21/2022	104.84	66.10	38.74
MW-61A	Shallow Gaspur	12/22/2022	104.84	66.34	38.50
MW-61A	Shallow Gaspur	5/15/2023	104.84	66.42	38.42
MW-61A	Shallow Gaspur	11/27/2023	104.84	66.34	38.50
MW-61A	Shallow Gaspur	5/3/2024	104.84	65.20	39.64
MW-61A	Shallow Gaspur	11/18/2024	104.84	63.90	40.94
MW-61B	Intermediate Gaspur	9/26/2011	104.84	53.48	51.36
MW-61B	Intermediate Gaspur	12/5/2011	104.84	52.64	52.20
MW-61B	Intermediate Gaspur	3/26/2012	104.84	52.17	52.67
MW-61B	Intermediate Gaspur	6/7/2012	104.84	52.00	52.84
MW-61B	Intermediate Gaspur	6/8/2012	104.84	52.00	52.84
MW-61B	Intermediate Gaspur	12/10/2012	104.84	52.52	52.32
MW-61B	Intermediate Gaspur	6/17/2013	104.84	54.22	50.62
MW-61B	Intermediate Gaspur	12/9/2013	104.84	54.72	50.12
MW-61B	Intermediate Gaspur	6/9/2014	104.84	55.79	49.05

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-61B	Intermediate Gaspur	12/15/2014	104.84	56.67	48.17
MW-61B	Intermediate Gaspur	6/8/2015	104.84	57.30	47.54
MW-61B	Intermediate Gaspur	12/7/2015	104.84	58.95	45.89
MW-61B	Intermediate Gaspur	6/6/2016	104.84	59.83	45.01
MW-61B	Intermediate Gaspur	11/28/2016	104.84	61.03	43.81
MW-61B	Intermediate Gaspur	6/7/2017	104.84	61.60	43.24
MW-61B	Intermediate Gaspur	12/4/2017	104.84	62.11	42.73
MW-61B	Intermediate Gaspur	6/4/2018	104.84	62.37	42.47
MW-61B	Intermediate Gaspur	6/28/2018	104.84	62.87	41.97
MW-61B	Intermediate Gaspur	12/3/2018	104.84	63.38	41.46
MW-61B	Intermediate Gaspur	6/10/2019	104.84	63.86	40.98
MW-61B	Intermediate Gaspur	12/2/2019	104.84	64.51	40.33
MW-61B	Intermediate Gaspur	6/8/2020	104.84	64.92	39.92
MW-61B	Intermediate Gaspur	11/17/2020	104.84	65.19	39.65
MW-61B	Intermediate Gaspur	5/17/2021	104.84	65.50	39.34
MW-61B	Intermediate Gaspur	11/15/2021	104.84	65.86	38.98
MW-61B	Intermediate Gaspur	6/21/2022	104.84	66.18	38.66
MW-61B	Intermediate Gaspur	12/22/2022	104.84	66.42	38.42
MW-61B	Intermediate Gaspur	5/15/2023	104.84	66.46	38.38
MW-61B	Intermediate Gaspur	11/27/2023	104.84	66.42	38.42
MW-61B	Intermediate Gaspur	5/3/2024	104.84	65.21	39.63
MW-61B	Intermediate Gaspur	11/18/2024	104.84	63.80	41.04
MW-62A	Shallow Gaspur	9/26/2011	105.22	54.04	51.18
MW-62A	Shallow Gaspur	12/5/2011	105.22	53.22	52.00
MW-62A	Shallow Gaspur	3/26/2012	105.22	52.83	52.39
MW-62A	Shallow Gaspur	6/7/2012	105.22	52.48	52.74
MW-62A	Shallow Gaspur	6/12/2012	105.22	52.48	52.74
MW-62A	Shallow Gaspur	12/10/2012	105.22	53.22	52.00
MW-62A	Shallow Gaspur	6/17/2013	105.22	54.39	50.83
MW-62A	Shallow Gaspur	12/9/2013	105.22	54.90	50.32
MW-62A	Shallow Gaspur	3/27/2014	105.22	55.13	50.09
MW-62A	Shallow Gaspur	6/11/2014	105.22	55.92	49.30
MW-62A	Shallow Gaspur	12/15/2014	105.22	57.20	48.02
MW-62A	Shallow Gaspur	6/8/2015	105.22	58.37	46.85
MW-62A	Shallow Gaspur	12/7/2015	105.22	59.67	45.55
MW-62A	Shallow Gaspur	6/6/2016	105.22	60.40	44.82
MW-62A	Shallow Gaspur	11/28/2016	105.22	61.53	43.69
MW-62A	Shallow Gaspur	6/5/2017	105.22	65.90	39.32
MW-62A	Shallow Gaspur	12/4/2017	105.22	62.70	42.52
MW-62A	Shallow Gaspur	6/4/2018	105.22	66.93	38.29
MW-62A	Shallow Gaspur	6/28/2018	105.22	63.39	41.83
MW-62A	Shallow Gaspur	12/3/2018	105.22	64.02	41.20

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-62A	Shallow Gaspur	6/10/2019	105.22	64.47	40.75
MW-62A	Shallow Gaspur	12/2/2019	105.22	65.00	40.22
MW-62A	Shallow Gaspur	6/8/2020	105.22	65.31	39.91
MW-62A	Shallow Gaspur	11/17/2020	105.22	65.41	39.81
MW-62A	Shallow Gaspur	5/17/2021	105.22	66.00	39.22
MW-62A	Shallow Gaspur	11/15/2021	105.22	66.30	38.92
MW-62A	Shallow Gaspur	6/21/2022	105.22	66.71	38.51
MW-62A	Shallow Gaspur	12/22/2022	105.22	66.98	38.24
MW-62A	Shallow Gaspur	5/15/2023	105.22	67.03	38.19
MW-62A	Shallow Gaspur	11/27/2023	105.22	66.90	38.32
MW-62A	Shallow Gaspur	5/3/2024	105.22	65.65	39.57
MW-62A	Shallow Gaspur	11/18/2024	105.22	64.17	41.05
MW-62B	Lower Gaspur	9/26/2011	105.22	54.08	51.14
MW-62B	Lower Gaspur	12/5/2011	105.22	53.17	52.05
MW-62B	Lower Gaspur	3/26/2012	105.22	52.80	52.42
MW-62B	Lower Gaspur	6/7/2012	105.22	52.42	52.80
MW-62B	Lower Gaspur	6/12/2012	105.22	52.42	52.80
MW-62B	Lower Gaspur	12/10/2012	105.22	53.01	52.21
MW-62B	Lower Gaspur	6/17/2013	105.22	54.53	50.69
MW-62B	Lower Gaspur	12/9/2013	105.22	54.88	50.34
MW-62B	Lower Gaspur	3/27/2014	105.22	55.22	50.00
MW-62B	Lower Gaspur	6/11/2014	105.22	55.94	49.28
MW-62B	Lower Gaspur	12/15/2014	105.22	57.22	48.00
MW-62B	Lower Gaspur	6/8/2015	105.22	58.26	46.96
MW-62B	Lower Gaspur	12/7/2015	105.22	59.28	45.94
MW-62B	Lower Gaspur	6/6/2016	105.22	60.44	44.78
MW-62B	Lower Gaspur	11/28/2016	105.22	61.59	43.63
MW-62B	Lower Gaspur	6/5/2017	105.22	62.22	43.00
MW-62B	Lower Gaspur	12/4/2017	105.22	62.80	42.42
MW-62B	Lower Gaspur	6/4/2018	105.22	63.27	41.95
MW-62B	Lower Gaspur	6/28/2018	105.22	63.48	41.74
MW-62B	Lower Gaspur	12/3/2018	105.22	64.11	41.11
MW-62B	Lower Gaspur	6/10/2019	105.22	64.54	40.68
MW-62B	Lower Gaspur	12/2/2019	105.22	65.04	40.18
MW-62B	Lower Gaspur	6/8/2020	105.22	65.41	39.81
MW-62B	Lower Gaspur	11/17/2020	105.22	65.73	39.49
MW-62B	Lower Gaspur	5/17/2021	105.22	66.12	39.10
MW-62B	Lower Gaspur	11/15/2021	105.22	66.31	38.91
MW-62B	Lower Gaspur	6/21/2022	105.22	66.69	38.53
MW-62B	Lower Gaspur	12/22/2022	105.22	67.20	38.02
MW-62B	Lower Gaspur	5/15/2023	105.22	67.13	38.09
MW-62B	Lower Gaspur	11/27/2023	105.22	66.90	38.32

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-62B	Lower Gaspur	5/3/2024	105.22	65.62	39.60
MW-62B	Lower Gaspur	11/18/2024	105.22	64.28	40.94
MW-63	Shallow Gaspur	6/4/2018	105.86	62.60	43.26
MW-63	Shallow Gaspur	6/28/2018	105.86	62.56	43.30
MW-63	Shallow Gaspur	12/3/2018	105.86	63.15	42.71
MW-63	Shallow Gaspur	6/11/2019	105.86	63.62	42.24
MW-63	Shallow Gaspur	12/2/2019	105.86	64.32	41.54
MW-63	Shallow Gaspur	6/8/2020	105.86	64.59	41.27
MW-63	Shallow Gaspur	11/17/2020	105.86	65.04	40.82
MW-63	Shallow Gaspur	5/17/2021	105.86	65.37	40.49
MW-63	Shallow Gaspur	11/15/2021	105.86	65.57	40.29
MW-63	Shallow Gaspur	6/21/2022	105.86	65.94	39.92
MW-63	Shallow Gaspur	12/22/2022	105.86	66.16	39.70
MW-63	Shallow Gaspur	5/15/2023	105.86	65.98	39.88
MW-63	Shallow Gaspur	11/27/2023	105.86	66.39	39.47
MW-63	Shallow Gaspur	5/3/2024	105.86	65.06	40.80
MW-63	Shallow Gaspur	11/18/2024	108.86	67.70	41.16
MW-64A	Intermediate Gaspur	6/4/2018	106.03	62.60	43.43
MW-64A	Intermediate Gaspur	6/28/2018	106.03	62.03	44.00
MW-64A	Intermediate Gaspur	12/3/2018	106.03	62.57	43.46
MW-64A	Intermediate Gaspur	6/11/2019	106.03	63.00	43.03
MW-64A	Intermediate Gaspur	12/2/2019	106.03	63.81	42.22
MW-64A	Intermediate Gaspur	6/8/2020	106.03	64.02	42.01
MW-64A	Intermediate Gaspur	11/17/2020	106.03	64.27	41.76
MW-64A	Intermediate Gaspur	5/17/2021	106.03	64.72	41.31
MW-64A	Intermediate Gaspur	11/15/2021	106.03	64.97	41.06
MW-64A	Intermediate Gaspur	6/21/2022	106.03	65.31	40.72
MW-64A	Intermediate Gaspur	12/22/2022	106.03	65.42	40.61
MW-64A	Intermediate Gaspur	5/15/2023	106.03	65.77	40.26
MW-64A	Intermediate Gaspur	11/27/2023	106.03	NM	NM
MW-64A	Intermediate Gaspur	5/3/2024	106.03	NM	NM
MW-64A	Intermediate Gaspur	11/18/2024	108.36	66.42	41.94
MW-64B	Lower Gaspur	6/4/2018	106.01	65.73	40.28
MW-64B	Lower Gaspur	6/28/2018	106.01	65.97	40.04
MW-64B	Lower Gaspur	12/3/2018	106.01	66.56	39.45
MW-64B	Lower Gaspur	6/11/2019	106.01	66.95	39.06
MW-64B	Lower Gaspur	12/2/2019	106.01	67.54	38.47
MW-64B	Lower Gaspur	6/8/2020	106.01	67.71	38.30
MW-64B	Lower Gaspur	11/17/2020	106.01	68.14	37.87
MW-64B	Lower Gaspur	5/17/2021	106.01	68.37	37.64
MW-64B	Lower Gaspur	11/15/2021	106.01	68.84	37.17
MW-64B	Lower Gaspur	6/21/2022	106.01	69.05	36.96

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
MW-64B	Lower Gaspur	12/22/2022	106.01	69.36	36.65
MW-64B	Lower Gaspur	5/15/2023	106.01	69.30	36.71
MW-64B	Lower Gaspur	11/27/2023	106.01	NM	NM
MW-64B	Lower Gaspur	5/3/2024	106.01	NM	NM
MW-64B	Lower Gaspur	11/18/2024	108.33	67.76	40.57
EW-2	Shallow Gaspur	12/14/2000	103.72	45.88	57.84
EW-2	Shallow Gaspur	2/8/2001	103.72	45.45	58.27
EW-2	Shallow Gaspur	5/1/2003	103.72	47.98	55.74
EW-2	Shallow Gaspur	12/18/2003	103.72	48.71	55.01
EW-2	Shallow Gaspur	4/16/2004	103.72	49.08	54.64
EW-2	Shallow Gaspur	8/27/2004	103.72	49.65	54.07
EW-2	Shallow Gaspur	12/22/2004	103.72	50.20	53.52
EW-2	Shallow Gaspur	4/20/2005	103.72	49.57	54.15
EW-2	Shallow Gaspur	6/6/2006	103.72	47.54	56.18
EW-2	Shallow Gaspur	8/28/2006	103.72	47.56	56.16
EW-2	Shallow Gaspur	2/28/2007	103.72	47.18	56.54
EW-2	Shallow Gaspur	3/19/2008	103.72	48.33	55.39
EW-2	Shallow Gaspur	4/14/2008	103.72	48.18	55.54
EW-2	Shallow Gaspur	5/19/2009	103.72	50.24	53.48
EW-2	Shallow Gaspur	7/15/2010	103.72	52.86	50.86
EW-2	Shallow Gaspur	6/17/2013	103.72	65.75	37.97
EW-2	Shallow Gaspur	12/9/2013	103.72	66.86	36.86
EW-2	Shallow Gaspur	12/17/2015	103.72	58.22	45.50
EW-2	Shallow Gaspur	6/6/2016	103.72	NM	NM
EW-2	Shallow Gaspur	6/4/2018	103.72	61.70	42.02
EW-2	Shallow Gaspur	6/28/2018	103.72	NM	NM
EW-2	Shallow Gaspur	12/3/2018	103.72	NM	NM
EW-4	Shallow/Intermediate Gaspur	6/17/2013	103.50	54.44	49.06
EW-4	Shallow/Intermediate Gaspur	12/9/2013	103.50	55.30	48.20
EW-4	Shallow/Intermediate Gaspur	12/17/2015	103.50	58.01	45.49
EW-4	Shallow/Intermediate Gaspur	6/6/2016	103.50	NM	NM
EW-4	Shallow/Intermediate Gaspur	11/15/2021	103.37	66.64	36.73
EW-4	Shallow/Intermediate Gaspur	12/7/2022	103.37	66.13	37.24
EW-4	Shallow/Intermediate Gaspur	12/14/2022	103.37	65.07	38.30
EW-4	Shallow/Intermediate Gaspur	12/21/2022	103.37	66.27	37.10
EW-4	Shallow/Intermediate Gaspur	12/28/2022	103.37	66.51	36.86
EW-4	Shallow/Intermediate Gaspur	6/7/2023	103.37	64.50	38.87
EW-4	Shallow/Intermediate Gaspur	12/6/2023	103.37	65.03	38.34
EW-4	Shallow/Intermediate Gaspur	11/27/2024	103.37	65.50	37.87
EW-5	Shallow Gaspur	6/17/2013	NA	54.99	NA
EW-5	Shallow Gaspur	12/9/2013	NA	55.54	NA
EW-5	Shallow Gaspur	6/11/2014	NA	56.93	NA

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
EW-5	Shallow Gaspur	12/17/2015	NA	59.89	NA
EW-5	Shallow Gaspur	6/6/2016	106.54	NM	NM
EW-5	Shallow Gaspur	6/5/2017	106.54	61.75	44.79
EW-5	Shallow Gaspur	12/4/2017	106.54	NM	NM
EW-5	Shallow Gaspur	6/4/2018	106.54	NM	NM
EW-5	Shallow Gaspur	6/28/2018	106.54	NM	NM
EW-5	Shallow Gaspur	12/3/2018	106.54	NM	NM
EW-5	Shallow Gaspur	11/15/2021	104.50	68.51	35.99
EW-5	Shallow Gaspur	12/7/2022	104.50	70.76	33.74
EW-5	Shallow Gaspur	12/14/2022	104.50	70.70	33.80
EW-5	Shallow Gaspur	12/21/2022	104.50	70.29	34.21
EW-5	Shallow Gaspur	12/28/2022	104.50	NM	NM
EW-5	Shallow Gaspur	6/7/2023	104.50	66.75	37.75
EW-5	Shallow Gaspur	12/6/2023	104.50	NM	NM
EW-5	Shallow Gaspur	11/18/2024	104.50	63.65	40.85
EW-7A	Shallow/Intermediate Gaspur	6/17/2013	NA	53.67	NA
EW-7A	Shallow/Intermediate Gaspur	12/9/2013	NA	54.39	NA
EW-7A	Shallow/Intermediate Gaspur	6/11/2014	NA	55.57	NA
EW-7A	Shallow/Intermediate Gaspur	12/17/2015	NA	58.89	NA
EW-7A	Shallow/Intermediate Gaspur	6/6/2016	105.97	NM	NM
EW-7A	Shallow/Intermediate Gaspur	12/4/2017	105.97	61.81	44.16
EW-7A	Shallow/Intermediate Gaspur	6/4/2018	105.97	NM	NM
EW-7A	Shallow/Intermediate Gaspur	6/28/2018	105.97	NM	NM
EW-7A	Shallow/Intermediate Gaspur	12/3/2018	105.97	NM	NM
EW-7A	Shallow/Intermediate Gaspur	11/15/2021	104.15	75.95	28.20
EW-7A	Shallow/Intermediate Gaspur	12/7/2022	104.15	66.47	37.68
EW-7A	Shallow/Intermediate Gaspur	12/14/2022	104.15	66.36	37.79
EW-7A	Shallow/Intermediate Gaspur	12/21/2022	104.15	66.22	37.93
EW-7A	Shallow/Intermediate Gaspur	12/28/2022	104.15	65.29	38.86
EW-7A	Shallow/Intermediate Gaspur	6/7/2023	104.15	66.60	37.55
EW-7A	Shallow/Intermediate Gaspur	12/6/2023	104.15	66.40	37.75
EW-7A	Shallow/Intermediate Gaspur	11/20/2024	104.15	83.44	20.71
EW-7B	Lower Gaspur	6/17/2013	NA	54.28	NA
EW-7B	Lower Gaspur	12/9/2013	NA	55.08	NA
EW-7B	Lower Gaspur	6/11/2014	NA	56.37	NA
EW-7B	Lower Gaspur	12/17/2015	NA	60.31	NA
EW-7B	Lower Gaspur	6/6/2016	106.04	NM	NM
EW-7B	Lower Gaspur	11/15/2021	104.23	93.90	10.33
EW-7B	Lower Gaspur	12/7/2022	104.23	90.64	13.59
EW-7B	Lower Gaspur	12/14/2022	104.23	89.63	14.60
EW-7B	Lower Gaspur	12/21/2022	104.23	87.78	16.45
EW-7B	Lower Gaspur	12/28/2022	104.23	79.88	24.35

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
EW-7B	Lower Gaspur	6/7/2023	104.23	79.50	24.73
EW-7B	Lower Gaspur	12/6/2023	104.23	84.97	19.26
EW-7B	Lower Gaspur	11/20/2024	104.23	92.20	12.03
EW-8	Lower Gaspur	6/17/2013	104.42	53.90	50.52
EW-8	Lower Gaspur	12/9/2013	104.42	54.27	50.15
EW-8	Lower Gaspur	6/11/2014	104.42	55.14	49.28
EW-8	Lower Gaspur	12/17/2015	104.42	59.67	44.75
EW-8	Lower Gaspur	6/6/2016	104.42	59.46	44.96
EW-8	Lower Gaspur	11/28/2016	104.42	60.63	43.79
EW-8	Lower Gaspur	6/5/2017	104.42	61.22	43.20
EW-8	Lower Gaspur	12/5/2017	104.42	61.85	42.57
EW-8	Lower Gaspur	6/4/2018	104.42	NM	NM
EW-8	Lower Gaspur	6/28/2018	104.42	62.46	41.96
EW-8	Lower Gaspur	12/3/2018	104.42	63.08	41.34
EW-8	Lower Gaspur	6/10/2019	104.42	63.58	40.84
EW-8	Lower Gaspur	12/2/2019	104.42	64.10	40.32
EW-8	Lower Gaspur	6/8/2020	104.42	64.46	39.96
EW-8	Lower Gaspur	11/17/2020	104.42	64.76	39.66
EW-8	Lower Gaspur	5/17/2021	104.42	65.10	39.32
EW-8	Lower Gaspur	11/15/2021	104.42	65.41	39.01
EW-8	Lower Gaspur	6/21/2022	104.42	65.77	38.65
EW-8	Lower Gaspur	12/22/2022	104.42	66.18	38.24
EW-8	Lower Gaspur	5/15/2023	104.42	66.07	38.35
EW-8	Lower Gaspur	11/27/2023	104.42	65.95	38.47
EW-8	Lower Gaspur	5/3/2024	104.42	64.79	39.63
EW-8	Lower Gaspur	11/18/2024	104.42	63.40	41.02
EW-A	Lower Gaspur	6/6/2016	NA	NM	NM
EW-A	Lower Gaspur	12/7/2022	104.18	NM	NM
EW-A	Lower Gaspur	12/14/2022	104.18	NM	NM
EW-A	Lower Gaspur	12/21/2022	104.18	NM	NM
EW-A	Lower Gaspur	12/28/2022	104.18	NM	NM
PTW-2	Shallow Gaspur	11/15/2021	106.60	67.60	39.00
PTW-2	Shallow Gaspur	12/7/2022	106.60	68.53	38.07
PTW-2	Shallow Gaspur	12/14/2022	106.60	68.48	38.12
PTW-2	Shallow Gaspur	12/21/2022	106.60	68.41	38.19
PTW-2	Shallow Gaspur	12/28/2022	106.60	68.12	38.48
PTW-2	Shallow Gaspur	6/7/2023	106.60	68.70	37.90
PTW-2	Shallow Gaspur	12/6/2023	106.60	66.31	40.29
PTW-2	Shallow Gaspur	11/11/2024	106.60	64.00	42.60
PZ-7A	Shallow Gaspur	9/26/2011	105.67	54.54	51.13
PZ-7A	Shallow Gaspur	12/5/2011	105.67	53.78	51.89
PZ-7A	Shallow Gaspur	3/26/2012	105.67	53.31	52.36

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
PZ-7A	Shallow Gaspur	6/7/2012	105.67	53.02	52.65
PZ-7A	Shallow Gaspur	6/12/2012	105.67	53.02	52.65
PZ-7A	Shallow Gaspur	12/10/2012	105.67	53.59	52.08
PZ-7A	Shallow Gaspur	6/17/2013	105.67	54.97	50.70
PZ-7A	Shallow Gaspur	12/9/2013	105.67	55.35	50.32
PZ-7A	Shallow Gaspur	3/27/2014	105.67	55.73	49.94
PZ-7A	Shallow Gaspur	6/11/2014	105.67	56.38	49.29
PZ-7A	Shallow Gaspur	12/15/2014	105.67	57.76	47.91
PZ-7A	Shallow Gaspur	6/8/2015	105.67	58.69	46.98
PZ-7A	Shallow Gaspur	12/7/2015	105.67	60.20	45.47
PZ-7A	Shallow Gaspur	6/6/2016	105.67	60.91	44.76
PZ-7A	Shallow Gaspur	11/28/2016	105.67	62.11	43.56
PZ-7A	Shallow Gaspur	6/5/2017	105.67	62.74	42.93
PZ-7A	Shallow Gaspur	12/4/2017	105.67	63.20	42.47
PZ-7A	Shallow Gaspur	6/4/2018	105.67	63.68	41.99
PZ-7A	Shallow Gaspur	6/28/2018	105.67	63.47	42.20
PZ-7A	Shallow Gaspur	12/3/2018	105.67	64.20	41.47
PZ-7A	Shallow Gaspur	6/10/2019	105.67	65.07	40.60
PZ-7A	Shallow Gaspur	12/2/2019	105.67	65.53	40.14
PZ-7A	Shallow Gaspur	6/8/2020	105.67	65.95	39.72
PZ-7A	Shallow Gaspur	11/17/2020	105.67	66.21	39.46
PZ-7A	Shallow Gaspur	5/17/2021	105.67	66.59	39.08
PZ-7A	Shallow Gaspur	11/15/2021	105.67	65.01	40.66
PZ-7A	Shallow Gaspur	6/21/2022	105.67	67.29	38.38
PZ-7A	Shallow Gaspur	12/22/2022	105.67	67.64	38.03
PZ-7A	Shallow Gaspur	5/15/2023	105.67	67.69	37.98
PZ-7A	Shallow Gaspur	11/27/2023	105.67	67.46	38.21
PZ-7A	Shallow Gaspur	5/3/2024	105.67	66.20	39.47
PZ-7A	Shallow Gaspur	11/18/2024	105.67	64.71	40.96
PZ-7B	Intermediate Gaspur	9/26/2011	105.66	54.54	51.12
PZ-7B	Intermediate Gaspur	12/5/2011	105.66	53.72	51.94
PZ-7B	Intermediate Gaspur	3/26/2012	105.66	53.46	52.20
PZ-7B	Intermediate Gaspur	6/7/2012	105.66	53.04	52.62
PZ-7B	Intermediate Gaspur	6/13/2012	105.66	53.04	52.62
PZ-7B	Intermediate Gaspur	12/10/2012	105.66	53.62	52.04
PZ-7B	Intermediate Gaspur	6/17/2013	105.66	54.75	50.91
PZ-7B	Intermediate Gaspur	12/9/2013	105.66	55.43	50.23
PZ-7B	Intermediate Gaspur	3/27/2014	105.66	55.71	49.95
PZ-7B	Intermediate Gaspur	6/11/2014	105.66	56.45	49.21
PZ-7B	Intermediate Gaspur	12/15/2014	105.66	57.84	47.82
PZ-7B	Intermediate Gaspur	6/8/2015	105.66	58.71	46.95
PZ-7B	Intermediate Gaspur	12/7/2015	105.66	60.23	45.43

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
PZ-7B	Intermediate Gaspur	6/6/2016	105.66	61.07	44.59
PZ-7B	Intermediate Gaspur	11/28/2016	105.66	62.18	43.48
PZ-7B	Intermediate Gaspur	6/5/2017	105.66	62.84	42.82
PZ-7B	Intermediate Gaspur	12/4/2017	105.66	63.80	41.86
PZ-7B	Intermediate Gaspur	6/4/2018	105.66	63.78	41.88
PZ-7B	Intermediate Gaspur	6/28/2018	105.66	64.01	41.65
PZ-7B	Intermediate Gaspur	12/3/2018	105.66	64.63	41.03
PZ-7B	Intermediate Gaspur	6/10/2019	105.66	65.19	40.47
PZ-7B	Intermediate Gaspur	12/2/2019	105.66	65.67	39.99
PZ-7B	Intermediate Gaspur	6/8/2020	105.66	65.88	39.78
PZ-7B	Intermediate Gaspur	11/17/2020	105.66	66.28	39.38
PZ-7B	Intermediate Gaspur	5/17/2021	105.66	66.60	39.06
PZ-7B	Intermediate Gaspur	11/15/2021	105.66	64.92	40.74
PZ-7B	Intermediate Gaspur	6/21/2022	105.66	67.19	38.47
PZ-7B	Intermediate Gaspur	12/22/2022	105.66	67.52	38.14
PZ-7B	Intermediate Gaspur	5/15/2023	105.66	67.62	38.04
PZ-7B	Intermediate Gaspur	11/27/2023	105.66	67.39	38.27
PZ-7B	Intermediate Gaspur	5/3/2024	105.66	66.12	39.54
PZ-7B	Intermediate Gaspur	11/18/2024	105.66	64.77	40.89
SAIA-MW1A	Shallow Gaspur	3/27/2014	104.92	54.50	50.42
SAIA-MW1A	Shallow Gaspur	12/15/2014	104.92	56.56	48.36
SAIA-MW1A	Shallow Gaspur	12/22/2022	104.92	Dry	Dry
SAIA-MW1B	Intermediate Gaspur	3/27/2014	104.76	54.60	50.16
SAIA-MW1B	Intermediate Gaspur	12/15/2014	104.76	56.41	48.35
SAIA-MW1B	Intermediate Gaspur	12/22/2022	104.76	66.43	38.33
SAIA-MW1C	Lower Gaspur	3/27/2014	104.71	54.60	50.11
SAIA-MW1C	Lower Gaspur	12/15/2014	104.71	56.45	48.26
SAIA-MW1C	Lower Gaspur	12/22/2022	104.71	66.71	38.00
SAIA-MW2A	Shallow Gaspur	3/27/2014	104.76	54.50	50.26
SAIA-MW2A	Shallow Gaspur	12/15/2014	104.76	56.45	48.31
SAIA-MW2A	Shallow Gaspur	12/22/2022	104.76	Dry	Dry
SAIA-MW2B	Intermediate Gaspur	3/27/2014	104.75	54.40	50.35
SAIA-MW2B	Intermediate Gaspur	12/15/2014	104.75	56.48	48.27
SAIA-MW2B	Intermediate Gaspur	12/22/2022	104.75	66.49	38.26
SAIA-MW2C	Lower Gaspur	3/27/2014	104.76	54.60	50.16
SAIA-MW2C	Lower Gaspur	12/15/2014	104.76	56.62	48.14
SAIA-MW2C	Lower Gaspur	12/22/2022	104.76	66.52	38.24
SAIA-MW3A	Shallow Gaspur	3/27/2014	102.12	52.31	49.81
SAIA-MW3A	Shallow Gaspur	12/15/2014	102.12	54.46	47.66
SAIA-MW3A	Shallow Gaspur	12/22/2022	102.12	64.12	38.00
SAIA-MW3B	Intermediate Gaspur	3/27/2014	102.10	52.29	49.81
SAIA-MW3B	Intermediate Gaspur	12/15/2014	102.10	54.20	47.90

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
SAIA-MW3B	Intermediate Gaspur	12/22/2022	102.10	64.10	38.00
SAIA-MW3C	Lower Gaspur	3/27/2014	102.12	53.09	49.03
SAIA-MW3C	Lower Gaspur	12/15/2014	102.12	54.10	48.02
SAIA-MW3C	Lower Gaspur	12/22/2022	102.12	65.16	36.96
SAIA-MW4A	Shallow Gaspur	3/27/2014	100.89	51.58	49.31
SAIA-MW4A	Shallow Gaspur	12/15/2014	100.89	54.10	46.79
SAIA-MW4A	Shallow Gaspur	12/22/2022	100.89	63.31	37.58
SAIA-MW4B	Intermediate Gaspur	3/27/2014	101.04	51.54	49.50
SAIA-MW4B	Intermediate Gaspur	12/15/2014	101.04	53.57	47.47
SAIA-MW4B	Intermediate Gaspur	12/22/2022	101.04	63.42	37.62
SAIA-MW4C	Lower Gaspur	3/27/2014	100.86	51.43	49.43
SAIA-MW4C	Lower Gaspur	12/15/2014	100.86	53.39	47.47
SAIA-MW4C	Lower Gaspur	12/22/2022	100.86	63.29	37.57
SAIA-MW5A	Shallow Gaspur	3/27/2014	99.84	50.91	48.93
SAIA-MW5A	Shallow Gaspur	12/15/2014	99.84	52.96	46.88
SAIA-MW5B	Intermediate Gaspur	3/27/2014	99.91	50.98	48.93
SAIA-MW5B	Intermediate Gaspur	12/15/2014	99.91	52.98	46.93
SAIA-MW5C	Lower Gaspur	3/27/2014	99.84	51.06	48.78
SAIA-MW5C	Lower Gaspur	12/15/2014	99.84	53.04	46.80
SAIA-MW6A	Shallow Gaspur	3/27/2014	100.34	51.26	49.08
SAIA-MW6A	Shallow Gaspur	12/15/2014	100.34	53.21	47.13
SAIA-MW6B	Intermediate Gaspur	3/27/2014	100.10	51.18	48.92
SAIA-MW6B	Intermediate Gaspur	12/15/2014	100.10	53.17	46.93
SAIA-MW6C	Lower Gaspur	3/27/2014	100.19	51.21	48.98
SAIA-MW6C	Lower Gaspur	12/15/2014	100.19	53.28	46.91
SAIA-MW7	Exposition	3/27/2014	104.64	59.70	44.94
SAIA-MW7	Exposition	12/15/2014	104.64	62.26	42.38
SAIA-MW7	Exposition	12/22/2022	104.64	72.31	32.33
SAIA-MW8	Exposition	3/27/2014	100.15	55.16	44.99
SAIA-MW8	Exposition	12/15/2014	100.15	NM	NM
JWMW-01	Shallow Gaspur	12/22/2022	108.04	NM	NM
JWMW-02	Shallow Gaspur	12/22/2022	108.60	NM	NM
JWMW-02	Shallow Gaspur	2/24/2023	108.60	NM	NM
JWMW-03	Shallow Gaspur	12/22/2022	107.82	NM	NM
JWMW-04	Shallow Gaspur	12/22/2022	106.67	NM	NM
JWMW-04	Shallow Gaspur	2/24/2023	106.67	66.18	40.49
JWMW-05	Shallow Gaspur	12/22/2022	108.08	66.93	41.15
JWMW-06A	Shallow Gaspur	12/22/2022	112.30	67.51	44.79
JWMW-06B	Intermediate Gaspur	12/22/2022	112.19	68.38	43.81
JWMW-06C	Lower Gaspur	12/22/2022	112.21	69.33	42.88
JWMW-07A	Shallow Gaspur	12/22/2022	111.60	68.99	42.61
JWMW-07B	Intermediate Gaspur	12/22/2022	111.58	68.81	42.77

TABLE 5
OU1 GROUNDWATER ELEVATION 1998 - 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Aquifer Zone	Date Measured	TOC Elevation (NAVD 88)	Depth to Groundwater (ft bTOC)	Groundwater Elevation (NAVD 88)
JWMW-07C	Lower Gaspur	12/22/2022	111.59	72.65	38.94
JWMW-08A	Shallow Gaspur	12/22/2022	105.13	64.49	40.64
JWMW-08B	Intermediate Gaspur	12/22/2022	105.12	65.11	40.01
JWMW-08C	Lower Gaspur/Exposition	12/22/2022	105.15	73.17	31.98
JWMW-09A	Shallow Gaspur	12/22/2022	106.69	NM	NM
JWMW-09A	Shallow Gaspur	2/24/2023	106.69	66.24	40.45
JWMW-09B	Intermediate Gaspur	12/22/2022	106.79	NM	NM
JWMW-09B	Intermediate Gaspur	2/24/2023	106.79	67.34	39.45
JWMW-09C	Lower Gaspur	12/22/2022	106.42	NM	NM
JWMW-09C	Lower Gaspur	2/24/2023	106.42	68.06	38.36
JWMW-10	Exposition	12/22/2022	106.50	NM	NM
JWMW-10	Exposition	2/24/2023	106.50	74.24	32.26
JWMW-11A	Shallow Gaspur	12/22/2022	105.35	66.88	38.47
JWMW-11B	Intermediate Gaspur	12/22/2022	105.54	67.19	38.35
JWMW-11C	Lower Gaspur/Exposition	12/22/2022	105.44	73.37	32.07
JWMW-12	Exposition	12/22/2022	105.46	73.57	31.89
JWMW-13A	Shallow Gaspur	12/22/2022	103.92	65.78	38.14
JWMW-13B	Intermediate Gaspur	12/22/2022	104.02	66.02	38.00
JWMW-13C	Lower Gaspur	12/22/2022	104.05	72.21	31.84

Notes:

1. Monitoring wells installed before 2010 added a conversion factor of 2.05 feet to adjust the top-of-casing (TOC) elevation to the North American Vertical Datum of 1988 (NAVD88). These wells were re-surveyed by Calvada Surveying, Inc. on 6 June 2016.
2. NM = not measured: well was unable to be accessed.
   NA = not available.
3. Measurements collected during this reporting period are shaded in gray.

TABLE 6

VERTICAL GRADIENTS - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Aquifer Zone	Well Pairs	Date	Vertical Distance Between Mid-Point of Screened Intervals (ft)	Groundwater Elevation (ft NAVD88)	Hydraulic Head Difference (ft)	Vertical Gradient (ft/ft)	Vertical Gradient Direction
Monitoring Well Clusters within Gaspur Aquifer							
Shallow Gaspur & Lower Gaspur	MW-23	11/18/2024	26.03	41.09	-0.28	-0.0108	upward
	MW-23B			41.37			
Shallow Gaspur & Intermediate Gaspur	MW-57A	11/18/2024	22.59	41.43	-0.41	-0.0181	upward
	MW-57B			41.84			
Shallow Gaspur & Intermediate Gaspur	MW-2B	11/18/2024	19.97	41.18	-0.21	-0.0105	upward
	MW-2C			41.39			
Shallow Gaspur & Intermediate Gaspur	MW-4	11/18/2024	23.87	41.12	-0.25	-0.0105	upward
	MW-4B			41.37			
Intermediate Gaspur & Lower Gaspur	MW-15	11/18/2024	20.35	40.78	-0.33	-0.0162	upward
	MW-15B			41.11			
Shallow Gaspur & Intermediate Gaspur	MW-20	11/18/2024	22.88	41.31	0.27	0.0118	downward
	MW-20B			41.04			
Intermediate Gaspur & Lower Gaspur	MW-25	11/22/2024	17.70	40.89	0.22	0.0124	downward
	MW-25B			40.67			
Intermediate Gaspur & Lower Gaspur	MW-27	11/18/2024	26.57	40.98	0.09	0.0034	downward
	MW-28			40.89			
Shallow Gaspur & Intermediate Gaspur	MW-29A	11/18/2024	21.50	40.77	0.16	0.0074	downward
	MW-29			40.61			
Intermediate Gaspur & Lower Gaspur	MW-29	11/18/2024	26.36	40.61	-0.14	-0.0053	upward
	MW-30			40.75			
Shallow Gaspur & Intermediate Gaspur	MW-31A	11/18/2024	22.77	Dry	--	--	--
	MW-31			40.75			
Intermediate Gaspur & Lower Gaspur	MW-31	11/18/2024	19.65	40.75	0.07	0.0036	downward
	MW-31B			40.68			

TABLE 6

VERTICAL GRADIENTS - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Aquifer Zone	Well Pairs	Date	Vertical Distance Between Mid-Point of Screened Intervals (ft)	Groundwater Elevation (ft NAVD88)	Hydraulic Head Difference (ft)	Vertical Gradient (ft/ft)	Vertical Gradient Direction
Shallow Gaspur & Lower Gaspur	MW-34	11/18/2024	36.99	40.68	0.00	0.0000	no direction
	MW-35			40.68			
Intermediate Gaspur & Lower Gaspur	MW-36	11/18/2024	22.73	40.76	-0.08	-0.0035	upward
	MW-37			40.84			
Shallow Gaspur & Intermediate Gaspur	MW-38	11/18/2024	21.44	40.56	-0.17	-0.0079	upward
	MW-39			40.73			
Intermediate Gaspur & Lower Gaspur	MW-39	11/18/2024	22.28	40.73	0.03	0.0013	downward
	MW-40			40.70			
Shallow Gaspur & Intermediate Gaspur	MW-42	11/18/2024	21.11	40.75	-0.09	-0.0043	upward
	MW-43			40.84			
Intermediate Gaspur & Lower Gaspur	MW-43	11/18/2024	19.08	40.84	-0.02	-0.0010	upward
	MW-44			40.86			
Shallow Gaspur & Intermediate Gaspur	MW-46	11/18/2024	20.13	40.73	0.06	0.0030	downward
	MW-47			40.67			
Intermediate Gaspur & Lower Gaspur	MW-47	11/18/2024	21.06	40.67	-0.06	-0.0028	upward
	MW-48			40.73			
Shallow Gaspur & Intermediate Gaspur	MW-49	11/18/2024	17.88	40.57	-0.01	-0.0006	upward
	MW-50			40.58			
Intermediate Gaspur & Lower Gaspur	MW-50	11/18/2024	20.01	40.58	0.02	0.0010	downward
	MW-51			40.56			
Shallow Gaspur & Intermediate Gaspur	MW-52	11/18/2024	24.04	40.66	0.07	0.0029	downward
	MW-53			40.59			
Shallow Gaspur & Intermediate Gaspur	MW-52	11/18/2024	39.39	40.66	0.00	0.0000	no direction
	MW-54			40.66			
Shallow Gaspur & Lower Gaspur	MW-60A	11/18/2024	22.05	40.78	-0.08	-0.0036	upward
	MW-60B			40.86			

TABLE 6

VERTICAL GRADIENTS - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Aquifer Zone	Well Pairs	Date	Vertical Distance Between Mid-Point of Screened Intervals (ft)	Groundwater Elevation (ft NAVD88)	Hydraulic Head Difference (ft)	Vertical Gradient (ft/ft)	Vertical Gradient Direction
Shallow Gaspur & Lower Gaspur	MW-61A	11/18/2024	14.50	40.94	-0.10	-0.0069	upward
	MW-61B			41.04			
Shallow Gaspur & Lower Gaspur	MW-62A	11/18/2024	31.00	41.05	0.11	0.0035	downward
	MW-62B			40.94			
Shallow Gaspur & Lower Gaspur	MW-64A	11/18/2024	28.33	39.61	1.36	0.0480	downward
	MW-64B			38.25			
Shallow Gaspur & Intermediate Gaspur	PZ-7A	11/18/2024	18.01	40.96	0.07	0.0039	downward
	PZ-7B			40.89			
Monitoring Well Clusters within Exposition Aquifer							
Lower Gaspur & Exposition	MW-15B	11/18/2024	29.27	41.11	2.17	0.0741	downward
	MW-16R			38.94			
Shallow Gaspur & Exposition	MW-17	11/18/2024	48.30	40.99	2.03	0.0420	downward
	MW-18R			38.96			
Lower Gaspur & Exposition	MW-25B	11/22/2024	26.68	40.67	1.80	0.0675	downward
	MW-26	11/18/2024		38.87			
Lower Gaspur & Exposition	MW-31B	11/18/2024	24.88	40.68	1.82	0.0732	downward
	MW-32			38.86			
Lower Gaspur & Exposition	MW-37	11/18/2024	45.26	40.84	1.82	0.0402	downward
	MW-55R			39.02			

Notes:

Positive vertical gradient = downward gradient direction
Negative vertical gradient = upward gradient direction
-- = Not Available
ft = feet
ft/ft = feet per foot
NAVD88 = North American Vertical Datum of 1988
Vertical gradient measurement based on mid-point of well screens.

TABLE 7

SUMMARY OF WATER QUALITY PARAMETERS - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	Specific Electrical Conductance mS/cm	pH pH units	Turbidity NTU	Temperature Deg C
Upgradient monitoring wells							
MW-19	11/22/2024	0.72	-89.6	4.269	7.39	10	20.6
MW-23	11/20/2024	0.45	-111.8	3.985	7.56	12	22.6
MW-23B	11/20/2024	0.42	-120.1	2.163	7.65	12	23.1
MW-57A	11/22/2024	0.6	-127.9	1.695	7.73	56	20.5
MW-57B	11/22/2024	0.75	-123.6	1.042	7.62	14	20.6
MW-58	11/22/2024	0.68	-110.5	1.758	7.63	22	21.6
MW-63	11/21/2024	0.68	-168.1	1.808	7.71	22	21.5
MW-64A	11/21/2024	0.45	-149.5	2.706	7.26	55	22
MW-64B	11/21/2024	0.58	-173.5	1.788	7.63	11	22.6
Phase 1 Remedial Action Area monitoring wells							
EW-8	11/21/2024	0.6	-102.5	0.218	6.65	12	20.8
MW-1	11/22/2024	0.77	-20.9	2.14	7.65	6	21.2
MW-2B	11/19/2024	2.9	-83.3	2.652	7.36	25	21.8
MW-2C	11/19/2024	3.61	-0.2	0.772	7.12	19	21.9
MW-4	11/19/2024	5.48	68.9	2.658	7.25	14	21.2
MW-4B	11/19/2024	0.55	-158.3	2.305	6.83	6	21.3
MW-15	11/21/2024	0.69	-108.3	2.665	7.35	7	21.8
MW-15B	11/20/2024	0.6	-116.4	2.705	7.38	20	22
MW-17	11/20/2024	0.42	-85.6	3.348	7.6	15	21.1
MW-20	11/21/2024	0.9	-21.7	2.642	7.3	18	21
MW-20B	11/19/2024	0.62	-135.9	2.512	7.06	7	21.9
MW-21	11/22/2024	1.27	30.6	2.889	6.96	69	22.7
MW-22	11/21/2024	1.44	-129.8	3.197	6.9	28	20.4
MW-33B	11/21/2024	0.56	-123.5	2.655	7.62	11	21.2
MW-59B	11/22/2024	0.79	-108.1	3.33	6.93	55	22.8
MW-59C	11/19/2024	2.51	-96.8	1.091	7.31	21	22.4
MW-60A	11/20/2024	4.26	-41.7	2.978	7.27	86	21.8
MW-60B	11/20/2024	0.8	-81.4	4.432	6.96	45	22
MW-61A	11/22/2024	0.65	-113.9	3.13	7.6	10	20
MW-61B	11/22/2024	0.65	-135.6	1.866	7.42	14	20.5
MW-62A	11/20/2024	0.62	-122.6	2.399	6.97	35	22.3
MW-62B	11/20/2024	0.54	-84.8	2.062	6.96	47	22
PZ-7A	11/20/2024	0.59	-125	2.793	6.94	42	23.5
PZ-7B	11/20/2024	0.5	-110.2	2.482	6.93	17	22.5
Phase 2 Remedial Action Area monitoring wells							
MW-24	11/21/2024	7.09	-33.2	1.623	7.19	33	20.9
MW-25	11/22/2024	1.39	-108.3	3.021	6.92	35	20.9
MW-25B	11/22/2024	1.09	-77.1	2.388	6.95	21	19.8
MW-27	11/21/2024	0.83	-77.3	1.757	7	30	21.9

TABLE 7

SUMMARY OF WATER QUALITY PARAMETERS - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	Specific Electrical Conductance mS/cm	pH pH units	Turbidity NTU	Temperature Deg C
MW-28	11/21/2024	0.7	-134.8	2.538	6.98	30	22.2
MW-29	11/22/2024	0.75	-106.3	2.185	6.98	25	21.3
MW-29A	11/22/2024	0.68	-61.6	2.701	6.94	21	22.1
MW-30	11/22/2024	1.12	-95.9	6.097	6.94	27	22.3
MW-36	11/19/2024	8.52	-29.4	2.188	7.46	87	21.4
MW-37	11/19/2024	9.96	-63.1	2.93	7.21	20	20.9
N Southern Ave SAIA monitoring wells							
MW-41	11/21/2024	4.69	-66.4	3.82	7.05	26	21.4
S Southern Ave SAIA monitoring wells							
MW-31	11/21/2024	1.06	-89.8	4.347	6.96	25	22.1
MW-31B	11/21/2024	1.12	-92	5.479	6.93	38	21.5
MW-38	11/19/2024	0.36	-60.5	3.178	7.04	7	21.1
MW-39	11/19/2024	0.68	-135.1	3.933	6.88	17	20.9
MW-40	11/19/2024	0.62	-120.4	5.11	7.03	6	20.7
MW-50	11/19/2024	7.18	-59.7	3.311	7.48	19	21.2
MW-51	11/19/2024	5.15	-63.5	4.306	7.28	18	21.2
MW-53	11/19/2024	0.78	-54.9	0.225	7.44	7	22
MW-54	11/19/2024	0.74	-154.5	2.869	6.64	10	22.6
Exposition aquifer monitoring wells							
MW-16R	11/20/2024	0.46	-199.5	1.416	7.5	7	20.9
MW-18R	11/21/2024	0.56	-188.5	1.57	7.59	7	19.6
MW-26	11/22/2024	4.32	68.9	3.086	6.96	457	19.8
MW-32	11/21/2024	0.76	14.7	3.393	6.97	19	22.2
MW-55R	11/19/2024	1.4	-179.6	1.33	6.9	7	20.9

Notes:

Yellow highlight indicates value is above the outlier value.

DO and ORP outlier values were identified using Minitab Version 21.4.3.
The analysis utilized historical data spanning from June 2012 to November 2024 for each well;
outlier = 1.5 x interquartile range + 3rd quartile value from June 2012 to May 2024 for each well;
outlier = 1.5 x interquartile range + 3rd quartile value.

Abbreviations:

mg/L = milligrams per liter
mV = millivolts
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Units
Deg C = degrees Celsius
>1000 = turbidity reading exceeds calibration
-- = not available

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-1	11/01/1998	Shallow/Intermediate	Primary	MW-1_19981101	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	**0.4 J**	< 1	< 1	NA	NA
MW-1	10/01/2000	Shallow/Intermediate	Primary	MW-1_20001001	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.7**	< 0.5	< 0.5	NA	NA
MW-1	01/01/2004	Shallow/Intermediate	Primary	MW-1_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	NA	NA
MW-1	04/01/2004	Shallow/Intermediate	Primary	MW-1_20040401	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	< 0.5	NA	NA
MW-1	11/01/2004	Shallow/Intermediate	Primary	MW-1_20041101	< 0.5	**0.27 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	**1.7**	NA
MW-1	08/01/2006	Shallow/Intermediate	Primary	MW-1_20060801	< 0.5	**0.39 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	**1.7**	NA
MW-1	03/01/2008	Shallow/Intermediate	Primary	MW-1_20080301	< 0.5	**0.55**	**0.28 J**	< 0.5	< 0.5	< 0.5	**0.22 J**	**2.4**	< 0.5	< 0.5	**1.8 J**	NA
MW-1	05/13/2009	Shallow/Intermediate	Primary	MW-1_20090513	< 0.5	**0.92**	**0.5 J**	< 0.5	< 0.5	< 0.5	**0.33 J**	**3.9 J**	< 0.5	< 0.5	< 2	NA
MW-1	06/14/2011	Shallow/Intermediate	Primary	MW-1-06142011	< 0.5	**1.5**	**2.2**	< 0.5	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	**7.9**	< 0.5
MW-1	12/08/2011	Shallow/Intermediate	Primary	MW-1_20111208	< 0.5	**2.9**	**2.5**	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	**17 J**	< 0.5
MW-1	06/08/2012	Shallow/Intermediate	Primary	MW-1-06082012	< 0.5	**2.5**	**2.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	**13 J**	< 0.5
MW-1	12/12/2012	Shallow/Intermediate	Primary	MW-1-12122012	< 0.5	**3.5**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	**9**	< 0.5
MW-1	06/18/2013	Shallow/Intermediate	Primary	MW-1-061813	< 0.5	**5.6**	**3.2**	**0.59**	**0.7**	< 0.5	**0.3 J**	**1.6**	< 0.2	< 0.5	**9.2**	< 0.3
MW-1	12/12/2013	Shallow/Intermediate	Primary	MW-01-121213	< 0.5	**11**	**4.3**	**0.74**	**0.98**	< 0.5	**0.36 J**	**2**	< 0.2	< 0.5	**12**	< 0.3
MW-1	06/12/2014	Shallow/Intermediate	Primary	MW-01-061214	< 0.5	**9.2**	**3.5**	**0.58**	**0.64**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**12**	< 0.3
MW-1	12/16/2014	Shallow/Intermediate	Primary	MW-1-121614	< 0.5	**6.3**	**2.6**	< 0.3	< 0.4	< 0.5	< 0.2	**0.96**	< 0.2	< 0.5	**11**	< 0.3
MW-1	12/16/2014	Shallow/Intermediate	Duplicate	DUP01-121614	< 0.5	**6.2**	**2.5**	< 0.3	< 0.4	< 0.5	< 0.2	**1**	< 0.2	< 0.5	**11**	< 0.3
MW-1	06/10/2015	Shallow/Intermediate	Primary	MW-01-061015	< 0.5	**11**	**3.6**	**0.51**	**0.57**	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	**12**	< 0.3
MW-1	12/10/2015	Shallow/Intermediate	Primary	MW-01-121015	< 0.5	**8**	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.86**	< 0.2	< 0.5	**8.2**	< 0.3
MW-1	06/07/2016	Shallow/Intermediate	Primary	MW-01-060716	< 0.5	**8.2**	**3.5**	**0.75**	**0.4 J**	< 0.5	< 0.2	**0.93**	< 0.2	< 0.5	**10**	< 0.3
MW-1	12/02/2016	Shallow/Intermediate	Primary	MW-01-120216	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**6.7**	< 0.3
MW-1	06/06/2017	Shallow/Intermediate	Primary	MW-01-060617	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**8.4**	< 0.3
MW-1	12/07/2017	Shallow/Intermediate	Primary	MW-01-120717	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.9**	< 0.3
MW-1	06/04/2018	Shallow/Intermediate	Primary	MW-01-060418	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-1	06/04/2018	Shallow/Intermediate	Duplicate	QC04-060418	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.5 J**	< 0.3
MW-1	12/07/2018	Shallow/Intermediate	Primary	MW-01-120718	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-1	06/14/2019	Shallow/Intermediate	Primary	MW-1-061419	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**1.2 J**	< 0.2
MW-1	06/14/2019	Shallow/Intermediate	Duplicate	QC19-061419	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**1.4 J**	< 0.2
MW-1	12/06/2019	Shallow/Intermediate	Primary	MW-1-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-1	11/19/2020	Shallow/Intermediate	Primary	MW-01-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-1	11/19/2021	Shallow/Intermediate	Primary	MW-1-111921	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-1	12/15/2022	Shallow/Intermediate	Primary	MW-1-121522	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-1	11/29/2023	Shallow/Intermediate	Primary	MW-01-112923	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-1	11/22/2024	Shallow/Intermediate	Primary	MW-01-112224	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.005
MW-2A	06/13/2011	Shallow Gaspur	Primary	MW-2A-06132011	< 2	**170**	**350**	**7.3**	**14**	**4.6**	**41**	**6.4**	**2.8**	**5**	**32**	< 2
MW-2A	09/26/2011	Shallow Gaspur	Primary	MW-2A 09262011	< 0.5	**150**	**260**	**6**	**14 J**	**29 J**	**35**	**9.2**	**3.2**	< 0.5	**13 J**	< 0.5
MW-2A	09/26/2011	Shallow Gaspur	Duplicate	DUP-09262011	< 2.5	**120**	**240**	**4.3**	**10 J**	**18 J**	**28**	**7.1**	< 2.5	< 2.5	**44 J**	< 2.5
MW-2A	12/07/2011	Shallow Gaspur	Primary	MW-2A_20111207	< 2	**84**	**260**	**3.8**	**14**	**39**	**53**	**11**	**3.5**	**5.4**	**42 J**	< 2
MW-2A	03/28/2012	Shallow Gaspur	Primary	MW-2A-03282012	< 0.5	**100**	**240**	**3.9**	**17**	**63**	**57**	**14**	**4.5**	< 0.5	**49**	< 0.5
MW-2A	06/13/2012	Shallow Gaspur	Primary	MW2A-061312	< 2	**93**	**240**	**2.8**	**16**	**65**	**59**	**16**	**5.4**	**5.4**	**83**	< 2
MW-2A	12/14/2012	Shallow Gaspur	Primary	MW-2A-12142012	< 0.5	**56**	**230**	**3.8**	**13**	**61**	**46**	**9.9**	**4.2**	< 0.5	**52 J**	< 0.5
MW-2A	06/20/2013	Shallow Gaspur	Primary	MW-2A-062013	< 0.5	**52**	**380**	**5.6**	**15**	**30**	**37**	**5.5**	**2.6**	**3.7**	**20**	< 0.3
MW-2A	12/13/2013	Shallow Gaspur	Primary	MW-2A-121313	< 5	**46**	**320**	< 3	**15**	**37**	**29**	**7.3**	< 2	< 5	**16**	< 3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-2A	06/12/2014	Shallow Gaspur	Primary	MW-02A-061214	< 1	**38**	**230**	**4.4**	**9.4**	**11**	**15**	**2**	**1.8**	< 1	**11**	< 0.6
MW-2A	12/18/2014	Shallow Gaspur	Primary	MW-02A-121814	< 1	**29**	**190**	**4.3**	**8.8**	**8.9**	**12**	**1.1**	**1.6**	< 1	**9.1**	< 0.6
MW-2A	06/08/2015	Shallow Gaspur	Primary	MW-02A-060915	< 0.5	**35**	**150**	**4**	**8.4**	**6.4**	**11**	**1.2**	**1.9**	**2.9**	**6.3**	< 0.3
MW-2A	12/11/2015	Shallow Gaspur	Primary	MW-02A-121115	< 0.5	**29**	**310**	**6.3**	**14**	**12**	**18**	**1.7**	**2.9**	**3.4**	**6.6**	< 0.3
MW-2A	06/08/2016	Shallow Gaspur	Primary	MW-02A-060816	< 0.5	**49**	**190**	**7.9**	**11**	**4.3**	**12**	**1.2**	**4**	< 0.5	**4.6**	< 0.3
MW-2B	06/13/2011	Shallow Gaspur	Primary	MW-2B-06132011	< 0.5	**12**	**20**	**2.9**	**0.99**	**1.2**	**2.5**	**0.68**	**2.1**	< 0.5	**13**	< 0.5
MW-2B	09/26/2011	Shallow Gaspur	Primary	MW-2B 09262011	< 0.5	**11**	**27**	**1.6**	**0.89**	**1.4**	**3.3**	**1**	**1.3**	< 0.5	**14**	< 0.5
MW-2B	12/08/2011	Shallow Gaspur	Primary	MW-2B_20111208	< 0.5	**17**	**27**	**1.6**	**1.2**	**2.9**	**3.5**	**1.3**	**1.7**	< 0.5	**15 J**	< 0.5
MW-2B	03/27/2012	Shallow Gaspur	Primary	MW-2B-03272012	< 0.5	**12**	**35**	**2.1**	**1.6**	**4.1**	**4.1**	**1.5**	**1.7**	< 0.5	**16 J**	< 0.5
MW-2B	06/13/2012	Shallow Gaspur	Primary	MW2B-061312	< 0.5	**1.5**	**33**	**2.2**	**1**	**4.2**	**3.5**	**1.5**	**1.8**	< 0.5	**19**	< 0.5
MW-2B	12/14/2012	Shallow Gaspur	Primary	MW-2B-12142012	< 0.5	**4.9**	**26**	**2.3**	**0.95**	**1.8**	**2.9**	**0.91**	**2.4**	< 0.5	**17**	< 0.5
MW-2B	06/20/2013	Shallow Gaspur	Primary	MW-2B-062013	< 0.5	**1.1**	**6.8**	**2.5**	**0.4 J**	**0.78**	**0.7**	< 0.3	**4.2**	< 0.5	**11**	< 0.3
MW-2B	12/13/2013	Shallow Gaspur	Primary	MW-2B-121313	< 0.5	**0.93**	**5.3**	**2.7**	< 0.4	< 0.5	< 0.2	< 0.3	**2.1**	< 0.5	**15**	< 0.3
MW-2B	12/13/2013	Shallow Gaspur	Duplicate	DUP7-121313	< 0.5	**0.84**	**4.4**	**2.5**	< 0.4	< 0.5	< 0.2	< 0.3	**2.3**	< 0.5	**15**	< 0.3
MW-2B	06/12/2014	Shallow Gaspur	Primary	MW-02B-061214	< 0.5	**0.42 J**	**3.1**	**2.7**	< 0.4	< 0.5	**0.34 J**	< 0.3	**2.3**	< 0.5	**15**	< 0.3
MW-2B	12/18/2014	Shallow Gaspur	Primary	MW-02B-121814	< 0.5	**1.1**	**19**	**2.9**	**0.8**	**0.66**	**1.3**	< 0.3	**2.4**	< 0.5	**15**	< 0.3
MW-2B	06/09/2015	Shallow Gaspur	Primary	MW-02B-060915	< 0.5	**0.61 J**	**11**	**4.6**	**0.52**	**2.2**	**1.2**	**0.53**	**3.2**	< 0.5	**18**	< 0.3
MW-2B	06/09/2015	Shallow Gaspur	Duplicate	DUP03-060915	< 0.5	**0.93 J**	**9.3**	**3.8**	**0.42 J**	**1.8**	**1**	**0.43 J**	**2.6**	< 0.5	**18**	< 0.3
MW-2B	12/11/2015	Shallow Gaspur	Primary	MW-02B-121115	< 0.5	**0.57**	**16**	**3.9**	**0.58**	**1.6**	**1.2**	< 0.3	**4.5**	< 0.5	**13**	< 0.3
MW-2B	06/09/2016	Shallow Gaspur	Primary	MW-02B-060916	< 0.5	**0.58**	**9.7**	**5**	**0.49 J**	**2.1**	**0.92**	**0.41 J**	**5.4**	< 0.5	**9.4**	< 0.3
MW-2B	12/01/2016	Shallow Gaspur	Primary	MW-02B-120116	< 0.5	**0.44 J**	**7.7**	**2.8**	< 0.4	**2**	**0.66**	< 0.3	**4.5**	< 0.5	**12**	< 0.3
MW-2B	12/01/2016	Shallow Gaspur	Duplicate	QC01-120116	< 0.5	**0.39 J**	**8.1**	**3.1**	**0.55**	**2.2**	**0.78**	< 0.3	**4.8**	< 0.5	**11**	< 0.3
MW-2B	06/06/2017	Shallow Gaspur	Primary	MW-02B-060617	< 0.5	< 0.2	**0.88**	**1**	< 0.4	< 0.5	< 0.2	< 0.3	**0.93**	< 0.5	**1.2 J**	< 0.3
MW-2B	12/07/2017	Shallow Gaspur	Primary	MW-02B-120717	< 0.5	< 0.2	**7.2**	**1.9**	**0.54**	**2.5**	**0.57**	< 0.3	**5.2**	< 0.5	**8**	< 0.3
MW-2B	06/06/2018	Shallow Gaspur	Primary	MW-2B-060618	< 0.5	< 0.2	**4.4 J**	**0.86**	< 0.4	< 0.5	< 0.2	< 0.3	**8.8 J**	< 0.5	**1.4 J**	< 0.3
MW-2B	06/06/2018	Shallow Gaspur	Duplicate	QC11-060618	< 0.5	< 0.2	< 0.2 J	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2 J	< 0.5	< 1	< 0.3
MW-2B	12/06/2018	Shallow Gaspur	Primary	MW-02B-120618	< 0.5	< 0.2	**6.1**	**1.8 J**	< 0.4	**1.1**	< 0.2	< 0.3	**3.8**	< 0.5	**7**	< 0.3
MW-2B	12/06/2018	Shallow Gaspur	Duplicate	QC15-120618	< 0.5	< 0.2	**6**	**1.7 J**	< 0.4	**1.1**	**0.35 J**	< 0.3	**3.7**	< 0.5	**7.1**	< 0.3
MW-2B	06/14/2019	Shallow Gaspur	Primary	MW-2B-061419	< 0.5	**2.5**	**18**	**0.88**	**0.81**	**0.56**	< 0.2	< 0.2	**8**	< 0.3	**1.7 J**	< 0.2
MW-2B	12/06/2019	Shallow Gaspur	Primary	MW-2B-120619	< 0.5	**1.1**	**11**	**1.1**	**0.3 J**	< 0.4	**0.34 J**	< 0.2	**3.4**	< 0.3	**5.6**	< 0.2
MW-2B	06/09/2020	Shallow Gaspur	Primary	MW-02B-060920	< 0.5	**0.49 J**	**8.2**	**0.45 J**	< 0.5	< 0.5	**0.69**	< 0.5	**2.6**	< 0.5	**3.8**	< 0.5
MW-2B	06/09/2020	Shallow Gaspur	Duplicate	QC04-060920	< 0.5	**0.44 J**	**8.1**	**0.46 J**	< 0.5	< 0.5	**0.67**	< 0.5	**2.5**	< 0.5	**1.9 J**	< 0.5
MW-2B	11/19/2020	Shallow Gaspur	Primary	MW-02B-111920	< 0.5	**1.2**	**11**	**0.88**	**0.62**	< 0.5	**0.46 J**	< 0.5	**14**	< 0.5	**1.6 J**	< 0.5
MW-2B	05/18/2021	Shallow Gaspur	Primary	MW-02B-051821	< 0.5	**0.55**	**11**	**0.89**	< 0.5	< 0.5	< 0.5	< 0.5	**16**	< 0.5	**7.9**	< 0.5
MW-2B	05/18/2021	Shallow Gaspur	Duplicate	QC07-051821	< 0.5	**0.59**	**10**	**0.86**	< 0.5	< 0.5	**0.35 J**	< 0.5	**16**	< 0.5	**7.8**	< 0.5
MW-2B	11/19/2021	Shallow Gaspur	Primary	MW-2B-111921	< 0.5 J	< 0.5 J	**5.4**	**1.7**	< 0.5	< 0.5	< 0.5	**0.2 J**	**3**	< 0.5	**14**	**0.36 J**
MW-2B	06/23/2022	Shallow Gaspur	Primary	MW-2B-062322	< 0.5	< 0.5	**3.9**	**1.2**	< 0.5	< 0.5	< 0.5	**0.25 J**	**0.87**	< 0.5	**19**	< 0.005
MW-2B	06/23/2022	Shallow Gaspur	Duplicate	QC13-062322	< 0.5	< 0.5	**4**	**1.4**	< 0.5	< 0.5	< 0.5	**0.31 J**	**0.88**	< 0.5	**20**	< 0.005
MW-2B	12/15/2022	Shallow Gaspur	Primary	MW-2B-121522	< 0.5	**0.46 J**	**5.2**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	**7.8**	< 0.005
MW-2B	05/18/2023	Shallow Gaspur	Primary	MW-02B-051823	< 0.5	< 0.5	**4.2**	**0.68**	< 0.5	< 0.5	< 0.5	< 0.5	**0.95**	< 0.5	**15 J**	< 0.005
MW-2B	11/29/2023	Shallow Gaspur	Primary	MW-02B-112923	< 0.5	< 0.5	**4.7**	**0.68**	< 0.5	< 0.5	< 0.5	**0.43 J**	**1.6**	< 0.5	**9.6 J**	< 0.005
MW-2B	05/06/2024	Shallow Gaspur	Primary	MW-2B-050624	< 0.5	< 0.5	**4**	< 0.5	< 0.5	< 0.5	< 0.5	**0.35 J**	**3**	< 0.5	**6**	< 0.005
MW-2B	11/19/2024	Shallow Gaspur	Primary	MW-2B-111924	< 0.5	**0.45 J**	**9.4**	< 0.5	**0.34 J**	< 0.5	< 0.5	**0.28 J**	**11**	< 0.5	**4.4**	**0.13**

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-2C	06/13/2011	Intermediate Gaspur	Primary	MW-2C-06132011	< 0.5	**1.1**	**2.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 4	< 0.5
MW-2C	09/27/2011	Intermediate Gaspur	Primary	MW-2C-09272011	< 0.5	**4.7**	**4.1**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-2C	12/08/2011	Intermediate Gaspur	Primary	MW-2C_20111208	< 0.5	**0.75**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-2C	03/26/2012	Intermediate Gaspur	Primary	MW-2C-03262012	< 0.5	**0.89**	**1.7**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-2C	06/13/2012	Intermediate Gaspur	Primary	MW-2C-061312	< 0.5	**0.81**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 1	< 0.5
MW-2C	12/13/2012	Intermediate Gaspur	Primary	MW-2C-12132012	< 0.5	< 0.5	**1.9**	< 0.5	< 0.5	< 0.5	< 0.5	**1.9**	< 0.5	< 0.5	< 0.95	< 0.5
MW-2C	06/20/2013	Intermediate Gaspur	Primary	MW-2C-062013	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/13/2013	Intermediate Gaspur	Primary	MW-2C-121313	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/12/2014	Intermediate Gaspur	Primary	MW-02C-061214	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	**1.1 J**	< 0.3
MW-2C	12/18/2014	Intermediate Gaspur	Primary	MW-02C-121814	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/09/2015	Intermediate Gaspur	Primary	MW-02C-060915	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/11/2015	Intermediate Gaspur	Primary	MW-02C-121115	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/11/2015	Intermediate Gaspur	Duplicate	DUP01-121115	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/09/2016	Intermediate Gaspur	Primary	MW-02C-060916	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/01/2016	Intermediate Gaspur	Primary	MW-02C-120116	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	**1 J**	< 0.3
MW-2C	06/06/2017	Intermediate Gaspur	Primary	MW-02C-060617	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/07/2017	Intermediate Gaspur	Primary	MW-02C-120717	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	**1.4 J**	< 0.3
MW-2C	06/06/2018	Intermediate Gaspur	Primary	MW-2C-060618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/06/2018	Intermediate Gaspur	Primary	MW-02C-120618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/14/2019	Intermediate Gaspur	Primary	MW-2C-061419	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-2C	12/06/2019	Intermediate Gaspur	Primary	MW-2C-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**1.5**	< 0.4	< 0.3	**1.6 J**	< 0.2
MW-2C	12/06/2019	Intermediate Gaspur	Duplicate	QC21-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**1.4**	< 0.4	< 0.3	**1.6 J**	< 0.2
MW-2C	06/09/2020	Intermediate Gaspur	Primary	MW-02C-060920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-2C	11/19/2020	Intermediate Gaspur	Primary	MW-02C-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-2C	11/19/2021	Intermediate Gaspur	Primary	MW-2C-111921	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3 J+**	< 0.5	< 0.5	**1.3 J**	< 0.5 J
MW-2C	06/23/2022	Intermediate Gaspur	Primary	MW-2C-062322	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5	< 0.5	**1.8 J**	**0.0013 J**
MW-2C	12/19/2022	Intermediate Gaspur	Primary	MW-2C-121922	< 0.5	< 0.5	**3**	< 0.5	< 0.5	< 0.5	< 0.5	**0.45 J**	< 0.5	< 0.5	**1 J**	< 0.005
MW-2C	05/17/2023	Intermediate Gaspur	Primary	MW-02C-051723	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.88**	< 0.5	< 0.5	**11**	< 0.005
MW-2C	11/29/2023	Intermediate Gaspur	Primary	MW-02C-112923	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	**1.1 J**	< 0.005
MW-2C	05/06/2024	Intermediate Gaspur	Primary	MW-2C-050624	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.71**	< 0.5	< 0.5	**1**	< 0.005
MW-2C	11/19/2024	Intermediate Gaspur	Primary	MW-2C-111924	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-4	11/01/1998	Shallow/Intermediate	Primary	MW-4_19981101	< 1	**8**	**14**	**2**	**0.9 J**	**0.9**	**1**	**0.5**	< 1	< 1	NA	NA
MW-4	10/01/2000	Shallow/Intermediate	Primary	MW-4_20001001	< 0.5	**6**	**15**	**2**	**1**	**1**	**4**	**1**	< 0.5	**0.3 J**	NA	NA
MW-4	03/01/2003	Shallow/Intermediate	Primary	MW-4_20030301	< 1	**12**	**38**	**7**	**2**	**2**	**8**	**3**	< 1	< 1	NA	NA
MW-4	01/01/2004	Shallow/Intermediate	Primary	MW-4_20040101	< 0.5	**6.8**	**23**	**2.6**	**0.93**	**0.86**	**3.7**	**1.3**	**0.23 J**	< 0.5	NA	NA
MW-4	11/01/2004	Shallow/Intermediate	Primary	MW-4_20041101	< 0.5	**15**	**30 D**	**6.8**	**3**	**5**	**8.4**	< 0.5	**0.42 J**	< 0.5	**12**	NA
MW-4	08/01/2006	Shallow/Intermediate	Primary	MW-4_20060801	< 0.5	**11**	**24 D**	**3.7**	**2**	**1.3**	**8.8**	**2.8**	< 0.5	**0.67**	**15**	NA
MW-4	03/01/2008	Shallow/Intermediate	Primary	MW-4_20080301	< 0.5	**8.4**	**19 D**	**2.8**	**1.8**	**1.5**	**8.5**	**3.6**	**0.33 J**	< 0.5	**15**	NA
MW-4	05/13/2009	Shallow/Intermediate	Primary	MW-4_20090513	< 0.5	**9.5**	**20**	**2.6**	**1.4**	< 0.5	**9.4**	**4.5**	**0.31 J**	**0.41 J**	**13**	NA
MW-4	06/15/2011	Shallow/Intermediate	Primary	MW-4-06152011	< 0.5	**6.7**	**17**	**1.9**	**1.4**	**1**	**17**	**6.2**	< 0.5	< 0.5	**35**	< 0.5
MW-4	12/08/2011	Shallow/Intermediate	Primary	MW-4_20111208	< 0.5	**8.3**	**14**	**1.5**	**1.2**	**1**	**17**	**6**	< 0.5	< 0.5	**26**	< 0.5
MW-4	06/07/2012	Shallow/Intermediate	Primary	MW-4-06072012	< 0.5	**7.9**	**13**	**1.8**	**1.2**	**0.93**	**17**	**5.1**	< 0.5	< 0.5	**19 J**	< 0.5
MW-4	12/11/2012	Shallow/Intermediate	Primary	MW-4-12112012	< 0.5	**5.3**	**10**	**0.78**	**0.82**	< 0.5	**14**	**5.4**	< 0.5	< 0.5	**40 J**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-4	06/17/2013	Shallow/Intermediate	Primary	MW-4-061713	< 0.5	**1.6**	**7.4**	**0.42 J**	**0.53**	< 0.5	**11**	**2.4**	< 0.2	< 0.5	**29**	< 0.3
MW-4	12/12/2013	Shallow/Intermediate	Primary	MW-04-121213	< 0.5	**0.4 J**	**2.5**	< 0.3	< 0.4	< 0.5	**1**	< 0.3	< 0.2	< 0.5	**29**	< 0.3
MW-4	06/12/2014	Shallow/Intermediate	Primary	MW-04-061214	< 0.5	**0.31 J**	**2.2**	< 0.3	< 0.4	< 0.5	**1.2**	**0.57**	< 0.2	< 0.5	**31**	< 0.3
MW-4	12/19/2014	Shallow/Intermediate	Primary	MW-04-121914	< 0.5	**0.38 J**	**2.6**	< 0.3	< 0.4	< 0.5	**2**	**0.6**	< 0.2	< 0.5	**29**	< 0.3
MW-4	06/11/2015	Shallow/Intermediate	Primary	MW-04-061115	< 0.5	**0.52**	**2.3**	< 0.3	< 0.4	< 0.5	**2.4**	**1 J**	< 0.2	< 0.5	**31**	< 0.3
MW-4	12/07/2015	Shallow/Intermediate	Primary	MW-04-120715	< 0.5	**0.39 J**	**5.5**	**0.55**	< 0.4	< 0.5	**3.1**	**0.77**	< 0.2	< 0.5	**16**	< 0.3
MW-4	06/10/2016	Shallow/Intermediate	Primary	MW-04-061016	< 0.5	< 0.2	**5.6**	< 0.3	< 0.4	< 0.5	**3.5**	**0.84**	< 0.2	< 0.5	**15**	< 0.3
MW-4	12/02/2016	Shallow/Intermediate	Primary	MW-04-120216	< 0.5	**0.46 J**	**10**	**0.72**	**0.91**	**0.56**	**6.8**	**1.9**	< 0.2	< 0.5	**23**	< 0.3
MW-4	06/06/2017	Shallow/Intermediate	Primary	MW-04-060617	< 0.5	**0.4 J**	**8.9**	**1**	**0.7**	**0.91**	**6.5**	**1.4**	< 0.2	< 0.5	**23**	< 0.3
MW-4	06/06/2017	Shallow/Intermediate	Duplicate	QC02-060617	< 0.5	**0.36 J**	**9.4**	**0.96**	**0.64**	**1.1**	**6.5**	**1.4**	< 0.2	< 0.5	**23**	< 0.3
MW-4	12/08/2017	Shallow/Intermediate	Primary	MW-4-120817	< 0.5	**0.41 J**	**9.6**	**0.66**	**0.57**	< 0.5	**4.4**	**1.9**	< 0.2	< 0.5	**13**	< 0.3
MW-4	06/05/2018	Shallow/Intermediate	Primary	MW-4-060518	< 0.5	**0.58**	**12**	< 0.3	**0.73**	< 0.5	**5.2**	**2**	< 0.2	< 0.5	**8.2**	< 0.3
MW-4	12/07/2018	Shallow/Intermediate	Primary	MW-04-120718	< 0.5	**0.55**	**8.7**	**0.45 J**	**0.55**	< 0.5	**2.5**	**1.1**	< 0.2	< 0.5	**8.6**	< 0.3
MW-4	06/13/2019	Shallow/Intermediate	Primary	MW-04-061319	< 0.5	**1**	**10**	< 0.4	**0.9**	< 0.4	**1.2**	**1.8**	< 0.4	< 0.3	**3.2**	< 0.2
MW-4	12/04/2019	Shallow/Intermediate	Primary	MW-4-120419	< 0.5	**1.6**	**11**	< 0.4	**1.3**	< 0.4	**0.79**	**1.9**	< 0.4	< 0.3	**2.9**	< 0.2
MW-4	06/12/2020	Shallow/Intermediate	Primary	MW-4-061220	< 0.5	**2.7**	**11**	< 0.5	**1.7**	< 0.5	**0.58**	**2.8 J**	< 0.5	< 0.5	**1.5 J**	< 0.5
MW-4	11/19/2020	Shallow/Intermediate	Primary	MW-04-111920	< 0.5	**2.4**	**14**	< 0.5	**2.4**	< 0.5	**0.42 J**	**2.4**	< 0.5	< 0.5	**1.2 J**	< 0.5
MW-4	05/18/2021	Shallow/Intermediate	Primary	MW-04-051821	< 0.5	**1.3**	**9.5**	< 0.5	**1.5**	< 0.5	**0.22 J**	**2.3**	< 0.5	< 0.5	**0.79 J**	< 0.5
MW-4	05/18/2021	Shallow/Intermediate	Duplicate	QC09-051821	< 0.5	**1.4**	**10**	< 0.5	**1.5**	< 0.5	**0.22 J**	**2.2**	< 0.5	< 0.5	**0.89 J**	< 0.5
MW-4	11/18/2021	Shallow/Intermediate	Primary	MW-4-111821	< 0.5 J	**0.96 J**	**9.9**	< 0.5	**1.6**	**0.41 J**	< 0.5	**1.6**	< 0.5	< 0.5	< 2	< 0.5 J
MW-4	06/24/2022	Shallow/Intermediate	Primary	MW-4-062422	< 0.5	**1.3**	**10**	< 0.5	**1.9**	**0.88**	< 0.5	**1.7**	< 0.5	< 0.5	**0.72 J**	**0.0014 J**
MW-4	12/15/2022	Shallow/Intermediate	Primary	MW-4-121522	< 0.5	**1.1**	**13**	< 0.5	**2.1**	**0.78**	< 0.5	**1.6**	< 0.5	< 0.5	**0.76 J**	< 0.005
MW-4	05/19/2023	Shallow/Intermediate	Primary	MW-04-051923	< 0.5	< 0.99	**61**	< 0.5	**21**	**6.6**	< 0.5	**3.2**	**4.9**	< 0.5	**1.4 J**	< 0.005
MW-4	11/30/2023	Shallow/Intermediate	Primary	MW-04-113023	< 0.5	**2.4**	**89**	< 0.5	**36**	**14**	< 0.5	**4.4**	**6.2**	< 0.5	**2.6**	< 0.01
MW-4	05/09/2024	Shallow/Intermediate	Primary	MW-04-050924	< 0.5	**1.1**	**13**	< 0.5	**2.4**	**0.42 J**	< 0.5	**1.7**	< 0.5	< 0.5	**0.8 J**	< 0.005
MW-4	11/19/2024	Shallow/Intermediate	Primary	MW-4-111924	< 0.5	**0.96**	**15**	< 0.5	**2.8**	**0.66**	< 0.5	**2.1**	< 0.5	< 0.5	< 1	< 0.005
MW-4B	06/14/2011	Intermediate Gaspur	Primary	MW-4B-06142011	< 0.5	**1.9**	**4.2**	< 0.5	**1**	< 0.5	< 0.5	**3.9**	< 0.5	< 0.5	< 3.6	< 0.5
MW-4B	09/26/2011	Intermediate Gaspur	Primary	MW-4B 09262011	< 0.5	**2.6**	**6.3**	< 0.5	**2**	< 0.5	< 0.5	**4.8**	**0.84**	< 0.5	< 0.94 J	< 0.5
MW-4B	12/06/2011	Intermediate Gaspur	Primary	MW-4B_20111206	< 0.5	**1.8**	**5.5**	< 0.5	**1.4**	< 0.5	< 0.5	**4.7**	< 0.5	< 0.5	< 0.95	< 0.5
MW-4B	12/06/2011	Intermediate Gaspur	Duplicate	DUP2-12062011	< 0.5	**2**	**5.7**	< 0.5	**1.5**	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	< 0.95	< 0.5
MW-4B	03/26/2012	Intermediate Gaspur	Primary	MW-4B-03262012	< 0.5	**1.2**	**8.4**	< 0.5	**2.3**	< 0.5	< 0.5	**5.7**	**0.66**	< 0.5	< 0.94 J	< 0.5
MW-4B	06/07/2012	Intermediate Gaspur	Primary	MW-4B-06072012	< 0.5	**0.84**	**5.5**	< 0.5	**1.2**	< 0.5	< 0.5	**4.3**	< 0.5	< 0.5	< 0.94	< 0.5
MW-4B	12/12/2012	Intermediate Gaspur	Primary	MW-4B-12122012	< 0.5	**0.56**	**9.4**	< 0.5	**2.6**	< 0.5	< 0.5	**4.5**	**0.73**	< 0.5	< 0.95	< 0.5
MW-4B	06/20/2013	Intermediate Gaspur	Primary	MW-4B-062013	< 0.5	< 0.2	**12**	< 0.3	**4**	< 0.5	< 0.2	**4.1**	**1.1**	< 0.5	**1 J**	< 0.3
MW-4B	12/12/2013	Intermediate Gaspur	Primary	MW-4B-121213	< 0.5	**0.38 J**	**28**	< 0.3	**7.9**	< 0.5	< 0.2	**3.3**	**4.2**	< 0.5	< 1	< 0.3
MW-4B	06/12/2014	Intermediate Gaspur	Primary	MW-04B-061214	< 0.5	**1.4**	**33**	< 0.3	**9**	< 0.5	< 0.2	**2.6**	**5.6**	< 0.5	**1.1 J**	< 0.3
MW-4B	12/19/2014	Intermediate Gaspur	Primary	MW-04B-121914	< 0.5	**1.4**	**26**	< 0.3	**7**	< 0.5	< 0.2	**1.4**	**5.2**	< 0.5	< 1	< 0.3
MW-4B	06/11/2015	Intermediate Gaspur	Primary	MW-04B-061115	< 0.5	**1.6**	**31**	< 0.3	**9.1**	**0.87**	< 0.2	**3.1 J**	**7.8**	< 0.5	< 1	< 0.3
MW-4B	12/07/2015	Intermediate Gaspur	Primary	MW-04B-120715	< 0.5	**1.2**	**32**	< 0.3	**9.7**	**2.3**	< 0.2	**2.2**	**7.1**	< 0.5	< 1	< 0.3
MW-4B	06/10/2016	Intermediate Gaspur	Primary	MW-04B-061016	< 0.5	**1.2**	**36**	< 0.3	**11**	**1.6**	< 0.2	**2.7**	**6.2**	< 0.5	< 1	< 0.3
MW-4B	06/10/2016	Intermediate Gaspur	Duplicate	QC17-061016	< 0.5	**1.1**	**39**	< 0.3	**12**	**1.6**	< 0.2	**3.6**	**6.8**	< 0.5	< 1	< 0.3
MW-4B	12/02/2016	Intermediate Gaspur	Primary	MW-4B-120216	< 0.5	**1.3**	**45**	< 0.3	**14**	**2.3**	< 0.2	**3.7**	**5.7**	< 0.5	< 1	< 0.3
MW-4B	06/08/2017	Intermediate Gaspur	Primary	MW-04B-060817	< 0.5	**0.52**	**8.8**	< 0.3	**2.8**	**0.91**	< 0.2	**1.8**	**1.6**	< 0.5	< 1	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-4B	12/08/2017	Intermediate Gaspur	Primary	MW-4B-120817	< 0.5	**1.4**	**39**	< 0.3	**14**	**2.8**	< 0.2	**3.5**	**5.3**	< 0.5	< 1	< 0.3
MW-4B	06/04/2018	Intermediate Gaspur	Primary	MW-4B-060418	< 0.5	**1.2**	**37**	< 0.3	**17**	**5**	< 0.2	**4.2**	**6.7**	< 0.5	< 1	< 0.3
MW-4B	12/07/2018	Intermediate Gaspur	Primary	MW-04B-120718	< 0.5	**1.1**	**53**	< 0.3	**20**	**3.4**	< 0.2	**3.5**	**4.8**	< 0.5	< 1	< 0.3
MW-4B	06/13/2019	Intermediate Gaspur	Primary	MW-4B-061319	< 0.5	**1.1**	**55**	< 0.4	**24**	**8**	< 0.2	**4.6**	**6.6**	< 0.3	< 1	< 0.2
MW-4B	06/13/2019	Intermediate Gaspur	Duplicate	QC15-061319	< 0.5	**1**	**55**	< 0.4	**25**	**7.8**	< 0.2	**4.7**	**6.6**	< 0.3	< 1	< 0.2
MW-4B	12/06/2019	Intermediate Gaspur	Primary	MW-4B-120619	< 0.5	**1.2**	**48**	< 0.4	**25**	**17**	< 0.2	**4.9**	**6.9**	< 0.3	**1.1 J**	< 0.2
MW-4B	06/09/2020	Intermediate Gaspur	Primary	MW-04B-060920	< 0.5	< 0.5	**1**	< 0.5	**1.7**	**1.9**	< 0.5	< 0.5	**0.58**	< 0.5	< 2	< 0.5
MW-4B	11/19/2020	Intermediate Gaspur	Primary	MW-04B-111920	< 0.5	< 0.5	**1.2**	< 0.5	**1.5**	< 0.5	< 0.5	**0.56**	**0.73**	< 0.5	< 2 J	< 0.5
MW-4B	11/19/2020	Intermediate Gaspur	Duplicate	QC15-111920	< 0.5	< 0.5	**1.4**	< 0.5	**1.9**	< 0.5	< 0.5	**0.67**	**0.9**	< 0.5	< 2 J	< 0.5
MW-4B	05/18/2021	Intermediate Gaspur	Primary	MW-04B-051821	< 0.5	**1.5**	**43**	< 0.5	**22**	**13**	< 0.5	**5.8**	**5.5**	< 0.5	**1.1 J**	< 0.5
MW-4B	11/18/2021	Intermediate Gaspur	Primary	MW-4B-111821	< 0.5 J	**1.1 J**	**52**	< 0.5	**26**	**16 J**	< 0.5	**3.7 J**	**3.7**	< 0.5 J	**1.3 J**	< 0.5 J
MW-4B	06/24/2022	Intermediate Gaspur	Primary	MW-4B-062422	< 0.5	**2.4**	**93**	< 0.5	**41**	**21**	< 0.5	**6**	**8.1**	< 0.5	**2.6**	**0.0045 J**
MW-4B	12/15/2022	Intermediate Gaspur	Primary	MW-4B-121522	< 0.5	**1.1**	**52**	< 0.5	**31**	**29**	< 0.5	**3.6**	**5.9**	< 0.5	**2**	< 0.005
MW-4B	05/16/2023	Intermediate Gaspur	Primary	MW-04B-051623	< 0.5	**1.4**	**69 J**	< 0.5	**24**	**6.8**	< 0.5	**3.1**	**5.4**	< 0.5	**1.5 J**	< 0.005
MW-4B	11/30/2023	Intermediate Gaspur	Primary	MW-04B-113023	< 0.5	**0.96**	**11**	< 0.5	**2.2**	**0.86**	< 0.5	**1.6**	< 0.5	< 0.5	< 2	< 0.005
MW-4B	05/07/2024	Intermediate Gaspur	Primary	MW-4B-050724	< 0.5	**1.7**	**64**	< 0.5	**29**	**22**	< 0.5	**4.4**	**4.9**	< 0.5	**3.2 J**	< 0.005
MW-4B	11/19/2024	Intermediate Gaspur	Primary	MW-04B-111924	< 0.5	**0.91 J**	**67**	< 0.5	**26**	**16**	< 0.5	**2.7**	**7.8**	< 0.5	**3**	< 0.005
MW-4B	11/19/2024	Intermediate Gaspur	Duplicate	QC04-111924	< 0.5	**0.95**	**75**	< 0.5	**29**	**17**	< 0.5	**3.3**	**8.5**	< 0.5	**2.4**	< 0.005
MW-15	12/01/2000	Intermediate Gaspur	Primary	MW-15_20001201	**1**	**590**	**150**	**10**	**7**	**2.2**	**22**	**4.1**	**1**	**2**	NA	NA
MW-15	02/01/2001	Intermediate Gaspur	Primary	MW-15_20010201	**2**	**700**	**170**	**10**	**6**	**2**	**20**	**3.7**	**1**	**2**	NA	NA
MW-15	05/01/2003	Intermediate Gaspur	Primary	MW-15_20030501	< 10 *	**250**	**98**	**9 J**	**3 J**	< 10 *	**10 J**	**11**	< 10 *	< 10 *	NA	NA
MW-15	01/01/2004	Intermediate Gaspur	Primary	MW-15_20040101	**0.3 J**	**360 D**	**160 D**	**6.7**	**6.5**	**1.2**	**14**	**14**	**0.85**	**4.1**	NA	NA
MW-15	07/01/2004	Intermediate Gaspur	Primary	MW-15_20040701	< 0.5	**87 D**	**70 D**	**3.9**	**3.5**	**1.1**	**7.3**	**3.9**	**0.43 J**	**1.3**	**54**	NA
MW-15	08/01/2006	Intermediate Gaspur	Primary	MW-15_20060801	< 0.5	**17**	**82 D**	**1.1**	**2.3**	< 0.5	**1.6**	**2.5**	**0.36 J**	< 0.5	**12**	NA
MW-15	03/01/2008	Intermediate Gaspur	Primary	MW-15_20080301	< 0.5	**37 D**	**57 D**	**1.6**	**2.6**	**1.3**	**3.6**	**3.6**	**0.31 J**	< 0.5	**7.5**	NA
MW-15	05/13/2009	Intermediate Gaspur	Primary	MW-15_20090513	< 0.5	**27 D**	**55 D**	**1.8**	**2**	**1.7 J**	**3.9**	**3.6**	**0.4 J**	< 0.5	**6**	NA
MW-15	07/15/2010	Intermediate Gaspur	Primary	MW-15	< 0.5	**18**	**50**	**1.8**	**2.2**	**1.5 J**	**3.4 J**	**2.9**	**0.62**	**0.58**	**7.4 J**	< 0.5
MW-15	06/17/2013	Intermediate Gaspur	Primary	MW-15-061713	< 0.5	**0.36 J**	**30**	**0.59**	**3**	**0.9**	**1.1**	**1.8**	**3.8**	< 0.5	**6**	< 0.3
MW-15	12/11/2013	Intermediate Gaspur	Primary	MW-15-121113	< 0.5	< 0.2	**34**	**0.47 J**	**2.2**	< 0.5	**0.8**	**2.2**	**6.7**	< 0.5	**4.3**	< 0.3
MW-15	06/11/2014	Intermediate Gaspur	Primary	MW-15-061114	< 0.5	**0.38 J**	**28**	< 0.3	**1.7**	< 0.5	< 0.2	**1.6**	**3.4**	< 0.5	**3.6**	< 0.3
MW-15	12/19/2014	Intermediate Gaspur	Primary	MW-15-121914	< 0.5	**0.47 J**	**32**	< 0.3	**7.8**	< 0.5	< 0.2	**2**	**4.6**	< 0.5	**1 J**	< 0.3
MW-15	06/08/2015	Intermediate Gaspur	Primary	MW-15-060915	< 0.5	**0.5**	**30**	< 0.3	**9.8**	**0.75**	< 0.2	**4.4**	**5.1**	< 0.5	< 1	< 0.3
MW-15	12/07/2015	Intermediate Gaspur	Primary	MW-15-120715	< 0.5	**0.84**	**35**	< 0.3	**8.1**	**0.66**	**0.37 J**	**3.3**	**4.7**	< 0.5	< 1	< 0.3
MW-15	06/07/2016	Intermediate Gaspur	RS	MW-15-060716 RR	< 0.5	**2.6**	**53**	**0.95**	**3.4**	**0.72**	**0.81**	**2.1**	**1.7**	< 0.5	NA	< 0.3
MW-15	06/07/2016	Intermediate Gaspur	Primary	MW-15-060716	< 0.5	**2.6**	**52**	**0.82**	**3.7**	**0.81**	**0.87**	**2.1**	**2**	< 0.5	**1.7 J**	< 0.3
MW-15	11/30/2016	Intermediate Gaspur	Primary	MW-15-113016	< 0.5	< 0.2	**25**	< 0.3	**6.4**	**0.55**	< 0.2	**3.6**	**2.4**	< 0.5	**1.1 J**	< 0.3
MW-15	06/07/2017	Intermediate Gaspur	Primary	MW-15-060717	< 0.5	< 0.2	**27**	**0.35 J**	**2.9**	< 0.5	**0.54**	**2.6**	**2.8**	< 0.5	**2.7**	< 0.3
MW-15	12/05/2017	Intermediate Gaspur	Primary	MW-15-120517	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-15	12/05/2017	Intermediate Gaspur	Duplicate	QC02-120517	< 0.5	< 0.2	**0.87**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.4 J**	< 0.5	< 1	< 0.3
MW-15	06/07/2018	Intermediate Gaspur	Primary	MW-15-060718	< 0.5	< 0.2	**23**	< 0.3	**2.8**	< 0.5	**0.6**	**4.1**	**1.7**	< 0.5	**1.6 J**	< 0.3
MW-15	12/04/2018	Intermediate Gaspur	Primary	MW-15-120418	< 0.5	< 0.2	**22**	< 0.3	**3.4**	< 0.5	**0.55**	**3.2**	**1.1**	< 0.5	**1.2 J**	< 0.3
MW-15	06/13/2019	Intermediate Gaspur	Primary	MW-15-061319	< 0.5	< 0.3	**26**	< 0.4	**4.9**	< 0.4	< 0.2	**3.2**	**1**	< 0.3	**1.6 J**	< 0.2
MW-15	12/03/2019	Intermediate Gaspur	Primary	MW-15-120319	< 0.5	< 0.3	**26**	< 0.4	**6.1**	**0.86**	**0.34 J**	**3.4**	**1.2**	< 0.3	**1.5 J**	< 0.2

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-15	06/12/2020	Intermediate Gaspur	Primary	MW-15-061220	< 0.5	< 0.5	**20**	< 0.5	**4.5**	< 0.5	**0.64**	**3.9 J**	**0.43 J**	< 0.5	**1.3 J**	< 0.5
MW-15	11/19/2020	Intermediate Gaspur	Primary	MW-15-111920	< 0.5	< 0.5	**1.7**	< 0.5	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-15	11/19/2020	Intermediate Gaspur	Duplicate	QC16-111920	< 0.5	< 0.5	**1.7**	< 0.5	**0.36 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-15	01/13/2021	Intermediate Gaspur	Primary	MW-15-011321	< 0.5	< 0.5	**20**	< 0.5	**4.3**	**0.84**	**0.43 J**	**3.2**	**0.76**	< 0.5	**2.2**	< 0.5
MW-15	05/19/2021	Intermediate Gaspur	Primary	MW-15-051921	< 0.5	< 0.5	**17**	< 0.5	**3.2**	< 0.5	**0.41 J**	**3**	< 0.5	< 0.5	**1.5 J**	< 0.5
MW-15	11/17/2021	Intermediate Gaspur	Primary	MW-15-111721	< 0.5	< 0.5 J	**13**	< 0.5	**0.79**	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**2**	< 0.5
MW-15	11/17/2021	Intermediate Gaspur	Duplicate	QC10-111721	< 0.5 J	< 0.5 J	**12**	< 0.5	**1**	**0.41 J**	**0.46 J**	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5 J
MW-15	06/22/2022	Intermediate Gaspur	Primary	MW-15-062222	< 0.5	< 0.5	**13**	**0.4 J**	**0.86**	**0.58**	**0.39 J**	< 0.5	< 0.5	< 0.5	**2.6**	< 0.005
MW-15	12/19/2022	Intermediate Gaspur	Primary	MW-15-121922	< 0.5	**0.38 J**	**34**	**0.47 J**	**2.7**	**1.6**	**0.63**	**1.3**	**0.64**	< 0.5	**2.4**	**0.11**
MW-15	05/19/2023	Intermediate Gaspur	Primary	MW-15-051923	< 0.5	< 0.5	**19**	< 0.5	**3.9**	**0.55**	**0.3 J**	**1.6**	< 0.5	< 0.5	**1.8 J**	**0.0068**
MW-15	12/01/2023	Intermediate Gaspur	Primary	MW-15-120123	< 0.5	< 0.5	**19**	< 0.5	**4.5**	**0.74**	**0.33 J**	**0.9**	**0.71**	< 0.5	**1.9 J**	< 0.005
MW-15	12/01/2023	Intermediate Gaspur	Duplicate	QC20-120123	< 0.5	< 0.5	**20**	< 0.5	**4.7**	**0.9**	**0.36 J**	**0.89**	**0.73**	< 0.5	**2**	< 0.005
MW-15	05/08/2024	Intermediate Gaspur	Primary	MW-15-050824	< 0.5	< 0.5	**11**	< 0.5	**1.4**	**0.53**	**0.39 J**	**0.35 J**	< 0.5	< 0.5	**2.2**	< 0.005
MW-15	11/21/2024	Intermediate Gaspur	Primary	MW-15-112124	< 0.5	< 0.5 J	**16**	< 0.5	**4.9**	**0.42 J**	**0.37 J**	**0.68**	< 0.5	< 0.5	**3.6**	< 0.005
MW-15B	05/01/2009	Lower Gaspur	Primary	MW-15B_20090501	< 0.5	**32 D**	**120 D**	**1.7**	**4.1**	**8.2**	**13**	**4.5**	**0.64**	< 0.5	**17**	NA
MW-15B	07/14/2010	Lower Gaspur	Primary	MW-15B	< 0.5	**13**	**100**	**2.1**	**4.9**	**8.3**	**6.5**	**5.9**	< 0.5	**0.73**	**9.4 J**	< 0.5
MW-15B	07/14/2010	Lower Gaspur	Duplicate	DUP-07142010	< 0.5	**13**	**100**	**2**	**4.7**	**7.7**	**6.3**	**6**	< 0.5	**0.72**	**9 J**	< 0.5
MW-15B	06/15/2011	Lower Gaspur	Primary	MW-15B-06152011	< 0.5	**13**	**120**	**2.9**	**5.9**	**5.6**	**7.2**	**7**	**0.9**	**0.84**	**14**	< 0.5
MW-15B	12/07/2011	Lower Gaspur	Primary	MW-15B_20111207	< 1	**7.3**	**100**	**1.8**	**4.7**	**2.5**	**4.5**	**5.3**	**1.2**	< 1	**14**	< 1
MW-15B	06/08/2012	Lower Gaspur	Primary	MW-15B-06082012	< 0.5	**7**	**92**	**1.7**	**4.9**	**2.9**	**4**	**5.1**	**1.9**	**0.71**	**12 J**	< 0.5
MW-15B	12/12/2012	Lower Gaspur	Primary	MW-15B-12122012	< 0.5	**4.8**	**72**	**1.3**	**4**	**2.2**	**2.8**	**4.1**	**2.7**	**0.56**	**12**	< 0.5
MW-15B	06/18/2013	Lower Gaspur	Primary	MW-15B-061813	< 0.5	< 0.2	**67**	**1.6**	**4.5**	**5.1**	**4.6**	**4.4**	**2.6**	< 0.5	**11**	< 0.3
MW-15B	06/18/2013	Lower Gaspur	Duplicate	DUP1-061813	< 0.5	< 0.2	**69**	**1.6**	**4.6**	**5.2**	**4.6**	**4.4**	**2.6**	< 0.5	**12**	< 0.3
MW-15B	12/12/2013	Lower Gaspur	Primary	MW-15B-121213	< 0.5	**0.25 J**	**69**	**1.6**	**4**	**4.3**	**3.2**	**3.6**	**2.2**	< 0.5	**12**	< 0.3
MW-15B	06/11/2014	Lower Gaspur	Primary	MW-15B-061114	< 0.5	< 0.2	**67**	**1.5**	**4**	**3.6**	**3.7**	**3.5**	**1.7**	< 0.5	**14**	< 0.3
MW-15B	06/11/2014	Lower Gaspur	Duplicate	DUP01-061114	< 0.5	< 0.2	**64**	**1.5**	**3.7**	**3.4**	**3.5**	**3.4**	**1.8**	< 0.5	**13**	< 0.3
MW-15B	12/18/2014	Lower Gaspur	Primary	MW-15B-121814	< 0.5	**1.6**	**55**	**0.9**	**3.8**	**1.2**	**1.1**	**2.2**	**1.9**	< 0.5	**5**	< 0.3
MW-15B	06/09/2015	Lower Gaspur	Primary	MW-15B-060915	< 0.5	**1.2**	**42**	**0.6**	**5**	**0.97**	**1.2**	**4.2**	**2.6**	< 0.5	**2.8**	< 0.3
MW-15B	12/08/2015	Lower Gaspur	Primary	MW-15B-120815	< 0.5	**3.2**	**82**	**1.2**	**5.7**	**1.1**	**1.6**	**3.9**	**1.9**	< 0.5	< 1	< 0.3
MW-15B	06/07/2016	Lower Gaspur	RS	MW-15B-060716 RR	< 0.5	< 0.2	**21**	< 0.3	**4**	< 0.5	< 0.2	**2.6**	**1.9**	< 0.5	NA	< 0.3
MW-15B	06/07/2016	Lower Gaspur	Primary	MW-15B-060716	< 0.5	< 0.2	**20**	**0.42 J**	**4**	< 0.5	**0.31 J**	**2.2**	**1.6**	< 0.5	< 1	< 0.3
MW-15B	11/30/2016	Lower Gaspur	Primary	MW-15B-113016	< 0.5	**2.2**	**41**	**0.63**	**3.3**	**0.7**	**0.72**	**1.6**	**1.2**	< 0.5	< 1	< 0.3
MW-15B	11/30/2016	Lower Gaspur	Duplicate	QC01-113016	< 0.5	**2**	**38**	**0.68**	**3.3**	**0.57**	**0.58**	**1.5**	**1**	< 0.5	< 1	< 0.3
MW-15B	06/06/2017	Lower Gaspur	Primary	MW-15B-060617	< 0.5	**0.71**	**34**	**0.42 J**	**2.7**	**1.5**	**0.7**	**1.8**	**1.6**	< 0.5	**2.9**	< 0.3
MW-15B	12/05/2017	Lower Gaspur	Primary	MW-15B-120517	< 0.5	**1.2**	**41**	**0.58**	**3.3**	< 0.5	**0.65**	**3.1**	**1.6**	< 0.5	**2.5**	< 0.3
MW-15B	12/05/2017	Lower Gaspur	Duplicate	QC03-120517	< 0.5	**1**	**42**	**0.53**	**3.4**	< 0.5	**0.71**	**3**	**1.5**	< 0.5	**2.4**	< 0.3
MW-15B	06/07/2018	Lower Gaspur	Primary	MW-15B-060718	< 0.5	**0.78**	**42**	**0.53**	**3.8**	**0.75**	**0.89**	**3.7**	**2.1**	< 0.5	**2 J**	< 0.3
MW-15B	12/06/2018	Lower Gaspur	Primary	MW-15B-120618	< 0.5	**0.62**	**32**	**0.66 J**	**2.9**	**1**	**0.68**	< 0.3	**1.1**	< 0.5	**2 J**	< 0.3
MW-15B	06/13/2019	Lower Gaspur	Primary	MW-15B-061319	< 0.5	**0.48 J**	**35**	< 0.4	**2.9**	**0.84**	< 0.2	**2.3**	**0.91**	< 0.3	**2**	< 0.2
MW-15B	12/03/2019	Lower Gaspur	Primary	MW-15B-120319	< 0.5	< 0.3	**29**	**0.48 J**	**3.1**	**0.87**	**0.54**	**2.4**	**0.96**	< 0.3	**1.2 J**	< 0.2
MW-15B	06/09/2020	Lower Gaspur	Primary	MW-15B-060920	< 0.5	**0.95**	**31**	< 0.5	**2.3**	< 0.5	**0.57**	< 0.5	**0.95**	< 0.5	**1.7 J**	< 0.5
MW-15B	11/20/2020	Lower Gaspur	Primary	MW-15B-112020	< 0.5	< 0.5	**6.2**	< 0.5	**0.85**	**1.7**	< 0.5	**0.58**	< 0.5	< 0.5	< 2	< 0.5
MW-15B	05/18/2021	Lower Gaspur	Primary	MW-15B-051821	< 0.5	**0.59**	**43**	**0.44 J**	**2.8**	**1.2**	**0.86**	< 0.5	**1.1**	< 0.5	**1.9 J**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-15B	11/16/2021	Lower Gaspur	Primary	MW-15B-111621	< 0.5	**0.49 J**	**45**	**0.71**	**3.7**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5
MW-15B	06/22/2022	Lower Gaspur	Primary	MW-15B-062222	< 0.5	< 0.5	**30**	< 0.5	**2.5**	**18**	**0.69**	**1.2**	**0.94**	< 0.5	**2.8**	**0.16**
MW-15B	12/13/2022	Lower Gaspur	Primary	MW-15B-121322	< 0.5	< 0.5	**0.44 J+**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-15B	05/16/2023	Lower Gaspur	Primary	MW-15B-051623	< 0.5	< 0.5	**39**	< 0.5	**2.6**	**0.55**	**0.35 J**	**1.3**	**0.56**	< 0.5	**2.4**	**0.11**
MW-15B	12/01/2023	Lower Gaspur	Primary	MW-15B-120123	< 0.5	< 0.5	**36**	**0.42 J**	**3.4**	**3.7**	**0.43 J**	**1.4**	**0.85**	< 0.5	**2.4**	**0.15**
MW-15B	05/08/2024	Lower Gaspur	Primary	MW-15B-050824	< 0.5	< 0.5	**56**	**0.43 J**	**3.9**	**1.2**	**0.53**	**1.8 J**	**0.92**	< 0.5	**3.2**	**0.18**
MW-15B	05/08/2024	Lower Gaspur	Duplicate	QC15-050824	< 0.5	< 0.5	**54**	**0.4 J**	**3.5**	**1.1**	**0.4 J**	**1.6 J**	**0.81**	< 0.5	**3**	**0.16**
MW-15B	11/20/2024	Lower Gaspur	Primary	MW-15B-112024	< 0.5	**0.36 J**	**54**	< 0.5	**7.9**	**1.7**	**0.36 J**	**2**	**1.4**	< 0.5	**2.6**	**0.23**
MW-16	12/01/2000	Exposition	Primary	MW-16_20001201	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 0.5	< 1	< 1	NA	NA
MW-16	02/01/2001	Exposition	Primary	MW-16_20010201	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 0.5	< 1	< 1	NA	NA
MW-16	03/01/2003	Exposition	Primary	MW-16_20030301	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA
MW-16	01/01/2004	Exposition	Primary	MW-16_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-16	11/01/2004	Exposition	Primary	MW-16_20041101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-16	08/01/2006	Exposition	Primary	MW-16_20060801	< 0.5	< 0.5	**0.25 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 1	NA
MW-16	03/01/2008	Exposition	Primary	MW-16_20080301	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.79**	< 0.5	< 0.5	< 2	NA
MW-16	05/13/2009	Exposition	Primary	MW-16_20090513	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-16	06/14/2011	Exposition	Primary	MW-16-06142011	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 3.6	< 0.5
MW-16	06/14/2011	Exposition	Duplicate	DUP1-06142011	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 3.6	< 0.5
MW-16	12/05/2011	Exposition	Primary	MW-16_20111205	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.94	< 0.5
MW-16	12/13/2012	Exposition	Primary	MW-16-12132012	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	< 0.5
MW-16	12/13/2012	Exposition	Duplicate	DUP6-12132012	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.9**	< 0.5
MW-16	12/11/2013	Exposition	Primary	MW-16-121113	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	12/19/2014	Exposition	Primary	MW-16-121914	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.72**	< 0.2	< 0.5	< 1	< 0.3
MW-16	12/07/2015	Exposition	Primary	MW-16-120715	< 0.5	< 0.2	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	06/07/2016	Exposition	Primary	MW-16-060716	< 0.5	< 0.2	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	11/30/2016	Exposition	Primary	MW-16-113016	< 0.5	< 0.2	**2.7**	< 0.3	< 0.4	< 0.5	< 0.2	**0.96**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-16	06/06/2017	Exposition	Primary	MW-16-060617	< 0.5	< 0.2	**3.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.8**	< 0.2	< 0.5	**2.2**	< 0.3
MW-16	12/05/2017	Exposition	Primary	MW-16-120517	< 0.5	< 0.2	**3.7**	< 0.3	< 0.4	< 0.5	< 0.2	**1.3**	< 0.2	< 0.5	**2.1**	< 0.3
MW-16	06/07/2018	Exposition	Primary	MW-16-060718	< 0.5	< 0.2	**4**	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	**1.5 J**	< 0.3
MW-16	12/06/2018	Exposition	Primary	MW-16-120618	< 0.5	< 0.2	**1.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.4 J**	< 0.3
MW-16	06/13/2019	Exposition	Primary	MW-16-061319	< 0.5	< 0.3	**3.4**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**2.8**	< 0.2
MW-16	12/04/2019	Exposition	Primary	MW-16-120419	< 0.5	< 0.3	**25**	< 0.4	**6.1**	**0.56**	**0.42 J**	**3.2**	**1.2**	< 0.3	**1.6 J**	< 0.2
MW-16	06/11/2020	Exposition	Primary	MW-16-061120	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-16	11/19/2020	Exposition	Primary	MW-16-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-16	05/19/2021	Exposition	Primary	MW-16-051921	< 0.5	< 0.5	**3.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	**5.6**	< 0.5
MW-16	11/17/2021	Exposition	Primary	MW-16-111721	< 0.5	< 0.5 J	**4.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J+**	< 0.5	< 0.5	**5.1**	< 0.5
MW-16	06/22/2022	Exposition	Primary	MW-16-062222	< 0.5	< 0.5	**4.1**	< 0.5	< 0.5	**0.43 J**	< 0.5	**0.62**	< 0.5	< 0.5	**4.6**	< 0.005
MW-16R	12/22/2022	Exposition	Primary	MW-16R-122222	< 0.5	**5.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-16R	02/24/2023	Exposition	Primary	MW-16R-022423	< 0.5	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.21 J**	< 0.5	< 0.5	< 2	< 0.005
MW-16R	05/19/2023	Exposition	Primary	MW-16R-051923	< 0.5	< 0.99	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-16R	09/08/2023	Exposition	Primary	MW-16R-090823	< 0.5	**0.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-16R	12/01/2023	Exposition	Primary	MW-16R-120123	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-16R	05/07/2024	Exposition	Primary	MW-16R-050724	< 0.5	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.28 J**	< 0.5	< 0.5	< 1	< 0.005

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-16R	11/20/2024	Exposition	Primary	MW-16R-112024	< 0.5	**0.35 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-17	12/01/2000	Shallow Gaspur	Primary	MW-17_20001201	< 1	**3**	**0.5 J**	< 1	< 1	< 0.5	**0.3 J**	< 1	< 1	< 1	NA	NA
MW-17	02/01/2001	Shallow Gaspur	Primary	MW-17_20010201	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	NA	NA
MW-17	03/01/2003	Shallow Gaspur	Primary	MW-17_20030301	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA
MW-17	01/01/2004	Shallow Gaspur	Primary	MW-17_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-17	11/01/2004	Shallow Gaspur	Primary	MW-17_20041101	< 0.5	**0.58**	**0.52**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.9**	NA
MW-17	08/01/2006	Shallow Gaspur	Primary	MW-17_20060801	< 0.5	**1.7**	**2.1**	**0.34 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.7 J**	NA
MW-17	03/01/2008	Shallow Gaspur	Primary	MW-17_20080301	< 0.5	< 0.5	**0.79**	< 0.5	< 0.5	< 0.5	**0.41 J**	**0.39 J**	< 0.5	< 0.5	< 1	NA
MW-17	05/12/2009	Shallow Gaspur	Primary	MW-17_20090512	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.5	< 0.5	**1.5 J**	NA
MW-17	06/14/2011	Shallow Gaspur	Primary	MW-17-06142011	< 0.5	**2.6**	**4.1**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-17	12/06/2011	Shallow Gaspur	Primary	MW-17_20111206	< 0.5	**2.3**	**3.9**	**1.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.6 J**	< 0.5
MW-17	06/07/2012	Shallow Gaspur	Primary	MW-17-06072012	< 0.5	**1.4**	**2.1**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.5**	< 0.5
MW-17	12/12/2012	Shallow Gaspur	Primary	MW-17-12122012	< 0.5	**1.9**	**3.6**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.1**	< 0.5
MW-17	12/12/2012	Shallow Gaspur	Duplicate	DUP4-12122012	< 0.5	**1.8**	**3**	**0.97**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**10**	< 0.5
MW-17	06/18/2013	Shallow Gaspur	Primary	MW-17-061813	< 0.5	< 0.2	**1.4**	**0.53**	< 0.4	< 0.5	**0.93**	< 0.3	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/12/2013	Shallow Gaspur	Primary	MW-17-121213	< 0.5	< 0.2	**2.6**	**0.7**	< 0.4	< 0.5	**0.83**	**0.77**	< 0.2	< 0.5	**5**	< 0.3
MW-17	06/11/2014	Shallow Gaspur	Primary	MW-17-061114	< 0.5	< 0.2	**2.4**	**0.35 J**	< 0.4	< 0.5	**0.31 J**	**0.57**	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/16/2014	Shallow Gaspur	Primary	MW-17-121614	< 0.5	< 0.2	**3.6**	**0.55**	< 0.4	< 0.5	**0.5**	**0.64**	< 0.2	< 0.5	**4.8**	< 0.3
MW-17	06/09/2015	Shallow Gaspur	Primary	MW-17-060915	< 0.5	< 0.2	**3.1**	**0.57**	< 0.4	< 0.5	**0.49 J**	**1.3**	< 0.2	< 0.5	**3.4**	< 0.3
MW-17	12/09/2015	Shallow Gaspur	Primary	MW-17-120915	< 0.5	< 0.2	**2.6**	**0.48 J**	< 0.4	< 0.5	**0.36 J**	**0.76**	< 0.2	< 0.5	**1.9 J**	< 0.3
MW-17	06/09/2016	Shallow Gaspur	Primary	MW-17-060916	< 0.5	**2.4**	**5.6**	**2.2**	< 0.4	< 0.5	**1.1**	**0.86**	< 0.2	< 0.5	**4**	< 0.3
MW-17	06/09/2016	Shallow Gaspur	Duplicate	QC12-060916	< 0.5	**2.3**	**5.6**	**2.3**	< 0.4	< 0.5	**1.2**	**0.93**	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/01/2016	Shallow Gaspur	Primary	MW-17-120116	< 0.5	**3**	**4.2**	**1.8**	< 0.4	< 0.5	**1.2**	**0.56**	< 0.2	< 0.5	**8.1**	< 0.3
MW-17	06/06/2017	Shallow Gaspur	Primary	MW-17-060617	< 0.5	**4.9**	**3.3**	**2.4**	< 0.4	< 0.5	**0.8**	< 0.3	< 0.2	< 0.5	**8.7**	< 0.3
MW-17	12/08/2017	Shallow Gaspur	Primary	MW-17-120817	< 0.5	**0.57**	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-17	06/07/2018	Shallow Gaspur	Primary	MW-17-060718	< 0.5	**13**	**5.3**	**2.5**	< 0.4	< 0.5	**1.2**	< 0.3	< 0.2	< 0.5	**5.5**	< 0.3
MW-17	12/06/2018	Shallow Gaspur	Primary	MW-17-120618	< 0.5	**17**	**5.7**	**1.9**	< 0.4	< 0.5	**0.93**	**0.64**	< 0.2	< 0.5	**7.5**	< 0.3
MW-17	06/13/2019	Shallow Gaspur	Primary	MW-17-061319	< 0.5	**16**	**6.7**	**2.1**	< 0.3	< 0.4	**1.1**	< 0.2	< 0.4	< 0.3	**7.8**	< 0.2
MW-17	12/03/2019	Shallow Gaspur	Primary	MW-17-120319	< 0.5	**17**	**9.4**	**2.1**	**0.4 J**	< 0.4	**1.1**	< 0.2	< 0.4	< 0.3	**7.4**	< 0.2
MW-17	06/11/2020	Shallow Gaspur	Primary	MW-17-061120	< 0.5	**3.4**	**2**	**0.71**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.3 J**	< 0.5
MW-17	11/20/2020	Shallow Gaspur	Primary	MW-17-112020	< 0.5	< 0.5	**0.33 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.99 J**	< 0.5
MW-17	05/20/2021	Shallow Gaspur	Primary	MW-17-052021	< 0.5	**8.1**	**23**	**2**	**0.46 J**	< 0.5	**1.1**	**0.67**	< 0.5	< 0.5	**6.8**	< 0.5
MW-17	11/18/2021	Shallow Gaspur	Primary	MW-17-111821	< 0.5	**3.9 J**	**29**	**2.5**	**0.96**	**0.44 J**	**1.2**	**0.53 J**	< 0.5	< 0.5 J	**4.9 J**	< 0.5
MW-17	06/23/2022	Shallow Gaspur	Primary	MW-17-062322	< 0.5	**2.5**	**29**	**1.9**	**0.8**	**0.83**	**0.82**	**0.63**	< 0.5	< 0.5	**5.2**	**0.0058**
MW-17	12/16/2022	Shallow Gaspur	Primary	MW-17-121622	< 0.5	**2**	**18**	**1.7**	**0.46 J**	**0.86**	**0.62**	**0.6**	< 0.5	< 0.5	**4.5**	**0.0067**
MW-17	05/16/2023	Shallow Gaspur	Primary	MW-18R-051623	< 0.5	**1.5**	**23**	**1.3**	**0.33 J**	**0.89**	**0.42 J**	**0.42 J**	< 0.5	< 0.5	**3.6**	**0.005**
MW-17	05/18/2023	Shallow Gaspur	Primary	MW-17-051823	< 0.5	**1.3**	**17**	**1.2**	< 0.5	< 0.5	**0.39 J**	**0.33 J**	< 0.5	< 0.5	**3.9 J**	**0.0058**
MW-17	12/01/2023	Shallow Gaspur	Primary	MW-17-120123	< 0.5	**0.96**	**20**	**1.3**	**0.41 J**	**1**	**0.37 J**	**0.28 J**	< 0.5	< 0.5	**3.7**	**0.0053**
MW-17	05/09/2024	Shallow Gaspur	Primary	MW-17-050924	< 0.5	**0.79**	**24**	**1.4**	**0.38 J**	**0.66**	**0.43 J**	**0.3 J**	< 0.5	< 0.5	**4.4**	< 0.005
MW-17	11/20/2024	Shallow Gaspur	Primary	MW-17-112024	< 0.5	< 0.5	**6.4**	**0.43 J**	**0.47 J**	**23**	**0.46 J**	**0.41 J**	**0.48 J**	< 0.5	**3.2**	< 0.005
MW-18	12/01/2000	Exposition	Primary	MW-18_20001201	< 1	< 1	**0.6 J**	< 1	< 1	< 0.5	< 1	**0.4 J**	< 1	< 1	NA	NA
MW-18	02/01/2001	Exposition	Primary	MW-18_20010201	< 1	< 1	**0.5 J**	< 1	< 1	< 0.5	< 1	**0.3 J**	< 1	< 1	NA	NA
MW-18	03/01/2003	Exposition	Primary	MW-18_20030301	< 0.5	**0.2 J**	**0.8 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-18	01/01/2004	Exposition	Primary	MW-18_20040101	< 0.5	**0.24 J**	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-18	08/01/2006	Exposition	Primary	MW-18_20060801	< 0.5	**0.57**	**0.96**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-18	03/01/2008	Exposition	Primary	MW-18_20080301	< 0.5	**0.33 J**	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	**0.33 J**	< 0.5	< 0.5	< 2	NA
MW-18	05/12/2009	Exposition	Primary	MW-18_20090512	< 0.5	**1.1**	**1.6**	**0.39 J**	< 0.5	< 0.5	**0.6**	**0.48 J**	< 0.5	< 0.5	< 2	NA
MW-18	06/14/2011	Exposition	Primary	MW-18-06142011	< 0.5	< 0.5	**0.83**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-18	12/05/2011	Exposition	Primary	MW-18_20111205	< 0.5	< 0.5	**0.89**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-18	12/11/2012	Exposition	Primary	MW-18-12112012	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-18	12/12/2013	Exposition	Primary	MW-18-121213	< 0.5	< 0.2	**1.3**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/16/2014	Exposition	Primary	MW-18-121614	< 0.5	< 0.2	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/09/2015	Exposition	Primary	MW-18-120915	< 0.5	< 0.2	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/09/2015	Exposition	Duplicate	DUP02-120915	< 0.5	< 0.2	**1.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/01/2016	Exposition	Primary	MW-18-120116	< 0.5	< 0.2	**1.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	06/07/2017	Exposition	Primary	MW-18-060717	< 0.5	< 0.2	**2.1**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-18	12/08/2017	Exposition	Primary	MW-18-120817	< 0.5	< 0.2	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-18	12/06/2018	Exposition	Primary	MW-18-120618	< 0.5	< 0.2	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.2**	< 0.3
MW-18	06/13/2019	Exposition	Primary	MW-18-061319	< 0.5	< 0.3	**3.3**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**2.6**	< 0.2
MW-18	12/03/2019	Exposition	Primary	MW-18-120319	< 0.5	< 0.3	**3.4**	< 0.4	< 0.3	**0.51**	< 0.2	< 0.2	< 0.4	< 0.3	**2.6**	< 0.2
MW-18	06/11/2020	Exposition	Primary	MW-18-061120	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-18	11/20/2020	Exposition	Primary	MW-18-112020	< 0.5	**9.4**	**21**	**2.4**	**0.72**	< 0.5	**1.1**	**1**	< 0.5	< 0.5	**6.3**	< 0.5
MW-18	05/20/2021	Exposition	Primary	MW-18-052021	< 0.5	< 0.5	**4.2**	< 0.5	< 0.5	< 0.5	**0.29 J**	**0.23 J**	< 0.5	< 0.5	**5**	< 0.5
MW-18	05/20/2021	Exposition	Duplicate	QC17-052021	< 0.5	< 0.5	**4.2**	< 0.5	< 0.5	**0.48 J**	**0.31 J**	< 0.5	< 0.5	< 0.5	**5**	< 0.5
MW-18	11/17/2021	Exposition	Primary	MW-18-111721	< 0.5 J	< 0.5 J	**5.3**	< 0.5	< 0.5	**0.77**	**0.28 J**	< 0.5	< 0.5	< 0.5	**4.4**	< 0.5 J
MW-18	06/23/2022	Exposition	Primary	MW-18-062322	< 0.5	**0.84**	**3.8**	< 0.5	**0.69**	< 0.5	< 0.5	**0.54**	< 0.5	< 0.5	**3.5**	< 0.005
MW-18R	12/22/2022	Exposition	Primary	MW-18R-122222	< 0.5	**7**	**0.34 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-18R	02/24/2023	Exposition	Primary	MW-18R-022423	< 0.5	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-18R	06/21/2023	Exposition	Primary	MW-18R-062123	< 0.5	**4.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.53**	< 0.5	< 2	< 0.005
MW-18R	09/08/2023	Exposition	Primary	MW-18R-090823	< 0.5	**0.42 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-18R	11/28/2023	Exposition	Primary	MW-18R-112823	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-18R	05/07/2024	Exposition	Primary	MW-18R-050724	< 0.5	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-18R	11/21/2024	Exposition	Primary	MW-18R-112124	< 0.5	**1.3 J**	**0.49 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-19	12/01/2000	Shallow Gaspur	Primary	MW-19_20001201	< 1	**6700**	**45**	**18**	**9**	**1.2**	**31**	**12**	**1**	< 1	NA	NA
MW-19	02/01/2001	Shallow Gaspur	Primary	MW-19_20010201	< 1	**5700**	**33**	**16**	**8**	**1**	**29**	**9.7**	**1**	< 1	NA	NA
MW-19	05/01/2003	Shallow Gaspur	Primary	MW-19_20030501	< 50 *	**1000**	< 50 *	< 50 *	< 50 *	< 50 *	< 50 *	**39 J**	< 50 *	< 50 *	NA	NA
MW-19	01/01/2004	Shallow Gaspur	Primary	MW-19_20040101	< 0.5	**450 D**	**11**	**2.8 J**	**1.5**	**0.19 J**	**3**	**34 D**	< 0.5	< 0.5	NA	NA
MW-19	07/01/2004	Shallow Gaspur	Primary	MW-19_20040701	< 0.5	**99 D**	**4.5**	**1.6 J**	**0.65**	**0.25 J**	**0.77**	**33 D**	< 0.5	< 0.5	**17**	NA
MW-19	08/01/2006	Shallow Gaspur	Primary	MW-19_20060801	< 0.5	**94 D**	**13**	**1.1**	**1.6**	< 0.5	**0.96**	**23**	< 0.5	< 0.5	**3.7**	NA
MW-19	03/01/2008	Shallow Gaspur	Primary	MW-19_20080301	< 0.5	**42 D**	**15**	**0.73**	**1.6**	**0.31 J**	**0.56**	**14**	< 0.5	< 0.5	**3.3**	NA
MW-19	05/19/2009	Shallow Gaspur	Primary	MW-19_20090519	< 0.5	**36 D**	**21 D**	< 0.5 J	**1.3 J**	< 0.5	**0.38 J**	**8.2**	< 0.5	< 0.5	**2.8**	NA
MW-19	06/15/2011	Shallow Gaspur	Primary	MW-19-06152011	< 0.5	**11**	**29**	< 0.5	**0.89**	< 0.5	< 0.5	**5.5**	< 0.5	< 0.5	**4.2**	< 0.5
MW-19	12/07/2011	Shallow Gaspur	Primary	MW-19_20111207	< 0.5	**6.2**	**26**	< 0.5	**1.8**	< 0.5	< 0.5	**7.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-19	12/07/2011	Shallow Gaspur	Duplicate	DUP4-12072011	< 0.5	**7.1**	**23**	< 0.5	**1.5**	< 0.5	< 0.5	**7.4**	< 0.5	< 0.5	**2.9**	< 0.5
MW-19	06/07/2012	Shallow Gaspur	Primary	MW-19-06072012	< 0.5	**4.5**	**15**	< 0.5	< 0.5	< 0.5	< 0.5	**6**	< 0.5	< 0.5	**3.4 J**	< 0.5
MW-19	12/12/2012	Shallow Gaspur	Primary	MW-19-12122012	< 0.5	**6.5**	**38**	< 0.5	**3.4**	**0.87**	< 0.5	**2.6**	< 0.5	< 0.5	**4.5**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-19	06/18/2013	Shallow Gaspur	Primary	MW-19-061813	< 0.5	**8**	**11**	**1.2**	**0.73**	**8.5**	**0.55**	**20**	< 0.2	< 0.5	**7.3**	< 0.3
MW-19	12/11/2013	Shallow Gaspur	Primary	MW-19-121113	< 0.5	**4.7**	**4.3**	**2.4**	**0.43 J**	**7**	**0.7**	**41**	< 0.2	< 0.5	**5.1**	< 0.3
MW-19	06/11/2014	Shallow Gaspur	Primary	MW-19-061114	< 0.5	**9.8**	**13**	**3.8**	**1.1**	**4.3**	**1.2**	**74**	**0.45 J**	< 0.5	**4.2**	< 0.3
MW-19	12/15/2014	Shallow Gaspur	Primary	MW-19-121514	< 0.5	**7.3**	**7.9**	**3.3**	**0.98**	**2.5**	**1.1**	**34**	< 0.2	< 0.5	**3.3**	< 0.3
MW-19	06/09/2015	Shallow Gaspur	Primary	MW-19-060915	< 0.5	**9.5**	**19**	**3.3**	**2.3**	**2.7**	**1.3**	**28**	< 0.2	< 0.5	**3.2**	< 0.3
MW-19	12/09/2015	Shallow Gaspur	Primary	MW-19-120915	< 0.5	**9.8**	**19**	**3.9**	**1.7**	**3**	**1.4**	**26**	< 0.2	< 0.5	**3.4**	< 0.3
MW-19	06/07/2016	Shallow Gaspur	Primary	MW-19-060716	< 0.5	**8**	**6.5**	**7**	**0.68**	**3.2**	**1.5**	**19**	< 0.2	< 0.5	**5.5**	< 0.3
MW-19	12/01/2016	Shallow Gaspur	Primary	MW-19-120116	< 0.5	**7.1**	**15**	**5.6**	**1.9**	**1**	**1.1**	**12**	< 0.2	< 0.5	**4.8**	< 0.3
MW-19	06/08/2017	Shallow Gaspur	Primary	MW-19-060817	< 0.5	**1.5**	**7**	**1.6**	**0.56**	**7.1**	**0.91**	**8.3**	< 0.2	< 0.5	**9.8**	< 0.3
MW-19	06/08/2017	Shallow Gaspur	Duplicate	QC06-060817	< 0.5	**2.2**	**6.1**	**2**	**0.63**	**4.9**	**0.87**	**6.8**	< 0.2	< 0.5	**12**	< 0.3
MW-19	12/07/2017	Shallow Gaspur	Primary	MW-19-120717	< 0.5	**3**	**8.6**	< 0.3	**0.55**	**1.8**	**0.69**	**6**	< 0.2	< 0.5	**8.3**	< 0.3
MW-19	06/07/2018	Shallow Gaspur	Primary	MW-19-060718	< 0.5	**4.4**	**15**	**2.2**	**1.7**	< 0.5	**0.98**	**1.8**	< 0.2	< 0.5	**4.7**	< 0.3
MW-19	12/07/2018	Shallow Gaspur	Primary	MW-19-120718	< 0.5	**2.2**	**4.9**	**1.6**	< 0.4	**1.1**	**0.53**	**2.7**	< 0.2	< 0.5	**4.9**	< 0.3
MW-19	06/12/2019	Shallow Gaspur	Primary	MW-19-061219	< 0.5	**2.3**	**9.1**	**1.2**	**0.9**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**2.2**	< 0.2
MW-19	12/03/2019	Shallow Gaspur	Primary	MW-19-120319	< 0.5	**1.9**	**7.5**	**0.53**	**0.93**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**1.6 J**	< 0.2
MW-19	06/11/2020	Shallow Gaspur	Primary	MW-19-061120	< 0.5	**1.5**	**3.3**	< 0.5	< 0.5	< 0.5	< 0.5	**1.5 J**	< 0.5	< 0.5	< 2	< 0.5
MW-19	11/18/2020	Shallow Gaspur	Primary	MW-19-111820	< 0.5	**3.6**	**3.2**	**2.5**	< 0.5	< 0.5	**0.46 J**	**2.9**	< 0.5	< 0.5	**5**	< 0.5
MW-19	05/20/2021	Shallow Gaspur	Primary	MW-19-052021	< 0.5	**1.6**	**2.2**	**1.9**	< 0.5	< 0.5	**0.49 J**	**2**	< 0.5	< 0.5	**5.8**	< 0.5
MW-19	11/16/2021	Shallow Gaspur	Primary	MW-19-111621	< 0.5	**2.7**	**4.7**	**3.9**	**0.34 J**	< 0.5	**0.83**	**5**	< 0.5	< 0.5	**3.8**	< 0.5
MW-19	06/23/2022	Shallow Gaspur	Primary	MW-19-062322	< 0.5	**3.4**	**22**	**0.95**	**3.1**	< 0.5	**0.47 J**	**0.28 J**	< 0.5	< 0.5	**7.3**	**0.097**
MW-19	12/19/2022	Shallow Gaspur	Primary	MW-19-121922	< 0.5	**2.7**	**27**	**0.88**	**3.6**	**0.4 J**	**0.74**	**0.32 J**	< 0.5	< 0.5	**11**	**0.11**
MW-19	05/19/2023	Shallow Gaspur	Primary	MW-19-051923	< 0.5	**2.3 J+**	**74**	**0.65**	**8.3**	< 0.5	**0.59**	**0.24 J**	< 0.5	< 0.5	**5.3**	**0.06**
MW-19	11/30/2023	Shallow Gaspur	Primary	MW-19-113023	< 0.5	**2.7**	**18**	**2.2**	**1.9**	< 0.5	**1**	**0.64**	< 0.5	< 0.5	**12**	**0.098 J**
MW-19	05/09/2024	Shallow Gaspur	Primary	MW-19-050924	< 0.5	**1.7**	**13**	**1.7**	**0.93**	< 0.5	**0.91**	**0.31 J**	< 0.5	< 0.5	**13**	**0.077**
MW-19	11/22/2024	Shallow Gaspur	Primary	MW-19-112224	< 0.5	**2.3**	**26**	**1.3**	**2.4**	**3.9 J**	**0.82**	**0.7**	< 0.5	< 0.5	**9**	**0.082**
MW-20	02/01/2003	Shallow Gaspur	Primary	MW-20_20030201	**5.6**	**300**	**110**	**7.6**	**5.4**	< 5	**32**	**6.4**	NA	NA	NA	NA
MW-20	05/01/2003	Shallow Gaspur	Primary	MW-20_20030501	< 13	**520**	**140**	< 13	< 13	< 13	**41**	< 13	< 13 *	< 13 *	NA	NA
MW-20	12/01/2003	Shallow Gaspur	Primary	MW-20_20031201	**5.2**	**570**	**150**	**16**	**7.8**	**3.6**	**44**	**7.6**	**1.1**	**4.2**	NA	NA
MW-20	02/01/2004	Shallow Gaspur	Primary	MW-20_20040201	**4.1**	**490**	**140**	**14**	**7.3**	**2.8**	**39**	**7.8**	**0.97**	**4.1**	NA	NA
MW-20	04/04/2004	Shallow Gaspur	Primary	MW-20_20040404	**5.1**	**670**	**180**	**15**	**8.9**	< 0.5	**48**	**8**	< 0.5	**4.9**	**120**	NA
MW-20	07/01/2004	Shallow Gaspur	Primary	MW-20_20040701	**4**	**470 D**	**140 D**	**16**	**7.6**	**3**	**45**	**7.3**	**1.1**	**4.3**	NA	NA
MW-20	11/01/2004	Shallow Gaspur	Primary	MW-20_20041101	**5.1**	**770 D**	**200 E**	**24**	**11**	**8.3**	**58 D**	**12**	**1.2**	**5.9 J**	NA	NA
MW-20	04/01/2005	Shallow Gaspur	Primary	MW-20_20050401	**2.4**	**120 D**	**45 D**	**7.2**	**4.6**	**1.9**	**13 D**	**7.9**	**0.68**	**3.7**	**180**	NA
MW-20	07/01/2005	Shallow Gaspur	Primary	MW-20_20050701_A	**3.2**	**520 D**	**200 D**	**18**	**8.2**	**4.7**	**54 D**	**10**	**0.85**	**4.4**	**140**	NA
MW-20	07/01/2005	Shallow Gaspur	Primary	MW-20_20050701_B	**1.2**	**210 D**	**98 D**	**3.8**	**3.5**	**0.69**	**22**	**8.4**	**0.45 J**	**3**	**150**	NA
MW-20	08/01/2005	Shallow Gaspur	Primary	MW-20_20050801	**2.7**	**230**	**81**	**11**	**5.5**	**2.3**	**30**	**11**	**0.5**	**4.3**	**160**	NA
MW-20	09/01/2005	Shallow Gaspur	Primary	MW-20_20050901_A	**2**	**160**	**60**	**6.3**	**2.6**	**1.1**	**24**	**6.8**	**0.3**	**2.6**	**140**	NA
MW-20	09/01/2005	Shallow Gaspur	Primary	MW-20_20050901_B	**1.7**	**150**	**50**	**5.5**	**2.7**	**0.8**	**21**	**6.3**	**0.3**	**2.6**	**120**	NA
MW-20	10/01/2005	Shallow Gaspur	Primary	MW-20_20051001	**2.4**	**220**	**71**	**6.5**	**3**	**1**	**34**	**6.5**	**0.4**	**3.6**	**120**	NA
MW-20	11/01/2005	Shallow Gaspur	Primary	MW-20_20051101	**1.1**	**130**	**39**	**5.4**	**1.8**	**0.7**	**22**	**3.7**	**0.3**	**1.8**	**98**	NA
MW-20	01/01/2006	Shallow Gaspur	Primary	MW-20_20060101	**2.8**	**240**	**64**	**10**	**4.2**	**1**	**34**	**6.7**	**0.5**	**3.5**	**110**	NA
MW-20	03/01/2006	Shallow Gaspur	Primary	MW-20_20060301	**0.75**	**110 D**	**31 D**	**2**	**1**	**0.62**	**16**	**2.7**	< 0.5	< 0.5	**79**	NA
MW-20	06/01/2006	Shallow Gaspur	Primary	MW-20_20060601	**1.8**	**340**	**77**	**15**	**6**	**3.1**	**34**	**6.3**	**0.6**	**3.6**	**160**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-20	08/01/2006	Shallow Gaspur	Primary	MW-20_20060801	**0.99**	**140 D**	**26**	**5**	**2**	< 0.5	**14**	**3.9**	**0.4 J**	**2**	**71**	NA
MW-20	03/01/2008	Shallow Gaspur	Primary	MW-20_20080301	**2.4**	**200 D**	**120 D**	**9.1**	**4.6**	**2.7**	**42 D**	**5.8**	**0.57**	**2.8**	**66**	NA
MW-20	05/12/2009	Shallow Gaspur	Primary	MW-20_20090512	**1.3 J**	**100 D**	**130 D**	**9.2**	**4.6**	< 2.5	**32**	**5.3**	< 2.5	< 2.5	**39**	NA
MW-20	06/16/2011	Shallow Gaspur	Primary	MW-20-06162011	< 2	**81**	**230**	**12**	**6.7**	**19**	**43**	**5.9**	< 2	**3.5**	**240**	< 2
MW-20	12/09/2011	Shallow Gaspur	Primary	MW-20_20111209	< 1	**72**	**200**	**9**	**5.8**	**9.9**	**33**	**6.3**	< 1	**2.9**	**140 J**	**1.6**
MW-20	06/13/2012	Shallow Gaspur	Primary	MW-20-06132012	< 2	**56**	**250**	**13**	**7.3**	**15**	**34**	**6.4**	< 2	< 2	**190**	< 2
MW-20	12/14/2012	Shallow Gaspur	Primary	MW-20-12142012	< 0.5	**24**	**92**	**6.6**	**5.1**	**27**	**15**	**3.1**	**0.51**	< 0.5	**170**	**0.68**
MW-20	06/18/2013	Shallow Gaspur	Primary	MW-20-061813	< 0.5	**12**	**140**	**9.1**	**6.9**	**23**	**20**	**4**	**0.41 J**	**1.1**	**60**	< 0.3
MW-20	12/13/2013	Shallow Gaspur	Primary	MW-20-121313	< 1	**32**	**130**	**8.2**	**5.4**	**36**	**17**	**2.8**	< 0.4	< 1	**100**	< 0.6
MW-20	06/10/2014	Shallow Gaspur	Primary	MW-20-061014	< 0.5	**6.8**	**110**	**4.6**	**4**	**28**	**11**	**1.6**	**0.31 J**	< 0.5	**91**	< 0.3
MW-20	12/19/2014	Shallow Gaspur	Primary	MW-20-121914	< 0.5	**29**	**56**	**3.2**	**2.4**	**18**	**6**	**0.66**	< 0.2	< 0.5	**69**	< 0.3
MW-20	06/11/2015	Shallow Gaspur	Primary	MW-20-061115	< 0.5	**21**	**110**	**6.5**	**5.1**	**28**	**13**	**2.7 J**	**0.35 J**	**0.83**	**140**	< 0.3
MW-20	06/11/2015	Shallow Gaspur	Duplicate	DUP04-061115	< 0.5	**19**	**100**	**6.5**	**5.2**	**28**	**12**	**2.3 J**	**0.29 J**	**0.72**	**150**	< 0.3
MW-20	12/09/2015	Shallow Gaspur	Primary	MW-20-120915	< 0.5	**50**	**280**	**15**	**8**	**11**	**36**	**4.9**	**0.68**	**2.2**	**220**	**1.1**
MW-20	06/07/2016	Shallow Gaspur	Primary	MW-20-060716	**0.82**	**250**	**170**	**26**	**9.4**	**5.2**	**49**	**7**	**1**	< 0.5	**240**	**2.1**
MW-20	12/02/2016	Shallow Gaspur	Primary	MW-20-120216	**0.64**	**190**	**340**	**24**	**13**	**6.6**	**73**	**7.8**	**0.96**	< 0.5	**280**	**2.8**
MW-20	06/08/2017	Shallow Gaspur	Primary	MW-20-060817	< 0.5	**47**	**160**	**4.6**	**5.6**	**1.5**	**29**	**3.1**	**0.44 J**	**2.4**	**240**	**3.1**
MW-20	12/07/2017	Shallow Gaspur	Primary	MW-20-120717	< 1	**69**	**190**	**7**	**6.9**	**1.5**	**39**	**5.1**	< 0.4	< 1	**130**	**4.9**
MW-20	06/05/2018	Shallow Gaspur	Primary	MW-20-060518	< 0.5	**24**	**86**	**2.4**	**3**	< 0.5	**24**	**3.2**	< 0.2	< 0.5	**130**	**5.5**
MW-20	12/04/2018	Shallow Gaspur	Primary	MW-20-120418	< 0.5	**28**	**67**	**3**	**2.4**	< 0.5	**18**	**2.5**	**0.39 J**	< 0.5	**360**	**3.9**
MW-20	06/11/2019	Shallow Gaspur	Primary	MW-20-061119	< 0.5	**12**	**44**	**0.48 J**	**1.1**	< 0.5	**10**	**1.7 J**	< 0.2	**0.93**	**280**	**2.8**
MW-20	12/06/2019	Shallow Gaspur	Primary	MW-20-120619	< 0.5	**23**	**65**	**2.7**	**4**	< 0.4	**15**	**1.8**	< 0.4	**1.3**	**180**	**1.7**
MW-20	06/12/2020	Shallow Gaspur	Primary	MW-20-061220	< 0.5	**11**	**33**	**1**	**1.3**	< 0.5	**7.7**	**1 J**	< 0.5	< 0.5	**120**	< 0.5
MW-20	06/12/2020	Shallow Gaspur	Duplicate	QC19-061220	< 0.5	**9.5**	**33**	**1.2**	**1.5**	< 0.5	**6.1**	**0.52 J**	< 0.5	< 0.5	**120**	< 0.5
MW-20	11/19/2020	Shallow Gaspur	Primary	MW-20-111920	< 0.5	**9.2**	**23**	**0.75**	**0.82**	< 0.5	**4.8**	< 0.5	< 0.5	< 0.5	**100**	**0.97**
MW-20	05/20/2021	Shallow Gaspur	Primary	MW-20-052021	< 0.5	**4.5**	**13**	**0.58**	**0.52**	< 0.5	**2**	< 0.5	< 0.5	< 0.5	**71**	< 0.5
MW-20	11/16/2021	Shallow Gaspur	Primary	MW-20-111621	< 0.5	**2.3 J**	**13**	**1.6**	**0.54**	< 0.5	**2.1**	< 0.5	< 0.5	< 0.5	**47**	< 0.5
MW-20	06/23/2022	Shallow Gaspur	Primary	MW-20-062322	< 0.5	**0.87**	**4.4**	**0.94**	< 0.5	< 0.5	**0.49 J**	< 0.5	< 0.5	< 0.5	**33**	**0.038**
MW-20	12/14/2022	Shallow Gaspur	Primary	MW-20-121422	< 0.5 J	**0.64 J+**	**10 J+**	**1.1 J+**	< 0.5	< 0.5	**0.92 J+**	< 0.5	< 0.5	< 0.5	**25**	**0.063**
MW-20	05/16/2023	Shallow Gaspur	Primary	MW-20-051623	< 0.5	**0.73**	**5.5**	**1.1**	< 0.5	< 0.5	**0.57**	**0.2 J**	< 0.5	< 0.5	**18**	**0.086**
MW-20	12/01/2023	Shallow Gaspur	Primary	MW-20-120123	< 0.5	**0.62**	**4.7**	< 0.5	**0.32 J**	< 0.5	**0.29 J**	**0.73**	< 0.5	< 0.5	**9.7**	**0.068**
MW-20	05/09/2024	Shallow Gaspur	Primary	MW-20-050924	< 0.5	**0.44 J**	**4.9**	< 0.5	**0.33 J**	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	**4.2**	**0.024**
MW-20	11/21/2024	Shallow Gaspur	Primary	MW-20-112124	< 0.5	**1.1 J**	**6.9**	< 0.5	**0.65**	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	**3.2**	**0.05**
MW-20B	07/01/2005	Intermediate Gaspur	Primary	MW20B_20050701_A	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.5**	NA
MW-20B	07/01/2005	Intermediate Gaspur	Primary	MW20B_20050701_B	< 0.5	**16**	**13**	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-20B	08/01/2005	Intermediate Gaspur	Primary	MW20B_20050801	< 0.5	**19**	**17**	**0.2 J**	**1.4**	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	**0.6**	NA
MW-20B	09/01/2005	Intermediate Gaspur	Primary	MW20B_20050901_A	< 0.5	**18**	**13**	**0.2 J**	**1**	< 0.5	**0.4 J**	< 0.5	< 0.5	< 0.5	**0.5**	NA
MW-20B	09/01/2005	Intermediate Gaspur	Primary	MW20B_20050901_B	< 0.5	**6.2**	**8.4**	< 0.5	**0.6**	< 0.5	**0.2 J**	< 0.5	< 0.5	< 0.5	< 1	NA
MW-20B	10/01/2005	Intermediate Gaspur	Primary	MW20B_20051001	< 0.5	**6**	**6.9**	< 0.5	**0.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-20B	11/01/2005	Intermediate Gaspur	Primary	MW20B_20051101	< 0.5	**6.1**	**14**	**0.2 J**	**1**	**0.2 J**	**0.4 J**	< 0.5	< 0.5	< 0.5	**0.8 J**	NA
MW-20B	01/01/2006	Intermediate Gaspur	Primary	MW20B_20060101	< 0.5	**10**	**17**	**0.4**	**1.2**	**0.3**	**0.7**	**0.2**	< 0.5	< 0.5	**1.8**	NA
MW-20B	03/01/2006	Intermediate Gaspur	Primary	MW20B_20060301	< 0.5	**6.3**	**16**	< 0.5	**0.87**	< 0.5	**0.8**	< 0.5	< 0.5	< 0.5	**2.2**	NA
MW-20B	05/01/2006	Intermediate Gaspur	Primary	MW20B_20060501	NA	**11**	**19**	**0.4 J**	**1.4**	**0.4 J**	**0.6**	NA	NA	NA	**1.9**	NA

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ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-20B	08/01/2006	Intermediate Gaspur	Primary	MW20B_20060801	< 0.5	**17**	**27 D**	**0.68**	**2**	< 0.5	**1.7**	< 0.5	< 0.5	< 0.5	**3.7**	NA
MW-20B	03/01/2008	Intermediate Gaspur	Primary	MW20B_20080301	< 0.5	**19**	**27 D**	**0.62**	**2.2**	**0.71**	**1.9**	< 0.5	< 0.5	< 0.5	**3**	NA
MW-20B	05/12/2009	Intermediate Gaspur	Primary	MW20B_20090512	< 0.5	**7.7**	**17 D**	**0.84**	**1.6**	< 0.5	**2.2**	< 0.5	< 0.5	< 0.5	**80 D**	NA
MW-20B	07/14/2010	Intermediate Gaspur	Primary	MW-20B	< 0.5	**15**	**120**	**4.4**	**6**	**13**	**18**	**2.4**	< 0.5	**0.82**	**61 J**	< 0.5
MW-20B	06/16/2011	Intermediate Gaspur	Primary	MW-20B-06162011	< 0.5	**2.9**	**160**	**4.7**	**8.7**	**28**	**26**	**5**	**0.71**	**1.3**	**140**	< 0.5
MW-20B	12/09/2011	Intermediate Gaspur	Primary	MW-20B_20111209	< 1	< 1	**140**	**3.1**	**8.7**	**34**	**27**	**7.1**	< 1	**1.4**	**110 J**	< 1
MW-20B	06/12/2012	Intermediate Gaspur	Split	MW-20B-061212-SPL	< 0.5	**0.41 J**	**120 D**	**4.2**	**14**	**31 D**	**23 D**	**7.1**	**1.2**	**1.7**	**61**	NA
MW-20B	06/12/2012	Intermediate Gaspur	Primary	MW-20B-061212	< 1	< 1	**180**	**4.4**	**12**	**30**	**30**	**7.9**	**1.2**	**1.7**	**120**	< 1
MW-20B	12/12/2012	Intermediate Gaspur	Primary	MW-20B-12122012	< 0.5	< 0.5	**140**	**3.7**	**9.1**	**44**	**26**	**6.5**	**0.89**	**1.7**	**140**	< 0.5
MW-20B	12/12/2012	Intermediate Gaspur	Primary	MW-20B_121212	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**200**	NA
MW-20B	06/18/2013	Intermediate Gaspur	Primary	MW-20B-061813	< 0.5	**0.76**	**140**	**4.2**	**9.5**	**31**	**28**	**4.7**	**0.6**	**1.2**	**78**	< 0.3
MW-20B	12/12/2013	Intermediate Gaspur	Primary	MW-20B-121213	< 0.5	**2.1**	**100**	**3.5**	**7.5**	**22**	**14**	**2.3**	**0.38 J**	< 0.5	**53**	< 0.3
MW-20B	06/10/2014	Intermediate Gaspur	Primary	MW-20B-061014	< 0.5	**2.8**	**74**	**3**	**5.8**	**11**	**8.2**	**1.4**	**0.25 J**	< 0.5	**39**	< 0.3
MW-20B	12/19/2014	Intermediate Gaspur	Primary	MW-20B-121914	< 0.5	**0.82**	**10**	**0.76**	**1.7**	**6.6**	**1.4**	**0.3 J**	< 0.2	< 0.5	**9.1**	< 0.3
MW-20B	12/19/2014	Intermediate Gaspur	Duplicate	DUP02-121914	< 0.5	**0.84**	**10**	**0.77**	**1.8**	**7.3**	**2**	**0.31 J**	< 0.2	< 0.5	**9.2**	< 0.3
MW-20B	06/11/2015	Intermediate Gaspur	Primary	MW-20B-061115	< 0.5	**2.1**	**13**	**1.2**	**1.3**	**5.4**	**2.1**	**0.66 J**	< 0.2	< 0.5	**7.2**	< 0.3
MW-20B	12/09/2015	Intermediate Gaspur	Primary	MW-20B-120915	< 0.5	**2**	**19**	**1.3**	**1.1**	**2.7**	**2**	**0.61**	< 0.2	< 0.5	**3.8**	< 0.3
MW-20B	06/07/2016	Intermediate Gaspur	Primary	MW-20B-060716	< 0.5	**1.3**	**9.6**	**1.5**	**0.83**	**1.9**	**1.7**	**0.5**	< 0.2	< 0.5	**6.5**	< 0.3
MW-20B	12/01/2016	Intermediate Gaspur	Primary	MW-20B-120116	< 0.5	**1.7**	**20**	**1.4**	**1.2**	**3.7**	**3**	**0.79**	< 0.2	< 0.5	**9.3**	< 0.3
MW-20B	06/06/2017	Intermediate Gaspur	Primary	MW-20B-060617	< 0.5	**2**	**22**	**2**	**1.3**	**9.8**	**3.5**	**0.58**	< 0.2	< 0.5	**14**	< 0.3
MW-20B	12/07/2017	Intermediate Gaspur	Primary	MW-20B-120717	< 0.5	**0.69**	**1.5**	< 0.3	< 0.4	< 0.5	**0.34 J**	< 0.3	< 0.2	< 0.5	**1.9 J**	< 0.3
MW-20B	06/05/2018	Intermediate Gaspur	Primary	MW-20B-060518	< 0.5	**2.2**	**26**	**1.3**	**1.8**	**4.7**	**4.1**	**1**	< 0.2	< 0.5	**8.6**	< 0.3
MW-20B	12/07/2018	Intermediate Gaspur	Primary	MW-20B-120718	< 0.5	**1.4**	**18**	**1.1**	**1.1**	**3**	**2.7**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-20B	06/11/2019	Intermediate Gaspur	Primary	MW-20B-061119	< 0.5	**1.7**	**26**	**1.6**	**1.7**	**4.1**	**4.2**	< 0.2	< 0.4	< 0.3	**20**	< 0.2
MW-20B	12/04/2019	Intermediate Gaspur	Primary	MW-20B-120419	< 0.5	**1.3**	**18**	**1.4**	**1.5**	**2.3**	**2.4**	**0.74**	< 0.4	< 0.3	**21**	< 0.2
MW-20B	06/09/2020	Intermediate Gaspur	Primary	MW-20B-060920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-20B	11/19/2020	Intermediate Gaspur	Primary	MW-20B-111920	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-20B	01/13/2021	Intermediate Gaspur	Primary	MW-20B-011321	< 0.5	**0.53**	**18**	**0.69**	**1.8**	**2.7**	**3.3**	**1.2**	**0.58**	< 0.5	**9.3**	< 0.5
MW-20B	05/18/2021	Intermediate Gaspur	Primary	MW-20B-051821	< 0.5	**0.81**	**17**	**0.78**	**1.9**	**5.2**	**3.7**	< 0.5	< 0.5	< 0.5	**12**	< 0.5
MW-20B	11/16/2021	Intermediate Gaspur	Primary	MW-20B-111621	< 0.5	**0.72 J**	**16**	**0.85**	**1.6**	**3.9**	**3.3**	**0.94**	< 0.5	< 0.5	**8.8**	< 0.5
MW-20B	06/23/2022	Intermediate Gaspur	Primary	MW-20B-062322	< 0.5	< 0.5	**0.41 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-20B	12/14/2022	Intermediate Gaspur	Primary	MW-20B-121422	< 0.5 J	**0.71 J+**	**7.5 J+**	**0.79 J+**	**0.97 J+**	**4.4 J+**	**0.92 J+**	< 0.5	< 0.5	< 0.5	**7**	< 0.005
MW-20B	05/17/2023	Intermediate Gaspur	Primary	MW-20B-051723	< 0.5	**0.42 J**	**6.6**	**0.91**	**0.5**	**2.4**	**0.93**	**0.73**	< 0.5	< 0.5	**9.6**	**0.011**
MW-20B	11/30/2023	Intermediate Gaspur	Primary	MW-20B-113023	< 0.5	**0.64**	**11**	**0.9**	**0.98**	**2.3**	**1.6**	**0.88**	< 0.5	< 0.5	**9.4**	**0.013 J**
MW-20B	05/06/2024	Intermediate Gaspur	Primary	MW-20B-050624	< 0.5	< 0.5	**0.32 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 1	< 0.005
MW-20B	11/19/2024	Intermediate Gaspur	Primary	MW-20B-111924	< 0.5	< 0.5 J	**1.7**	< 0.5	**0.98**	**9**	**0.93**	**1.2**	< 0.5	< 0.5	**4**	**0.015**
MW-21	12/01/2003	Shallow Gaspur	Primary	MW-21_20031201	**2.3**	**870**	**370**	**25**	**14**	**5.2**	**61**	**17**	**2.7**	**9.7**	NA	NA
MW-21	02/01/2004	Shallow Gaspur	Primary	MW-21_20040201	**2.2**	**680**	**330**	**27**	**16 J**	**4.9**	**51**	**17**	**2.6**	**9.3**	NA	NA
MW-21	03/01/2004	Shallow Gaspur	Primary	MW-21_20040301	**3**	**980**	**490**	**50 J**	**20**	**5**	**80**	**20**	< 0.5	**11**	**280**	NA
MW-21	07/01/2004	Shallow Gaspur	Primary	MW-21_20040701	**2.8**	**640 D**	**340 D**	**29**	**15**	**5.8**	**69**	**17**	**2.6**	**8.3**	NA	NA
MW-21	11/01/2004	Shallow Gaspur	Primary	MW-21_20041101	**2.1**	**720 D**	**430 D**	**24**	**11**	**64 D**	**59 D**	**21**	**3**	**8.2 J**	NA	NA
MW-21	03/01/2005	Shallow Gaspur	Primary	MW-21_20050301	**0.43 J**	**180 D**	**120 D**	**13 J**	**11**	**20**	**18 D**	**5.8 D**	**1.5**	**3.3**	**170**	NA
MW-21	11/01/2005	Shallow Gaspur	Primary	MW-21_20051101	< 0.5	**220**	**120**	**28**	**12**	**18**	**35**	**6**	**1.6**	**2.6**	**240**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-21	03/01/2006	Shallow Gaspur	Primary	MW-21_20060301	< 0.5	**390 D**	**280 D**	**19**	**17**	**23**	**50**	**12**	**2.7**	< 0.5	**360**	NA
MW-21	08/01/2006	Shallow Gaspur	Primary	MW-21_20060801	< 0.5	**260 D**	**260 D**	**20**	**19**	**30 D**	**55 D**	**16**	**3.5**	**5.5**	**280**	NA
MW-21	03/01/2008	Shallow Gaspur	Primary	MW-21_20080301	< 0.5	**320 D**	**340 D**	**19**	**23 D**	**41 D**	**66 D**	**16**	**3.4**	**6.4**	**330 D**	NA
MW-21	05/13/2009	Shallow Gaspur	Primary	MW-21_20090513	< 5	**340 D**	**500 D**	**15**	**16**	**14**	**53**	**14**	**3.2 J**	**6.3**	< 2	NA
MW-21	07/15/2010	Shallow Gaspur	Primary	MW-21	< 1.2	**270**	**400**	**19**	**21**	**18 J**	**76 J**	**18**	**3.6**	**8.7**	**220 J**	**6**
MW-21	06/16/2011	Shallow Gaspur	Primary	MW-21-06162011	< 5	**310**	**580**	**20**	**28**	**20**	**89**	**23**	< 5	< 5	**190 J**	**7.2**
MW-21	12/09/2011	Shallow Gaspur	Primary	MW-21_20111209	< 5	**210**	**420**	**11**	**17**	**14**	**66**	**22**	< 5	**6.5**	**200 J**	< 5
MW-21	06/12/2012	Shallow Gaspur	Split	MW-21-061212-SPL	< 2	**120 D**	**340 D**	**11**	**19**	**26**	**54**	**18**	**2.8**	**6.8**	**120**	NA
MW-21	06/12/2012	Shallow Gaspur	Primary	MW-21-061212	< 5	**150**	**480**	**12**	**21**	**24**	**64**	**21**	< 5	< 5	**320**	< 5
MW-21	12/12/2012	Shallow Gaspur	Primary	MW-21-12122012	< 2.5	**290**	**630**	**26**	**30**	**26**	**100**	**29**	**3.3**	< 2.5	**390**	**26**
MW-21	12/12/2012	Shallow Gaspur	Primary	MW-21_121212	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**600 J**	NA
MW-21	06/18/2013	Shallow Gaspur	Primary	MW-21-061813	< 0.5	**210**	**490**	**25**	**24**	**18**	**100**	**18**	**1.5**	**6.9**	**140**	**1.8**
MW-21	06/18/2013	Shallow Gaspur	Duplicate	DUP2-061813	< 0.5	**200**	**460**	**23**	**22**	**17**	**93**	**17**	**1.4**	**6.3**	**140**	**1.8**
MW-21	12/13/2013	Shallow Gaspur	Primary	MW-21-121313	< 5	**170**	**510**	**26**	**25**	**19**	**91**	**19**	< 2	< 5	**180**	< 3
MW-21	12/13/2013	Shallow Gaspur	Duplicate	DUP6-121313	< 5	**170**	**570**	**26**	**26**	**15**	**81**	**15**	< 2	< 5	**180**	< 3
MW-21	06/10/2014	Shallow Gaspur	Primary	MW-21-061014	< 2.5	**160**	**530**	**22**	**23**	**9**	**83**	**16**	**1.6 J**	< 2.5	**200**	< 1.5
MW-21	06/10/2014	Shallow Gaspur	Duplicate	DUP01-061014	< 2.5	**160**	**540**	**23**	**23**	**9**	**85**	**16**	**1.8 J**	< 2.5	**200**	< 1.5
MW-21	12/18/2014	Shallow Gaspur	Primary	MW-21-121814	< 2.5	**86**	**600**	**24**	**27**	**11**	**98**	**15**	**2 J**	< 2.5	**230**	< 1.5
MW-21	06/09/2015	Shallow Gaspur	Primary	MW-21-060915	< 2.5	**59**	**690**	**32**	**39**	**30**	**140**	**35**	**2.4 J**	**8.6**	**300**	**19**
MW-21	12/10/2015	Shallow Gaspur	Primary	MW-21-121015	< 2.5	**20**	**700**	**24**	**35**	**22**	**110**	**22**	**2.6**	**10**	**450**	< 1.5
MW-21	06/08/2016	Shallow Gaspur	Primary	MW-21-060816	< 2.5	**7.7**	**670**	**27**	**31**	**30**	**110**	**26**	**3.7**	< 2.5	**330**	< 1.5
MW-21	12/02/2016	Shallow Gaspur	Primary	MW-21-120216	< 2.5	**16**	**660**	**15**	**26**	**36**	**76**	**18**	**3.4**	**8.6**	**250**	< 1.5
MW-21	06/08/2017	Shallow Gaspur	Primary	MW-21-060817	< 2.5	**5**	**430**	**7.6**	**18**	**8.8**	**33**	**10**	**2.7**	**7.4**	**160**	< 1.5
MW-21	12/07/2017	Shallow Gaspur	Primary	MW-21-120717	< 2.5	< 1	**280**	**3.7**	**11**	**5.6**	**16**	**5.5**	< 1	< 2.5	**44**	< 1.5
MW-21	06/07/2018	Shallow Gaspur	Primary	MW-21-060718	< 2.5	**1.6 J**	**180**	**3.3**	**5.4**	**7.4**	**18**	< 1.5	< 1	< 2.5	**22**	< 1.5
MW-21	06/07/2018	Shallow Gaspur	Duplicate	QC15-060718	< 2.5	**1.8 J**	**180**	**3.4**	**5.2**	**6**	**17**	< 1.5	< 1	< 2.5	**24**	< 1.5
MW-21	12/07/2018	Shallow Gaspur	Primary	MW-21-120718	< 2	**4.1**	**64**	**2**	**2.5**	**3.3**	**7.2**	< 1.2	**5.2**	< 2	**23**	< 1.2
MW-21	06/11/2019	Shallow Gaspur	Primary	MW-21-061119	< 0.5	**1.1**	**59**	**1.8**	**1.7**	**4.4 J**	**6.3**	**1.5 J**	**0.49 J**	**0.74**	**36**	< 0.3
MW-21	08/02/2019	Shallow Gaspur	Primary	MW-21-080219	< 0.5	**0.44 J**	**28**	**0.92**	**0.83**	**3 J**	**2.7 J**	< 0.2	**1.8 J**	< 0.3	**15**	**0.27 J**
MW-21	08/02/2019	Shallow Gaspur	Duplicate	QC04-080219	< 0.5	**0.56**	**37**	**1.2**	**1.1**	**4.8 J**	**3.8 J**	< 0.2	**2 J**	< 0.3	**16**	< 0.2
MW-21	12/06/2019	Shallow Gaspur	Primary	MW-21-120619	< 0.5	**0.54**	**17**	**0.52**	**0.62**	**1.4**	**1.3**	< 0.2	**2.1**	< 0.3	**7.1**	< 0.2
MW-21	12/06/2019	Shallow Gaspur	Duplicate	QC18-120619	< 0.5	**0.54**	**17**	**0.44 J**	**0.64**	**1.3**	**1.4**	< 0.2	**2**	< 0.3	**7.2**	< 0.2
MW-21	01/15/2020	Shallow Gaspur	Primary	MW-21-011520	< 0.5	< 0.5	**0.32 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3 J**	< 0.5
MW-21	01/22/2020	Shallow Gaspur	Primary	MW-21-012220	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-21	01/29/2020	Shallow Gaspur	Primary	MW-21-012920	< 0.5	< 0.5	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-21	02/05/2020	Shallow Gaspur	Primary	MW-21-020520	< 0.5	< 0.5	**2.4 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-21	02/19/2020	Shallow Gaspur	Primary	MW-21-021920	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-21	05/05/2020	Shallow Gaspur	Primary	MW-21-050520	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.5
MW-21	05/26/2020	Shallow Gaspur	Primary	MW-21-052620	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.5
MW-21	06/30/2020	Shallow Gaspur	Primary	MW-21-063020	< 0.5	< 0.5	**0.69**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4**	< 0.5
MW-21	07/29/2020	Shallow Gaspur	Primary	MW-21-072920	< 0.5	< 0.5	**0.4 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4.7**	< 0.5
MW-21	08/26/2020	Shallow Gaspur	Primary	MW-21-082620	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.4**	< 0.5
MW-21	09/24/2020	Shallow Gaspur	Primary	MW-21-092420	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.1**	< 0.5

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COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-21	10/13/2020	Shallow Gaspur	Primary	MW-21-101320	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6**	< 0.5
MW-21	10/19/2020	Shallow Gaspur	Primary	MW-21-101920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.2**	NA
MW-21	11/02/2020	Shallow Gaspur	Primary	MW-21-110220	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.9 J**	< 0.5 J
MW-21	11/23/2020	Shallow Gaspur	Primary	MW-21-112320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13**	NA
MW-21	12/01/2020	Shallow Gaspur	Primary	MW-21-120120	< 0.5	< 0.5	**0.93**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.5
MW-21	12/16/2020	Shallow Gaspur	Primary	MW-21-121620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**9.3 J**	NA
MW-21	12/23/2020	Shallow Gaspur	Primary	MW-21-122320	< 0.5	**0.47 J**	**2.2**	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	**6.9**	< 0.5 J
MW-21	12/31/2020	Shallow Gaspur	Primary	MW-21-123120	< 0.5	**0.33 J**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.8**	< 0.5
MW-21	01/13/2021	Shallow Gaspur	Primary	MW-21-011321	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.6 J**	NA
MW-21	01/27/2021	Shallow Gaspur	Primary	MW-21-012721	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.7**	< 0.5
MW-21	05/18/2021	Shallow Gaspur	Primary	MW-21-051821	< 0.5 J	**0.53**	**3.8**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**14 J**	< 0.5 J
MW-21	11/19/2021	Shallow Gaspur	Primary	MW-21-111921	< 0.5 J	**0.44 J**	**6.7**	**1.7**	**0.3 J**	< 0.5	**0.25 J**	< 0.5	< 0.5	< 0.5	**9.4**	< 0.5 J
MW-21	06/23/2022	Shallow Gaspur	Primary	MW-21-062322	< 0.5	**0.47 J**	**4.6**	**1.4**	< 0.5	< 0.5	< 0.5	**0.29 J**	< 0.5	< 0.5	**14**	< 0.005
MW-21	12/20/2022	Shallow Gaspur	Primary	MW-21-122022	< 0.5	**0.56**	**3.2**	**0.9**	< 0.5	< 0.5	< 0.5	**0.3 J**	< 0.5	< 0.5	< 2	< 0.005
MW-21	05/19/2023	Shallow Gaspur	Primary	MW-21-051923	< 0.5	< 0.5	**2.2**	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.4**	< 0.005
MW-21	05/19/2023	Shallow Gaspur	Duplicate	QC17-051923	< 0.5	< 0.5	**2**	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.3**	< 0.005
MW-21	12/01/2023	Shallow Gaspur	Primary	MW-21-120123	< 0.5	< 0.5	**5.5**	**0.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**14**	< 0.005
MW-21	05/07/2024	Shallow Gaspur	Primary	MW-21-050724	< 0.5	< 0.5	**3.8**	< 0.5	< 0.5	< 0.5	< 0.5	**0.28 J**	< 0.5	< 0.5	**5 J**	**0.047**
MW-21	11/22/2024	Shallow Gaspur	Primary	MW-21-112224	< 0.5	< 0.5	**10**	**0.44 J**	< 0.5	< 0.5	**0.22 J**	**0.39 J**	**0.76**	< 0.5	**5**	**0.22**
MW-22	01/01/2004	Shallow Gaspur	Primary	MW-22_20040101	< 0.5	**7.2**	**2.9**	< 0.5	**0.21 J**	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5	NA	NA
MW-22	11/01/2004	Shallow Gaspur	Primary	MW-22_20041101	< 0.5	**9.6**	**9.7**	< 0.5	**0.53**	**0.56**	**0.38 J**	< 0.5	**3.7**	< 0.5	**1.1**	NA
MW-22	08/01/2006	Shallow Gaspur	Primary	MW-22_20060801	< 0.5	**3.2**	**6.3**	< 0.5	< 0.24 J	< 0.5	**1.2**	< 0.5	**4.1**	< 0.5	**0.9**	NA
MW-22	03/01/2008	Shallow Gaspur	Primary	MW-22_20080301	< 0.5	**3.6**	**4.9**	< 0.5	**0.28 L**	**0.28 J**	**0.91**	< 0.5	< 0.5	< 0.5	**0.73 J**	NA
MW-22	05/18/2009	Shallow Gaspur	Primary	MW-22_20090518	< 0.5	**2.8**	**6.3 J**	< 0.5 J	**0.28 J**	< 0.5	**1.7**	< 0.5	**3.8**	< 0.5	**2.1**	NA
MW-22	12/06/2011	Shallow Gaspur	Primary	MW-22_20111206	< 0.5	**1.7**	**6.3**	< 0.5	< 0.5	< 0.5	**4**	< 0.5	**1.1**	< 0.5	**3.8 J**	< 0.5
MW-22	06/13/2012	Shallow Gaspur	Primary	MW-22-06132012	< 0.5	**2.2**	**6.9**	< 0.5	< 0.5	< 0.5	**3.7**	< 0.5	**0.96**	< 0.5	**4**	< 0.5
MW-22	12/11/2012	Shallow Gaspur	Primary	MW-22-12112012	< 0.5	**1.5**	**4.9**	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	< 0.5	**3.9 J**	< 0.5
MW-22	06/19/2013	Shallow Gaspur	Primary	MW-22-061913	< 0.5	**1.3**	**4.8**	< 0.3	< 0.4	< 0.5	**4.3**	< 0.3	< 0.2	< 0.5	**5 J**	< 0.3
MW-22	12/11/2013	Shallow Gaspur	Primary	MW-22-121113	< 0.5	**3.6**	**12**	< 0.3	**3.2**	< 0.5	**5.1**	< 0.3	**1.3**	< 0.5	**5.6**	< 0.3
MW-22	06/10/2014	Shallow Gaspur	Primary	MW-22-061014	< 0.5	**5.8**	**16**	< 0.3	**5.8**	< 0.5	**3.3**	**1.2**	**2.3**	< 0.5	**4.8**	< 0.3
MW-22	12/15/2014	Shallow Gaspur	Primary	MW-22-121514	< 0.5	**2.6**	**12**	< 0.3	**1.9**	< 0.5	**7.8**	**0.57**	**0.7**	< 0.5	**10**	< 0.3
MW-22	12/15/2014	Shallow Gaspur	Duplicate	DUP03-121514	< 0.5	**2.6**	**13**	< 0.3	**2**	< 0.5	**8.7**	**0.78**	**0.81**	< 0.5	**10**	< 0.3
MW-22	06/11/2015	Shallow Gaspur	Primary	MW-22-061115	< 0.5	**2**	**13**	< 0.3	**0.77**	< 0.5	**13**	**0.93 J**	< 0.2	< 0.5	**14**	< 0.3
MW-22	12/09/2015	Shallow Gaspur	Primary	MW-22-120915	< 0.5	**3.4**	**20**	**0.42 J**	< 0.4	< 0.5	**17**	**0.65**	< 0.2	< 0.5	**19**	< 0.3
MW-22	06/08/2016	Shallow Gaspur	Primary	MW-22-060816	< 0.5	**2.8**	**14**	**0.61**	**0.54**	< 0.5	**9.2**	**0.63**	< 0.2	< 0.5	**12**	< 0.3
MW-22	12/01/2016	Shallow Gaspur	Primary	MW-22-120116	< 0.5	**2.2**	**13**	**0.53**	**0.7**	< 0.5	**5**	**0.58**	**1.1**	< 0.5	**11**	< 0.3
MW-22	06/07/2017	Shallow Gaspur	Primary	MW-22-060717	< 0.5	**1.8**	**9.7**	< 0.3	**0.77**	< 0.5	**2.7**	**0.39 J**	**0.73**	< 0.5	**13**	< 0.3
MW-22	12/06/2017	Shallow Gaspur	Primary	MW-22-120617	< 0.5	**2.7**	**16**	**0.5**	**0.69**	< 0.5	**5.8**	**0.79**	**0.4 J**	< 0.5	**11**	< 0.3
MW-22	06/06/2018	Shallow Gaspur	Primary	MW-22-060618	< 0.5	**3.4**	**20**	< 0.3	**0.8**	< 0.5	**8.7**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-22	12/05/2018	Shallow Gaspur	Primary	MW-22-120518	< 0.5	**3.5**	**12**	< 0.3	< 0.4	< 0.5	**3.8**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-22	12/05/2018	Shallow Gaspur	Duplicate	QC10-120518	< 0.5	**3.5**	**13**	< 0.3	< 0.4	< 0.5	**4**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-22	06/12/2019	Shallow Gaspur	Primary	MW-22-061219	< 0.5	**3.3**	**16**	< 0.3	**0.63**	< 0.5	**5.6**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-22	12/04/2019	Shallow Gaspur	Primary	MW-22-120419	< 0.5	**3.2**	**11**	< 0.4	**0.68**	< 0.4	**1.8**	**0.67**	< 0.4	< 0.3	**8.2**	< 0.2

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-22	06/10/2020	Shallow Gaspur	Primary	MW-22-061020	< 0.5	**4.8**	**22**	**0.46 J**	**0.89**	< 0.5	**6.2**	**0.56**	< 0.5	< 0.5	**14**	< 0.5
MW-22	11/17/2020	Shallow Gaspur	Primary	MW-22-111720	< 0.5	**4.8**	**16**	**0.68**	**1.1**	< 0.5	**2.5**	**0.91**	< 0.5	< 0.5	**7**	< 0.5
MW-22	05/19/2021	Shallow Gaspur	Primary	MW-22-051921	< 0.5	**2.9**	**14**	< 0.5	**0.75**	< 0.5	**2.7**	**0.76**	< 0.5	< 0.5	**14**	< 0.5
MW-22	11/17/2021	Shallow Gaspur	Primary	MW-22-111721	< 0.5 J	**3.3 J**	**18 J**	**0.56**	**0.88**	< 0.5	**4.6**	< 0.5	< 0.5	< 0.5	**16**	< 0.5 J
MW-22	06/22/2022	Shallow Gaspur	Primary	MW-22-062222	< 0.5	**5**	**13**	**0.65**	**0.95**	< 0.5	**2.2**	**0.48 J**	< 0.5	< 0.5	**17**	< 0.005
MW-22	12/12/2022	Shallow Gaspur	Primary	MW-22-121222	< 0.5	**7.1**	**10**	< 0.5	**0.92**	< 0.5	**3.6**	**0.79**	< 0.5	< 0.5	**11**	< 0.005
MW-22	05/17/2023	Shallow Gaspur	Primary	MW-22-051723	< 0.5	**2.9**	**6.8**	< 0.5	**0.46 J**	< 0.5	**1.3**	**0.23 J**	< 0.5	< 0.5	**7.2 J**	< 0.005
MW-22	11/29/2023	Shallow Gaspur	Primary	MW-22-112923	< 0.5	**2.1**	**9.7**	< 0.5	**0.81**	< 0.5	**0.39 J**	< 0.5	< 0.5	< 0.5	**3.4 J**	< 0.005
MW-22	05/08/2024	Shallow Gaspur	Primary	MW-22-050824	< 0.5	**3.7**	**6.1**	< 0.5	**0.41 J**	< 0.5	**0.98**	< 0.5	< 0.5	< 0.5	**9**	< 0.005
MW-22	11/21/2024	Shallow Gaspur	Primary	MW-22-112124	< 0.5	**1 J**	**4.6**	< 0.5	< 0.5	< 0.5	**0.83**	< 0.5	< 0.5	< 0.5	**3.8**	< 0.005
MW-23	01/01/2004	Shallow Gaspur	Primary	MW-23_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-23	11/01/2004	Shallow Gaspur	Primary	MW-23_20041101	< 0.5	< 0.5	**0.69**	< 0.5	< 0.5	< 0.5	**0.21 J**	< 0.5	< 0.5	< 0.5	**2.7**	NA
MW-23	08/01/2006	Shallow Gaspur	Primary	MW-23_20060801	< 0.5	< 0.5	**0.95**	< 0.5	< 0.5	< 0.5	**0.6**	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-23	03/01/2008	Shallow Gaspur	Primary	MW-23_20080301	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	< 0.5	**0.54**	**0.43 J**	< 0.5 J	< 0.5	**0.64 J**	NA
MW-23	05/19/2009	Shallow Gaspur	Primary	MW-23_20090519	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**0.93 J**	**0.6 J**	< 0.5	< 0.5	< 2	NA
MW-23	07/14/2010	Shallow Gaspur	Primary	MW-23	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.8	< 0.5
MW-23	06/14/2011	Shallow Gaspur	Primary	MW-23-06142011	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	**12**	< 0.5
MW-23	12/06/2011	Shallow Gaspur	Primary	MW-23_20111206	< 0.5	**0.52**	**1.3**	**0.76**	< 0.5	< 0.5	**1.3**	**0.58**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-23	06/08/2012	Shallow Gaspur	Primary	MW-23-06082012	< 0.5	**0.64**	**1.6**	**0.9**	< 0.5	< 0.5	**1.4**	**0.68**	< 0.5	< 0.5	**3.7 J**	< 0.5
MW-23	12/11/2012	Shallow Gaspur	Primary	MW-23-12112012	< 0.5	**0.53**	**0.98**	**0.63**	< 0.5	< 0.5	**0.94**	**0.56**	< 0.5	< 0.5	**4.5**	< 0.5
MW-23	06/18/2013	Shallow Gaspur	Primary	MW-23-061813	< 0.5	**0.65**	**1.2**	**1.1**	< 0.4	< 0.5	**1.2**	< 0.3	< 0.2	< 0.5	**4.8**	< 0.3
MW-23	12/12/2013	Shallow Gaspur	Primary	MW-23-121213	< 0.5	**2.3**	**2.3**	**1.3**	< 0.4	< 0.5	**1.3**	< 0.3	< 0.2	< 0.5	**5**	< 0.3
MW-23	12/18/2014	Shallow Gaspur	Primary	MW-23-121814	< 0.5	**1.4**	**1.9**	**0.56**	< 0.4	< 0.5	**0.3 J**	**0.42 J**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-23	12/08/2015	Shallow Gaspur	Primary	MW-23-120815	< 0.5	**4.8**	**5.2**	**1.8**	< 0.4	< 0.5	**1.6**	**0.74**	< 0.2	< 0.5	**4.1**	< 0.3
MW-23	06/09/2016	Shallow Gaspur	Primary	MW-23-060916	< 0.5	**9.3**	**5.1**	**2.9**	< 0.4	< 0.5	**1.6**	**0.8**	< 0.2	< 0.5	**5**	< 0.3
MW-23	12/01/2016	Shallow Gaspur	Primary	MW-23-120116	< 0.5	**16**	**5.8**	**3.4**	**0.41 J**	< 0.5	**1.8**	**0.71**	< 0.2	< 0.5	**8.4**	< 0.3
MW-23	06/06/2017	Shallow Gaspur	Primary	MW-23-060617	< 0.5	**18**	**4.7**	**2.8**	< 0.4	**0.58**	**1.3**	< 0.3	< 0.2	< 0.5	**11**	< 0.3
MW-23	12/08/2017	Shallow Gaspur	Primary	MW-23-120817	< 0.5	**2.4**	**16**	**1.5**	< 0.4	< 0.5	**1.3**	**0.76**	< 0.2	< 0.5	**5.9**	< 0.3
MW-23	06/07/2018	Shallow Gaspur	Primary	MW-23-060718	< 0.5	**20**	**7.2**	**2.8**	< 0.4	< 0.5	**2**	**1**	< 0.2	< 0.5	**5.2**	< 0.3
MW-23	12/05/2018	Shallow Gaspur	Primary	MW-23-120518	< 0.5	**9.8**	**6.4**	**1.8**	< 0.4	< 0.5	**0.95**	< 0.3	< 0.2	< 0.5	**5.7**	< 0.3
MW-23	06/11/2019	Shallow Gaspur	Primary	MW-23-061119	< 0.5	**14**	**6.2**	**2.3**	< 0.3	< 0.4	**1.3**	< 0.2	< 0.4	< 0.3	**5.6**	< 0.2
MW-23	12/04/2019	Shallow Gaspur	Primary	MW-23-120419	< 0.5	**14**	**6.2**	**1.9**	**0.35 J**	< 0.4	**1**	**0.56**	< 0.4	< 0.3	**5.4**	< 0.2
MW-23	06/11/2020	Shallow Gaspur	Primary	MW-23-061120	< 0.5	**14**	**9.8**	**1.8**	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	**4.8**	< 0.5
MW-23	11/19/2020	Shallow Gaspur	Primary	MW-23-111920	< 0.5	**27**	**8.7**	**2.1**	**0.56**	< 0.5	**1**	**0.54**	< 0.5	< 0.5	**6 J**	< 0.5
MW-23	05/20/2021	Shallow Gaspur	Primary	MW-23-052021	< 0.5	**13**	**6**	**1.5**	< 0.5	< 0.5	**0.65**	**0.51**	< 0.5	< 0.5	**6**	< 0.5
MW-23	11/17/2021	Shallow Gaspur	Primary	MW-23-111721	< 0.5	**4.2 J**	**4.4**	**2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.6**	< 0.5
MW-23	06/23/2022	Shallow Gaspur	Primary	MW-23-062322	< 0.5	**1.6**	**2.4**	**1.3**	< 0.5	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	**5.1**	**0.0099**
MW-23	06/23/2022	Shallow Gaspur	Duplicate	QC14-062322	< 0.5	**2**	**2.6**	**1.3**	< 0.5	< 0.5	< 0.5	**0.41 J**	< 0.5	< 0.5	**5.1**	**0.0093**
MW-23	12/15/2022	Shallow Gaspur	Primary	MW-23-121522	< 0.5	**1.2**	**1.6**	**0.8 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.3**	**0.014**
MW-23	05/19/2023	Shallow Gaspur	Primary	MW-23-051923	< 0.5	< 0.99	**1.5**	**0.97**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**8.5**	**0.015**
MW-23	05/19/2023	Shallow Gaspur	Duplicate	QC21-051923	< 0.5	< 0.99	**1.2**	**0.84**	< 0.5	< 0.5	< 0.5	**0.31 J**	< 0.5	< 0.5	**9.7**	**0.013**
MW-23	11/30/2023	Shallow Gaspur	Primary	MW-23-113023	< 0.5	**0.79**	**1.6**	**1.4**	< 0.5	< 0.5	**0.22 J**	**0.33 J**	< 0.5	< 0.5	**12**	**0.0087 J**
MW-23	11/30/2023	Shallow Gaspur	Duplicate	QC-15-113023	< 0.5	**0.89**	**2**	**1.5**	< 0.5	< 0.5	**0.23 J**	**0.42 J**	< 0.5	< 0.5	**11**	**0.01 J**

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-23	05/09/2024	Shallow Gaspur	Primary	MW-23-050924	< 0.5	**0.97**	**1.9**	**1**	< 0.5	< 0.5	< 0.5	**0.35 J**	< 0.5	< 0.5	**8**	**0.0063**
MW-23	05/09/2024	Shallow Gaspur	Duplicate	QC22-050924	< 0.5	**0.87**	**2**	**0.82**	< 0.5	< 0.5	< 0.5	**0.31 J**	< 0.5	< 0.5	**7.2**	**0.0059**
MW-23	11/20/2024	Shallow Gaspur	Primary	MW-23-112024	< 0.5	**2.1 J**	**4.1**	**1.1**	< 0.5	< 0.5	< 0.5	**0.4 J**	< 0.5	< 0.5	**2.8**	**0.0082**
MW-23	11/20/2024	Shallow Gaspur	Duplicate	QC09-112024	< 0.5	**2.6 J**	**4.9**	**1.4**	< 0.5	< 0.5	< 0.5	**0.52 J**	< 0.5	< 0.5	**2.8**	**0.0086**
MW-23A	07/27/2011	Shallow Gaspur	Primary	MW-23A-07272011	< 0.5	**35**	**5.9**	**1.3**	< 0.5	< 0.5	**0.57**	**10**	< 0.5	< 0.5	**2.9**	< 0.5
MW-23A	09/27/2011	Shallow Gaspur	Primary	MW-23A-09272011	< 0.5	**19**	**4.7**	**0.93**	< 0.5	< 0.5	< 0.5	**4.6**	< 0.5	< 0.5	< 0.95	< 0.5
MW-23A	12/06/2011	Shallow Gaspur	Primary	MW-23A_20111206	< 0.5	**17**	**4.1**	**1.1**	< 0.5	< 0.5	< 0.5	**3.6**	< 0.5	< 0.5	**3 J**	< 0.5
MW-23A	03/26/2012	Shallow Gaspur	Primary	MW-23A-03262012	< 0.5	**14**	**4.7**	**0.92**	< 0.5	< 0.5	< 0.5	**3.2**	< 0.5	< 0.5	**3 J**	< 0.5
MW-23A	06/08/2012	Shallow Gaspur	Primary	MW-23A-06082012	< 0.5	**6.4**	**8.3**	**1**	< 0.5	< 0.5	**0.53**	**2.8**	< 0.5	< 0.5	**2.9 J**	< 0.5
MW-23A	12/12/2012	Shallow Gaspur	Primary	MW-23A-12122012	< 0.5	**1.8**	**4.3**	**0.53**	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	**3.5**	< 0.5
MW-23A	06/18/2013	Shallow Gaspur	Primary	MW-23A-061813	< 0.5	**5.6**	**6.7**	**0.89**	< 0.4	< 0.5	**1.1**	**1.8**	< 0.2	< 0.5	**2.7**	< 0.3
MW-23A	12/11/2013	Shallow Gaspur	Primary	MW-23A-121113	< 0.5	**8.5**	**12**	**1.2**	< 0.4	< 0.5	**0.86**	**2.4**	< 0.2	< 0.5	**3**	< 0.3
MW-23A	06/10/2014	Shallow Gaspur	Primary	MW-23A-061014	< 0.5	**7.8**	**7.5**	< 0.3	< 0.4	< 0.5	< 0.2	**1.9**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	12/16/2014	Shallow Gaspur	Primary	MW-23A-121614	< 0.5	**4.9**	**10**	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	**2.4**	< 0.3
MW-23A	06/11/2015	Shallow Gaspur	Primary	MW-23A-061115	< 0.5	**4.3**	**6.1**	**0.48 J**	< 0.4	< 0.5	< 0.2	**1.2 J**	< 0.2	< 0.5	**4.5**	< 0.3
MW-23A	12/08/2015	Shallow Gaspur	Primary	MW-23A-120815	< 0.5	**7.8**	**4.3**	**0.42 J**	< 0.4	< 0.5	< 0.2	**1.3**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	06/09/2016	Shallow Gaspur	Primary	MW-23A-060916	< 0.5	**3.6**	**2.6**	**0.56**	< 0.4	< 0.5	< 0.2	**1**	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-23A	12/01/2016	Shallow Gaspur	Primary	MW-23A-120116	< 0.5	**2.8**	**2.6**	**0.35 J**	< 0.4	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**2.9**	< 0.3
MW-23A	06/06/2017	Shallow Gaspur	Primary	MW-23A-060617	< 0.5	**2.4**	**1.9**	**0.57**	< 0.4	< 0.5	< 0.2	**0.74**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	06/06/2017	Shallow Gaspur	Duplicate	QC03-060617	< 0.5	**1.9**	**1.8**	**0.6**	< 0.4	< 0.5	< 0.2	**0.68**	< 0.2	< 0.5	**3.4**	< 0.3
MW-23A	12/08/2017	Shallow Gaspur	Primary	MW-23A-120817	< 0.5	**2.3**	**1.9**	**0.41 J**	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	**2.6**	< 0.3
MW-23A	06/07/2018	Shallow Gaspur	Primary	MW-23A-060718	< 0.5	**3.4**	**2.7**	**0.55**	< 0.4	< 0.5	< 0.2	**1.5**	< 0.2	< 0.5	**1.6 J**	< 0.3
MW-23A	12/04/2018	Shallow Gaspur	Primary	MW-23A-120418	< 0.5	**1.9**	**1.8**	**0.38 J**	< 0.4	< 0.5	< 0.2	**0.93**	< 0.2	< 0.5	**1.9 J**	< 0.3
MW-23A	06/14/2019	Shallow Gaspur	Primary	MW-23A-061419	< 0.5	**2**	**1.7**	< 0.4	< 0.3	< 0.4	< 0.2	**0.91**	< 0.4	< 0.3	**1.6 J**	< 0.2
MW-23B	05/19/2009	Lower Gaspur	Primary	MW-23B_20090519	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	< 2	NA
MW-23B	07/14/2010	Lower Gaspur	Primary	MW-23B	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.8 J	< 0.5
MW-23B	06/14/2011	Lower Gaspur	Primary	MW-23B-06142011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-23B	12/05/2011	Lower Gaspur	Primary	MW-23B_20111205	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-23B	06/12/2012	Lower Gaspur	Primary	MW-23B-061212	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.62**	< 0.5	< 0.5	< 0.95	< 0.5
MW-23B	12/11/2012	Lower Gaspur	Primary	MW-23B-12112012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-23B	12/11/2012	Lower Gaspur	Duplicate	DUP2-12112012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-23B	12/11/2013	Lower Gaspur	Primary	MW-23B-121113	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/16/2014	Lower Gaspur	Primary	MW-23B-121614	< 0.5	**0.27 J**	**0.67**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/08/2015	Lower Gaspur	Primary	MW-23B-120815	< 0.5	**0.4 J**	**0.57**	< 0.3	< 0.4	< 0.5	< 0.2	**0.38 J**	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/01/2016	Lower Gaspur	Primary	MW-23B-120116	< 0.5	**0.34 J**	**0.5**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/08/2017	Lower Gaspur	Primary	MW-23B-120817	< 0.5	**0.33 J**	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**0.54**	< 0.2	< 0.5	< 1	< 0.3
MW-23B	06/07/2018	Lower Gaspur	Primary	MW-23B-060718	< 0.5	**0.61**	**0.48 J**	< 0.3	< 0.4	< 0.5	< 0.2	**0.82**	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/05/2018	Lower Gaspur	Primary	MW-23B-120518	< 0.5	**0.47 J**	**0.51 J+**	< 0.3	< 0.4	< 0.5	< 0.2	**0.82**	< 0.2	< 0.5	< 1	< 0.3
MW-23B	06/11/2019	Lower Gaspur	Primary	MW-23B-061119	< 0.5	**0.39 J**	**0.42 J**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-23B	12/04/2019	Lower Gaspur	Primary	MW-23B-120419	< 0.5	**0.49 J**	**0.58**	< 0.4	< 0.3	< 0.4	< 0.2	**0.81**	< 0.4	< 0.3	**1 J**	< 0.2
MW-23B	12/04/2019	Lower Gaspur	Duplicate	QC07-120419	< 0.5	**0.51**	**0.63**	< 0.4	< 0.3	< 0.4	< 0.2	**0.78**	< 0.4	< 0.3	< 1	< 0.2
MW-23B	06/11/2020	Lower Gaspur	Primary	MW-23B-061120	< 0.5	**1.1**	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 2	< 0.5
MW-23B	11/19/2020	Lower Gaspur	Primary	MW-23B-111920	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**3.4**	< 0.5	< 0.5	**0.69 J**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-23B	05/20/2021	Lower Gaspur	Primary	MW-23B-052021	< 0.5	**0.94**	**0.63**	< 0.5	< 0.5	< 0.5	< 0.5	**0.89**	< 0.5	< 0.5	**0.64 J**	< 0.5
MW-23B	11/17/2021	Lower Gaspur	Primary	MW-23B-111721	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-23B	11/17/2021	Lower Gaspur	Duplicate	QC11-111721	< 0.5 J	**1.1 J**	**0.99**	< 0.5	< 0.5	< 0.5	< 0.5	**0.98 J+**	< 0.5	< 0.5	**5.2 J**	< 0.5 J
MW-23B	06/23/2022	Lower Gaspur	Primary	MW-23B-062322	< 0.5	**0.48 J**	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	**0.98**	< 0.5	< 0.5	< 2	**0.0082**
MW-23B	12/15/2022	Lower Gaspur	Primary	MW-23B-121522	< 0.5	**0.37 J**	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5	**0.85**	< 0.5	< 0.5	**0.59 J**	**0.0076**
MW-23B	12/15/2022	Lower Gaspur	Duplicate	QC15-121522	< 0.5	< 0.5	**0.74**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.64 J**	**0.0056**
MW-23B	05/18/2023	Lower Gaspur	Primary	MW-23B-051823	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 2	**0.0093**
MW-23B	11/30/2023	Lower Gaspur	Primary	MW-23B-113023	< 0.5	< 0.5	**0.35 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	**0.0089 J**
MW-23B	05/09/2024	Lower Gaspur	Primary	MW-23B-050924	< 0.5	< 0.5	**0.82**	< 0.5	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	< 1	< 0.005
MW-23B	11/20/2024	Lower Gaspur	Primary	MW-23B-112024	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	**0.81 J**	< 0.5	< 0.5	< 1	< 0.005
MW-24	01/01/2004	Shallow Gaspur	Primary	MW-24_20040101	< 0.5	**3.1**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	NA	NA
MW-24	11/01/2004	Shallow Gaspur	Primary	MW-24_20041101	< 0.5	**3.1**	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 1	NA
MW-24	08/01/2006	Shallow Gaspur	Primary	MW-24_20060801	< 0.5	**2.1**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 1	NA
MW-24	03/01/2008	Shallow Gaspur	Primary	MW-24_20080301	< 0.5	**11**	**6.5**	**0.21 J**	**1.6**	**0.26 J**	< 0.5	**2.7**	< 0.5	< 0.5	< 2	NA
MW-24	05/17/2009	Shallow Gaspur	Primary	MW-24_20090517	< 0.5	**19**	**12**	< 0.5	**3.3**	< 0.5	< 0.5 J	**2.8 J**	**1.2**	< 0.5	< 2	NA
MW-24	06/15/2011	Shallow Gaspur	Primary	MW-24-06152011	< 0.5	**8.3**	**7.8**	< 0.5	**2.5**	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 4.2	< 0.5
MW-24	12/06/2011	Shallow Gaspur	Primary	MW-24_20111206	< 0.5	**3.5**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	**0.57**	< 0.5	< 0.5	< 0.94	< 0.5
MW-24	06/08/2012	Shallow Gaspur	Primary	MW-24-06082012	< 0.5	**3.9**	**2.9**	< 0.5	**0.92**	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.94	< 0.5
MW-24	12/11/2012	Shallow Gaspur	Primary	MW-24-12112012	< 0.5	**3.9**	**2.6**	< 0.5	**0.7**	< 0.5	< 0.5	**0.71**	< 0.5	< 0.5	< 0.95	< 0.5
MW-24	06/18/2013	Shallow Gaspur	Primary	MW-24-061813	< 0.5	**1.5**	**1**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.35 J**	< 0.5	< 1	< 0.3
MW-24	12/12/2013	Shallow Gaspur	Primary	MW-24-121213	< 0.5	**0.89**	**0.61**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.22 J**	< 0.5	< 1	< 0.3
MW-24	12/12/2013	Shallow Gaspur	Duplicate	DUP4-121213	< 0.5	**1.1**	**0.73**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.25 J**	< 0.5	< 1	< 0.3
MW-24	12/18/2014	Shallow Gaspur	Primary	MW-24-121814	< 0.5	**1.7**	**2.6**	< 0.3	**0.54**	< 0.5	< 0.2	**0.33 J**	**0.29 J**	< 0.5	< 1	< 0.3
MW-24	12/08/2015	Shallow Gaspur	Primary	MW-24-120815	< 0.5	**2.6**	**5.5**	< 0.3	**0.72**	< 0.5	< 0.2	**0.84**	**0.58**	< 0.5	< 1	< 0.3
MW-24	06/07/2016	Shallow Gaspur	Primary	MW-24-060716	< 0.5	**1.7**	**3.6**	< 0.3	**0.66**	< 0.5	< 0.2	**0.66**	**0.43 J**	< 0.5	< 1	< 0.3
MW-24	11/28/2016	Shallow Gaspur	Primary	MW-24-112816	< 0.5	**1.6**	**4.1**	< 0.3	**0.59**	< 0.5	< 0.2	**0.6**	**0.29 J**	< 0.5	< 1	< 0.3
MW-24	11/28/2016	Shallow Gaspur	Duplicate	QC01-112816	< 0.5	**1.7**	**4.2**	< 0.3	**0.56**	< 0.5	< 0.2	**0.58**	**0.32 J**	< 0.5	< 1	< 0.3
MW-24	06/06/2017	Shallow Gaspur	Primary	MW-24-060617	< 0.5	**0.6**	**0.48 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-24	12/05/2017	Shallow Gaspur	Primary	MW-24-120517	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-24	12/06/2018	Shallow Gaspur	Primary	MW-24-120618	< 0.5	**1.4 J**	**3 J**	< 0.3	**0.54**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-24	12/04/2019	Shallow Gaspur	Primary	MW-24-120419	< 0.5	**1.2**	**3.1**	< 0.4	**0.49 J**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**1 J**	< 0.2
MW-24	11/17/2020	Shallow Gaspur	Primary	MW-24-111720	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-24	11/16/2021	Shallow Gaspur	Primary	MW-24-111621	< 0.5	**0.9 J**	**4.5**	< 0.5	**0.77**	< 0.5	**0.24 J**	**0.63**	< 0.5	< 0.5	**1 J**	< 0.5
MW-24	06/23/2022	Shallow Gaspur	Primary	MW-24-062322	< 0.5	**0.83**	**4**	< 0.5	**0.66**	< 0.5	< 0.5	**0.63**	< 0.5	< 0.5	**1.2 J**	< 0.005
MW-24	12/12/2022	Shallow Gaspur	Primary	MW-24-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-24	05/18/2023	Shallow Gaspur	Primary	MW-24-051823	< 0.5	**1.3**	**9.8**	< 0.5	**2.3**	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 2	< 0.005
MW-24	11/30/2023	Shallow Gaspur	Primary	MW-24-113023	< 0.5	**1.1**	**8.9**	< 0.5	**2.7**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 2	< 0.005
MW-24	05/09/2024	Shallow Gaspur	Primary	MW-24-050924	< 0.5	**0.91**	**13**	< 0.5	**4.4**	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	**1**	< 0.005
MW-24	11/21/2024	Shallow Gaspur	Primary	MW-24-112124	< 0.5	**0.32 J**	**7**	< 0.5	**2.1**	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	< 1	< 0.005
MW-25	01/01/2004	Intermediate Gaspur	Primary	MW-25_20040101	**0.33 J**	**50 D**	**40 D**	**1.7**	**2.9**	**0.75**	**4.7 J**	**3.3**	**0.35 J**	< 0.5	NA	NA
MW-25	07/01/2004	Intermediate Gaspur	Primary	MW-25_20040701	< 0.5	**62 D**	**64 D**	**1.2**	**3.3**	**0.7**	**2.2**	**3**	**0.36 J**	**0.83**	**9.6**	NA
MW-25	08/01/2006	Intermediate Gaspur	Primary	MW-25_20060801	< 0.5	**20**	**44 D**	**0.79**	**2.3**	< 0.5	**1.1**	**2.5**	**0.32 J**	< 0.5	**4.3**	NA
MW-25	03/01/2008	Intermediate Gaspur	Primary	MW-25_20080301	< 0.5	**12**	**22 D**	**0.27 J**	**1.7**	**0.32 J**	**0.4 J**	**1.7**	**0.47 J**	< 0.5	**1.7 J**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-25	05/17/2009	Intermediate Gaspur	Primary	MW-25_20090517	< 0.5	**9.2**	**22 D**	< 0.5	**2**	< 0.5	**0.37 J**	< 0.5	**0.83**	< 0.5	< 2	NA
MW-25	06/15/2011	Intermediate Gaspur	Primary	MW-25-06152011	< 0.5	**3.8**	**21**	< 0.5	**3.1**	< 0.5	< 0.5	**1.7**	**1.1**	< 0.5	**2.2 J**	< 0.5
MW-25	12/06/2011	Intermediate Gaspur	Primary	MW-25_20111206	< 0.5	**3.6**	**21**	< 0.5	**4**	< 0.5	< 0.5	**2**	**1.1**	< 0.5	**1.4**	< 0.5
MW-25	06/12/2012	Intermediate Gaspur	Primary	MW-25-06122012	< 0.5	**3.4**	**21**	< 0.5	**3.9**	< 0.5	< 0.5	**2.1**	**1.4**	< 0.5	**1.4**	< 0.5
MW-25	12/10/2012	Intermediate Gaspur	Primary	MW-25-12102012	< 0.5	**2.8**	**27**	< 0.5	**4.8**	< 0.5	< 0.5	**1.9**	**1.6**	< 0.5	**1.8**	< 0.5
MW-25	12/10/2012	Intermediate Gaspur	Duplicate	DUP1-12102012	< 0.5	**2.8**	**26**	< 0.5	**4.8**	< 0.5	< 0.5	**1.8**	**1.5**	< 0.5	**2.5**	< 0.5
MW-25	06/19/2013	Intermediate Gaspur	Primary	MW-25-061913	< 0.5	**2**	**19**	< 0.3	**4.2**	< 0.5	< 0.2	**1.4**	**0.96**	< 0.5	**1.7 J**	< 0.3
MW-25	12/09/2013	Intermediate Gaspur	Primary	MW-25-120913	< 0.5	**1.9**	**25**	< 0.3	**5.9**	< 0.5	**0.38 J**	**1.4**	**1.3**	< 0.5	**1.5 J**	< 0.3
MW-25	06/10/2014	Intermediate Gaspur	Primary	MW-25-061014	< 0.5	**1.8**	**21**	< 0.3	**4.7**	< 0.5	< 0.2	**1.2**	**0.94**	< 0.5	**2**	< 0.3
MW-25	12/19/2014	Intermediate Gaspur	Primary	MW-25-121914	< 0.5	**1.2**	**21**	< 0.3	**4.2**	< 0.5	< 0.2	**1.1**	**0.76**	< 0.5	**1.1 J**	< 0.3
MW-25	06/08/2015	Intermediate Gaspur	Primary	MW-25-060815	< 0.5	**1.8**	**24**	< 0.3	**7.2**	< 0.5	**0.38 J**	**2.1**	**1.5**	< 0.5	**1.4 J**	< 0.3
MW-25	12/10/2015	Intermediate Gaspur	Primary	MW-25-121015	< 0.5	**3**	**23**	< 0.3	**7.7**	< 0.5	< 0.2	**1.7**	**0.4 J**	< 0.5	< 1	< 0.3
MW-25	06/08/2016	Intermediate Gaspur	Primary	MW-25-060816	< 0.5	**3.4**	**27**	**0.39 J**	**7.8**	< 0.5	< 0.2	**2.2**	**1.6**	< 0.5	< 1	< 0.3
MW-25	11/28/2016	Intermediate Gaspur	Primary	MW-25-112816	< 0.5	**2.2**	**26**	< 0.3	**8.1**	< 0.5	< 0.2	**1.8**	**0.48 J**	< 0.5	< 1	< 0.3
MW-25	06/07/2017	Intermediate Gaspur	Primary	MW-25-060717	< 0.5	**1.4**	**21**	< 0.3	**7.8**	< 0.5	**0.61**	**1.5**	< 0.2	< 0.5	**2.1**	< 0.3
MW-25	12/07/2017	Intermediate Gaspur	Primary	MW-25-120717	< 0.5	**0.55**	**14**	< 0.3	**3.1**	< 0.5	**0.36 J**	**0.84**	< 0.2	< 0.5	**2 J**	< 0.3
MW-25	06/07/2018	Intermediate Gaspur	Primary	MW-25-060718	< 0.5	**0.67**	**25**	< 0.3	**7**	< 0.5	**1.4**	**1.6**	< 0.2	< 0.5	**2.4**	< 0.3
MW-25	12/06/2018	Intermediate Gaspur	Primary	MW-25-120618	< 0.5	**0.58**	**21**	< 0.3	**6**	< 0.5	**0.78**	< 0.3	< 0.2	< 0.5	**2 J**	< 0.3
MW-25	06/14/2019	Intermediate Gaspur	Primary	MW-25-061419	< 0.5	**0.48 J**	**22**	< 0.4	**5.7**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**2**	< 0.2
MW-25	06/14/2019	Intermediate Gaspur	Duplicate	QC20-061419	< 0.5	**0.46 J**	**24**	< 0.4	**6.4**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**2.1**	< 0.2
MW-25	12/05/2019	Intermediate Gaspur	Primary	MW-25-120519	< 0.5	**0.46 J**	**22**	< 0.4	**6.8**	**0.66**	**0.81**	**1.6**	< 0.4	< 0.3	**3.7**	< 0.2
MW-25	06/09/2020	Intermediate Gaspur	Primary	MW-25-060920	< 0.5	< 0.5	**0.71**	< 0.5	**0.66**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.5
MW-25	11/17/2020	Intermediate Gaspur	Primary	MW-25-111720	< 0.5	< 0.5	**1.4 J**	< 0.5	**1.2 J**	**4.6 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.5
MW-25	11/17/2020	Intermediate Gaspur	Duplicate	QC05-111720	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-25	05/19/2021	Intermediate Gaspur	Primary	MW-25-051921	< 0.5	**0.3 J**	**19**	< 0.5	**5**	< 0.5	**0.66**	**1.6**	< 0.5	< 0.5	**2.3**	< 0.5
MW-25	11/16/2021	Intermediate Gaspur	Primary	MW-25-111621	< 0.5 J	< 0.5 J	**13**	< 0.5	**4.1**	< 0.5	**1**	**1.2**	< 0.5	< 0.5	**3.3**	< 0.5 J
MW-25	06/24/2022	Intermediate Gaspur	Primary	MW-25-062422	< 0.5	< 0.5	**11**	< 0.5	**2.6**	**0.99**	**0.77**	**1**	< 0.5	< 0.5	**3.8**	**0.03**
MW-25	12/12/2022	Intermediate Gaspur	Primary	MW-25-121222	< 0.5	< 0.5	**15**	< 0.5	**3.7**	**1**	**0.41 J**	**0.81**	< 0.5	< 0.5	**2.4**	**0.024**
MW-25	05/17/2023	Intermediate Gaspur	Primary	MW-25-051723	< 0.5	< 0.5	**9**	< 0.5	**2.3**	< 0.5	**0.58**	**0.89**	< 0.5	< 0.5	**3.2**	**0.016**
MW-25	12/01/2023	Intermediate Gaspur	Primary	MW-25-120123	< 0.5	< 0.5	**11**	< 0.5	**2.9**	**0.67**	**0.31 J**	**0.95**	< 0.5	< 0.5	**1.9 J**	**0.016**
MW-25	05/06/2024	Intermediate Gaspur	Primary	MW-25-050624	< 0.5	< 0.5	**33**	< 0.5	**12**	**0.65**	< 0.5	**3.1**	**2.8**	< 0.5	< 1	**0.0083**
MW-25	11/22/2024	Intermediate Gaspur	Primary	MW-25-112224	< 0.5	< 0.5	**14**	< 0.5	**4.3**	< 0.5 J	**0.25 J**	**0.91**	< 0.5	< 0.5	**2**	**0.017**
MW-25B	03/01/2008	Lower Gaspur	Primary	MW-25B_20080301	< 0.5	**36 D**	**72 D**	**1.3**	**4.5**	**0.91**	**2.7**	**3.1**	**0.31 J**	< 0.5	**11**	NA
MW-25B	05/17/2009	Lower Gaspur	Primary	MW-25B_20090517	< 0.5	**22 D**	**51 D**	**0.59**	**2.5**	< 0.5	**1.1 J**	**2.1 J**	**0.66**	**0.33 J**	< 2	NA
MW-25B	06/15/2011	Lower Gaspur	Primary	MW-25B-06152011	< 0.5	**3.7**	**32**	< 0.5	**2.7**	< 0.5	< 0.5	**2.3**	**1.4**	< 0.5	**2 J**	< 0.5
MW-25B	12/07/2011	Lower Gaspur	Primary	MW-25B_20111207	< 0.5	**3.6**	**35**	< 0.5	**3.4**	< 0.5	< 0.5	**2.4**	**1.8**	< 0.5	**2.9**	< 0.5
MW-25B	06/12/2012	Lower Gaspur	Split	MW-25B-061212-SPL	< 0.5	**2.1**	**27 D**	**0.31 J**	**3**	**0.37 J**	**0.31 J**	**2.1**	**2**	**0.1 J**	**3.6**	NA
MW-25B	06/12/2012	Lower Gaspur	Primary	MW-25B-061212	< 0.5	**2.9**	**33**	< 0.5	**3.2**	< 0.5	< 0.5	**2.9**	**2.8**	< 0.5	**2.3**	< 0.5
MW-25B	12/10/2012	Lower Gaspur	Primary	MW-25B-12102012	< 0.5	**1.3**	**48**	< 0.5	**4.7**	< 0.5	< 0.5	**2.4**	**3.2**	< 0.5	**3.2**	< 0.5
MW-25B	06/19/2013	Lower Gaspur	Primary	MW-25B-061913	< 0.5	**0.61**	**40**	**0.44 J**	**5**	< 0.5	**0.58**	**2.4**	**2.6**	< 0.5	**2.7 J**	< 0.3
MW-25B	12/09/2013	Lower Gaspur	Primary	MW-25B-120913	< 0.5	**0.55**	**40**	< 0.3	**5**	< 0.5	< 0.2	**2.3**	**2.8**	< 0.5	**2.8**	< 0.3
MW-25B	06/10/2014	Lower Gaspur	Primary	MW-25B-061014	< 0.5	**0.6**	**38**	< 0.3	**5**	< 0.5	< 0.2	**1.8**	**2.9**	< 0.5	**2.6**	< 0.3
MW-25B	12/19/2014	Lower Gaspur	Primary	MW-25B-121914	< 0.5	**0.49 J**	**30**	< 0.3	**4.4**	**0.77**	< 0.2	**1.1**	**2.5**	< 0.5	**1.6 J**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-25B	06/08/2015	Lower Gaspur	Primary	MW-25B-060815	< 0.5	**0.65**	**29**	< 0.3	**5.6**	**1.1**	**0.39 J**	**2.2**	**2.4**	< 0.5	**2.2**	< 0.3
MW-25B	12/11/2015	Lower Gaspur	Primary	MW-25B-121115	< 0.5	**0.84**	**37**	< 0.3	**9.3**	**0.77**	**0.32 J**	**2**	**3.4**	< 0.5	< 1	< 0.3
MW-25B	12/11/2015	Lower Gaspur	Duplicate	DUP03-121115	< 0.5	**0.83**	**37**	< 0.3	**9.4**	**0.75**	**0.29 J**	**1.9**	**3.4**	< 0.5	< 1	< 0.3
MW-25B	06/08/2016	Lower Gaspur	Primary	MW-25B-060816	< 0.5	**1.2**	**40**	**0.46 J**	**7.9**	**1.1**	**0.4 J**	**2.8**	**3.8**	< 0.5	< 1	< 0.3
MW-25B	11/28/2016	Lower Gaspur	Primary	MW-25B-112816	< 0.5	**0.91**	**24**	< 0.3	**5.2**	**2.4**	< 0.2	**1.5**	**2.4**	< 0.5	**2 J**	< 0.3
MW-25B	06/07/2017	Lower Gaspur	Primary	MW-25B-060717	< 0.5	**0.79**	**16**	< 0.3	**3.4**	**1.1**	< 0.2	**1**	**0.86**	< 0.5	< 1 J	< 0.3
MW-25B	12/06/2017	Lower Gaspur	Primary	MW-25B-120617	< 0.5	< 0.2	**0.48 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-25B	06/08/2018	Lower Gaspur	Primary	MW-25B-060818	< 0.5	< 0.2	**21**	< 0.3	**4.6**	< 0.5	**1**	**1.8**	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-25B	12/06/2018	Lower Gaspur	Primary	MW-25B-120618	< 0.5	< 0.2	**0.61**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-25B	06/14/2019	Lower Gaspur	Primary	MW-25B-061419	< 0.5	< 0.3	**16**	< 0.4	**3.5**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**1.2 J**	< 0.2
MW-25B	12/04/2019	Lower Gaspur	Primary	MW-25B-120419	< 0.5	< 0.3	**22**	< 0.4	**5.7**	**0.64**	**0.67**	**1.7**	< 0.4	< 0.3	**2.9**	< 0.2
MW-25B	06/09/2020	Lower Gaspur	Primary	MW-25B-060920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-25B	11/18/2020	Lower Gaspur	Primary	MW-25B-111820	< 0.5	< 0.5	**0.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-25B	05/19/2021	Lower Gaspur	Primary	MW-25B-051921	< 0.5	< 0.5	**9.6**	< 0.5	**1.1**	**0.87**	< 0.5	**1.8**	< 0.5	< 0.5	< 2	< 0.5
MW-25B	11/19/2021	Lower Gaspur	Primary	MW-25B-111921	< 0.5 J	**0.33 J**	**10**	< 0.5	**1.3**	**0.82**	< 0.5	**1.3 J+**	< 0.5	< 0.5	**0.62 J**	< 0.5 J
MW-25B	11/19/2021	Lower Gaspur	Duplicate	QC24-111921	< 0.5 J	**0.36 J**	**11**	< 0.5	**1.4**	< 0.5	< 0.5	**1.4 J+**	< 0.5	< 0.5	**0.64 J**	< 0.5 J
MW-25B	06/24/2022	Lower Gaspur	Primary	MW-25B-062422	< 0.5	**0.38 J**	**12**	< 0.5	**2.4**	**3**	**0.62**	**1**	< 0.5	< 0.5	**3.5**	**0.014**
MW-25B	12/12/2022	Lower Gaspur	Primary	MW-25B-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-25B	05/18/2023	Lower Gaspur	Primary	MW-25B-051823	< 0.5	**0.3 J**	**11**	< 0.5	**1.6**	**1**	**0.27 J**	**0.88**	< 0.5	< 0.5	**2 J**	**0.019**
MW-25B	12/01/2023	Lower Gaspur	Primary	MW-25B-120123	< 0.5	< 0.5	**2.3**	< 0.5	**0.3 J**	< 0.5	< 0.5	**0.32 J**	< 0.5	< 0.5	< 2	**0.0061**
MW-25B	05/06/2024	Lower Gaspur	Primary	MW-25B-050624	< 0.5	< 0.5	**4.8**	< 0.5	**0.6**	**0.45 J**	< 0.5	**0.65**	< 0.5	< 0.5	< 1	< 0.005
MW-25B	11/22/2024	Lower Gaspur	Primary	MW-25B-112224	< 0.5	< 0.5	**28**	< 0.5	**7.9**	**0.71**	< 0.5	**2.1**	**1.4**	< 0.5	< 1	**0.018**
MW-26	01/01/2004	Exposition	Primary	MW-26_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-26	11/01/2004	Exposition	Primary	MW-26_20041101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-26	08/01/2006	Exposition	Primary	MW-26_20060801	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-26	03/01/2008	Exposition	Primary	MW-26_20080301	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-26	05/17/2009	Exposition	Primary	MW-26_20090517	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-26	03/28/2012	Exposition	Primary	MW-26-03282012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2 J**	< 0.5
MW-26	06/19/2013	Exposition	Primary	MW-26-061913	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1 J	< 0.3
MW-26	06/19/2013	Exposition	Duplicate	DUP3-061913	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1 J	< 0.3
MW-26	06/10/2014	Exposition	Primary	MW-26-061014	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	08/08/2016	Exposition	Primary	MW-26-080816	< 0.5	< 0.2	**0.4 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	11/28/2016	Exposition	Primary	MW-26-112816	< 0.5	< 0.2	**0.52**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	06/09/2017	Exposition	Primary	MW-26-060917	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	12/06/2017	Exposition	Primary	MW-26-120617	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-26	06/07/2018	Exposition	Primary	MW-26-060718	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	12/06/2018	Exposition	Primary	MW-26-120618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	06/14/2019	Exposition	Primary	MW-26-061419	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-26	12/06/2019	Exposition	Primary	MW-26-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-26	12/06/2019	Exposition	Duplicate	QC17-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-26	06/15/2020	Exposition	Primary	MW-26-061520	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-26	11/18/2020	Exposition	Primary	MW-26-111820	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-26	05/19/2021	Exposition	Primary	MW-26-051921	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5

TABLE 8
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COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-26	11/19/2021	Exposition	Primary	MW-26-111921	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5 J
MW-26	06/29/2022	Exposition	Primary	MW-26-062922	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-26	06/29/2022	Exposition	Duplicate	QC24-062922	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-26	12/12/2022	Exposition	Primary	MW-26-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-26	05/18/2023	Exposition	Primary	MW-26-051823	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-26	12/01/2023	Exposition	Primary	MW-26-120123	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-26	05/07/2024	Exposition	Primary	MW-26-050724	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-26	11/22/2024	Exposition	Primary	MW-26-112224	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2**	< 0.005
MW-27	01/01/2004	Intermediate Gaspur	Primary	MW-27_20040101	< 0.5	**4.9**	**2.4**	< 0.5	**0.17 J**	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	NA	NA
MW-27	07/01/2004	Intermediate Gaspur	Primary	MW-27_20040701	< 0.5	**3.4**	**2.3**	< 0.5	**0.2 J**	< 0.5	< 0.5	**1.7**	< 0.5	< 0.5	**0.5 J**	NA
MW-27	08/01/2006	Intermediate Gaspur	Primary	MW-27_20060801	< 0.5	**1.4**	**0.87**	< 0.5	< 0.5	< 0.5	< 0.5	**0.72**	< 0.5	< 0.5	< 1	NA
MW-27	03/01/2008	Intermediate Gaspur	Primary	MW-27_20080301	< 0.5	**1.6**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 2	NA
MW-27	05/19/2009	Intermediate Gaspur	Primary	MW-27_20090519	< 0.5	**12**	**8.6**	< 0.5	**1.9**	< 0.5	< 0.5	**3**	< 0.5	< 0.5	< 2	NA
MW-27	06/15/2011	Intermediate Gaspur	Primary	MW-27-06152011	< 0.5	**1.6**	**4.9**	< 0.5	**0.58**	< 0.5	< 0.5	**0.87**	**0.87**	< 0.5	< 3.7	< 0.5
MW-27	06/15/2011	Intermediate Gaspur	Duplicate	DUP2-06152011	< 0.5	**1.6**	**5.5**	< 0.5	**0.56**	< 0.5	< 0.5	**0.96**	**0.91**	< 0.5	< 3.7	< 0.5
MW-27	12/06/2011	Intermediate Gaspur	Primary	MW-27_20111206	< 0.5	**2.9**	**18**	< 0.5	**2**	< 0.5	< 0.5	**1.6**	**3.2**	< 0.5	< 0.94	< 0.5
MW-27	06/08/2012	Intermediate Gaspur	Primary	MW-27-06082012	< 0.5	**1.9**	**11**	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	**1.8**	< 0.5	< 0.94	< 0.5
MW-27	12/11/2012	Intermediate Gaspur	Primary	MW-27-12112012	< 0.5	**1.4**	**6.5**	< 0.5	**0.55**	< 0.5	< 0.5	**1.1**	**0.97**	< 0.5	< 0.95	< 0.5
MW-27	06/18/2013	Intermediate Gaspur	Primary	MW-27-061813	< 0.5	**1.3**	**10**	< 0.3	**1.1**	< 0.5	< 0.2	**0.84**	**1.2**	< 0.5	< 1	< 0.3
MW-27	12/10/2013	Intermediate Gaspur	Primary	MW-27-121013	< 0.5	**1**	**6.1**	< 0.3	**0.82**	< 0.5	< 0.2	< 0.3	**0.52**	< 0.5	< 1	< 0.3
MW-27	06/10/2014	Intermediate Gaspur	Primary	MW-27-061014	< 0.5	**1**	**5.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/17/2014	Intermediate Gaspur	Primary	MW-27-121714	< 0.5	**0.7**	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.3 J**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/08/2015	Intermediate Gaspur	Primary	MW-27-060815	< 0.5	**0.95**	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	**0.44 J**	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/10/2015	Intermediate Gaspur	Primary	MW-27-121015	< 0.5	**1.5**	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**0.65**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2016	Intermediate Gaspur	Primary	MW-27-060916	< 0.5	**1.4**	**2.1**	< 0.3	**0.53**	< 0.5	< 0.2	**0.77**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2016	Intermediate Gaspur	Duplicate	QC13-060916	< 0.5	**1.3**	**1.9**	< 0.3	< 0.4	< 0.5	< 0.2	**0.52**	< 0.2	< 0.5	< 1	< 0.3
MW-27	11/29/2016	Intermediate Gaspur	Primary	MW-27-112916	< 0.5	**1.3**	**2.1**	< 0.3	**0.53**	< 0.5	< 0.2	**0.66**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2017	Intermediate Gaspur	Primary	MW-27-060917	< 0.5	< 0.2	**0.53**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/05/2017	Intermediate Gaspur	Primary	MW-27-120517	< 0.5	< 0.2	**0.38 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/04/2018	Intermediate Gaspur	Primary	MW-27-120418	< 0.5	**1**	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/05/2019	Intermediate Gaspur	Primary	MW-27-120519	< 0.5	**1.2**	**2**	< 0.4	**0.66**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-27	11/17/2020	Intermediate Gaspur	Primary	MW-27-111720	< 0.5	**0.4 J**	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-27	11/17/2020	Intermediate Gaspur	Duplicate	QC03-111720	< 0.5	**0.4 J**	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-27	11/16/2021	Intermediate Gaspur	Primary	MW-27-111621	< 0.5 J	**0.69 J**	**2**	< 0.5	**0.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5 J
MW-27	12/12/2022	Intermediate Gaspur	Primary	MW-27-121222	< 0.5	**0.43 J**	**0.81**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-27	12/12/2022	Intermediate Gaspur	Duplicate	QC02-121222	< 0.5	**0.46 J**	**0.96**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-27	11/28/2023	Intermediate Gaspur	Primary	MW-27-112823	< 0.5	**1.5**	**2.6**	< 0.5	**1.2**	< 0.5	< 0.5	**0.7**	< 0.5	< 0.5	< 2	< 0.005
MW-27	05/06/2024	Intermediate Gaspur	Primary	MW-27-050624	< 0.5	**0.51**	**1.3**	< 0.5	**0.31 J**	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 1	< 0.005
MW-27	11/21/2024	Intermediate Gaspur	Primary	MW-27-112124	< 0.5	**1.4 J**	**10**	< 0.5	**4.5**	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	< 1	< 0.005
MW-28	01/01/2004	Lower Gaspur	Primary	MW-28_20040101	< 0.5	**11**	**10**	< 0.5	**0.48 J**	< 0.5	< 0.5	**1.8 J**	< 0.5	< 0.5	NA	NA
MW-28	11/01/2004	Lower Gaspur	Primary	MW-28_20041101	< 0.5	**18**	**21**	< 0.5	**1.1**	**0.73**	< 0.5	**2.4**	< 0.5	< 0.5	< 1	NA
MW-28	08/01/2006	Lower Gaspur	Primary	MW-28_20060801	< 0.5	**13**	**15**	**0.44 J**	**0.77**	< 0.5	**0.74**	**1.4**	< 0.5	< 0.5	**5**	NA
MW-28	03/01/2008	Lower Gaspur	Primary	MW-28_20080301	< 0.5	**20**	**29 D**	**0.73**	**1.7**	**0.63**	**0.73**	**1.8**	< 0.5	< 0.5	**15**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-28	05/19/2009	Lower Gaspur	Primary	MW-28_20090519	< 0.5	**15 D**	**26 D**	**0.73 J**	**1.3 J**	**0.41 J**	**2.3 J**	**1.6 J**	< 0.5	< 0.5	**7.6**	NA
MW-28	06/15/2011	Lower Gaspur	Primary	MW-28-06152011	< 0.5	**23**	**36**	**0.72**	**2.1**	**0.56**	**2.2**	**2.9**	< 0.5	< 0.5	**13**	**0.58**
MW-28	12/07/2011	Lower Gaspur	Primary	MW-28_20111207	< 0.5	**18**	**37**	**0.7**	**2.4**	**0.65**	**2.2**	**2.6**	< 0.5	< 0.5	**14**	**0.55**
MW-28	06/12/2012	Lower Gaspur	Primary	MW-28-06122012	< 0.5	**5 J**	**14 J**	< 0.5	**0.69 J**	< 0.5	< 0.5	**1.2 J**	< 0.5	< 0.5	**11 J**	< 0.5
MW-28	06/12/2012	Lower Gaspur	Duplicate	DUP2-06122012	< 0.5	**4.1 J**	**12 J**	< 0.5	**0.6 J**	< 0.5	< 0.5	**1.1 J**	< 0.5	< 0.5	**11 J**	< 0.5
MW-28	12/12/2012	Lower Gaspur	Primary	MW-28-12122012	< 0.5	**12**	**39**	**0.69**	**2.3**	**0.76**	**1.8**	**2.6**	**0.54**	< 0.5	**8.2**	**0.51**
MW-28	06/18/2013	Lower Gaspur	Primary	MW-28-061813	< 0.5	**0.96**	**59**	**1.1**	**3.8**	**0.81**	**2.4**	**2.6**	**0.27 J**	< 0.5	**13**	< 0.3
MW-28	12/10/2013	Lower Gaspur	Primary	MW-28-121013	< 0.5	**2.1**	**73**	**1.2**	**3.7**	**0.99**	**2.6**	**2.2**	**0.22 J**	< 0.5	**13**	< 0.3
MW-28	06/10/2014	Lower Gaspur	Primary	MW-28-061014	< 0.5	**1.9**	**63**	**0.98**	**3.2**	**0.75**	**1.7**	**1.9**	< 0.2	< 0.5	**14**	< 0.3
MW-28	12/19/2014	Lower Gaspur	Primary	MW-28-121914	< 0.5	**0.82**	**19**	< 0.3	**1**	< 0.5	**0.61**	**0.55**	< 0.2	< 0.5	**5**	< 0.3
MW-28	06/08/2015	Lower Gaspur	Primary	MW-28-060815	< 0.5	**3.7**	**50**	**0.67**	**3.1**	**1.6**	**1.8**	**2.7**	< 0.2	< 0.5	**10**	**0.56**
MW-28	06/08/2015	Lower Gaspur	Duplicate	DUP02-060815	< 0.5	**4**	**51**	**0.73**	**4**	**1.8**	**1.9**	**2.9**	< 0.2	< 0.5	**11**	**0.54**
MW-28	12/10/2015	Lower Gaspur	Primary	MW-28-121015	< 0.5	**3.5**	**50**	**0.72**	**3.4**	**2.4**	**1.6**	**2.2**	**0.41 J**	< 0.5	**9**	< 0.3
MW-28	06/08/2016	Lower Gaspur	Primary	MW-28-060816	< 0.5	**3.1**	**31**	**0.52**	**3.6**	**3.3**	**0.96**	**3.1**	**1.8**	< 0.5	**6.2**	< 0.3
MW-28	11/30/2016	Lower Gaspur	Primary	MW-28-113016	< 0.5	**2.2**	**20**	**0.4 J**	**1.8**	**1.9**	**0.51**	**1.5**	**0.82**	< 0.5	**5**	< 0.3
MW-28	06/08/2017	Lower Gaspur	Primary	MW-28-060817	< 0.5	**2.4**	**18**	< 0.3	**2.4**	**5.2**	**0.39 J**	**2.4**	**0.8**	< 0.5	**3.7**	< 0.3
MW-28	12/07/2017	Lower Gaspur	Primary	MW-28-120717	< 0.5	**3.6**	**37**	**0.42 J**	**3.1**	**2.6**	**0.56**	**3.1**	**1**	< 0.5	**3.5**	< 0.3
MW-28	12/07/2017	Lower Gaspur	Duplicate	QC14-120717	< 0.5	**3.4**	**34**	**0.47 J**	**3.1**	**2.5**	**0.61**	**2.6**	**0.99**	< 0.5	**3.2**	< 0.3
MW-28	06/05/2018	Lower Gaspur	Primary	MW-28-060518	< 0.5	**1.3**	**22**	< 0.3	**2.5**	**3.7**	< 0.2	**3.4**	**0.82**	< 0.5	**1.4 J**	< 0.3
MW-28	12/07/2018	Lower Gaspur	Primary	MW-28-120718	< 0.5	**0.26 J**	**2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-28	06/11/2019	Lower Gaspur	Primary	MW-28-061119	< 0.5	**0.92**	**16**	< 0.4	**2**	**4**	< 0.2	**1.9**	**0.45 J**	< 0.3	**1.4 J**	< 0.2
MW-28	06/11/2019	Lower Gaspur	Duplicate	QC05-061119	< 0.5	**1**	**17**	< 0.4	**2.1**	**4.3**	< 0.2	**1.9**	**0.48 J**	< 0.3	**1.7 J**	< 0.2
MW-28	12/05/2019	Lower Gaspur	Primary	MW-28-120519	< 0.5	**0.33 J**	**3.2**	< 0.4	**0.49 J**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-28	06/11/2020	Lower Gaspur	Primary	MW-28-061120	< 0.5	**0.57**	**14**	< 0.5	**2.2**	**6.7**	< 0.5	**3.4 J**	**0.69**	< 0.5	**1.4 J**	< 0.5
MW-28	11/17/2020	Lower Gaspur	Primary	MW-28-111720	< 0.5	< 0.5	**0.78**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-28	05/18/2021	Lower Gaspur	Primary	MW-28-051821	< 0.5	**0.96**	**13**	< 0.5	**3.2**	**9.1**	**0.24 J**	**3.7**	**0.82**	< 0.5	**1.3 J**	< 0.5
MW-28	05/18/2021	Lower Gaspur	Duplicate	QC06-051821	< 0.5	**0.73**	**11**	< 0.5	**2.8**	**8.8**	< 0.5	**2.4**	**0.65**	< 0.5	**1.4 J**	< 0.5
MW-28	11/16/2021	Lower Gaspur	Primary	MW-28-111621	< 0.5 J	**0.32 J**	**5.8**	< 0.5	**3.3**	**18**	< 0.5	**2.7**	< 0.5	< 0.5	**0.89 J**	< 0.5 J
MW-28	06/24/2022	Lower Gaspur	Primary	MW-28-062422	< 0.5	< 0.5	**0.31 J**	< 0.5	**2.3**	**30**	< 0.5	**2.5**	**0.44 J**	< 0.5	**1 J**	**0.032**
MW-28	12/13/2022	Lower Gaspur	Primary	MW-28-121322	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-28	05/16/2023	Lower Gaspur	Primary	MW-28-051623	< 0.5	< 0.5	**0.56**	< 0.5	**1.2**	**5.4**	< 0.5	**1.7 J**	< 0.5	< 0.5	< 2	**0.0089**
MW-28	11/28/2023	Lower Gaspur	Primary	MW-28-112823	< 0.5	< 0.5	**1.2**	< 0.5	**1.9**	**16**	< 0.5	**2.3**	< 0.5	< 0.5	**0.7 J**	**0.026**
MW-28	05/07/2024	Lower Gaspur	Primary	MW-28-050724	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-28	11/21/2024	Lower Gaspur	Primary	MW-28-112124	< 0.5	< 0.5 J	**2.1**	< 0.5	**2**	**15**	< 0.5	**2**	< 0.5	< 0.5	< 1	**0.031**
MW-29	01/01/2004	Intermediate Gaspur	Primary	MW-29_20040101	< 0.5	**16**	**4.7**	< 0.5	**0.63**	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	NA	NA
MW-29	11/01/2004	Intermediate Gaspur	Primary	MW-29_20041101	< 0.5	**21**	**5.7**	**0.38 J**	**0.96**	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	NA
MW-29	08/01/2006	Intermediate Gaspur	Primary	MW-29_20060801	**0.21 J**	**59 D**	**45 D**	**2.3**	**2.4**	**0.84**	**7.9**	**3.9**	**0.33 J**	< 0.5	NA	NA
MW-29	03/01/2008	Intermediate Gaspur	Primary	MW-29_20080301	**0.25 J**	**74 D**	**61 D**	**2.1**	**4.2**	**1**	**5**	**2.8**	**0.34 J**	< 0.5	**14**	NA
MW-29	05/18/2009	Intermediate Gaspur	Primary	MW-29_20090518	< 0.5	**40 D**	**82 D**	**2.1**	**3.3**	**0.72**	**5.9 J**	**3.1 J**	**0.42 J**	**0.8**	**11**	NA
MW-29	06/16/2011	Intermediate Gaspur	Primary	MW-29-06162011	< 0.5	**5.8**	**73**	**0.89**	**6.3**	**0.52**	**2**	**2.3**	**0.77**	< 0.5	**11**	< 0.5
MW-29	06/16/2011	Intermediate Gaspur	Duplicate	DUP4-06162011	< 0.5	**6.1**	**72**	**0.89**	**6.4**	< 0.5	**2**	**2.3**	**0.79**	< 0.5	**11**	< 0.5
MW-29	12/08/2011	Intermediate Gaspur	Primary	MW-29_20111208	< 0.5	**4.7**	**51**	**0.51**	**4.2**	< 0.5	**1.1**	**2.4**	**1.6**	< 0.5	**9.2 J**	< 0.5
MW-29	06/08/2012	Intermediate Gaspur	Primary	MW-29-06082012	< 0.5	**3.6**	**49**	< 0.5	**4.1**	< 0.5	**1.1**	**2.3**	**2.1**	< 0.5	**6.5**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-29	12/13/2012	Intermediate Gaspur	Primary	MW-29-12132012	< 0.5	**2.5**	**49**	< 0.5	**4**	< 0.5	**0.96**	**2.9**	**2.2**	< 0.5	< 0.95	< 0.5
MW-29	06/18/2013	Intermediate Gaspur	Primary	MW-29-061813	< 0.5	**1.4**	**40**	**0.59**	**3.4**	**0.76**	**1**	**2**	**1.9**	< 0.5	**5.7**	< 0.3
MW-29	12/10/2013	Intermediate Gaspur	Primary	MW-29-121013	< 0.5	**1**	**50**	**0.74**	**5.6**	< 0.5	**0.81**	**2.2**	**3.5**	< 0.5	**6.1**	< 0.3
MW-29	06/10/2014	Intermediate Gaspur	Primary	MW-29-061014	< 0.5	**1**	**49**	**0.72**	**4.1**	**0.69**	**1.1**	**2.1**	**2.6**	< 0.5	**7.5**	< 0.3
MW-29	12/16/2014	Intermediate Gaspur	Primary	MW-29-121614	< 0.5	**0.8**	**41**	**0.64**	**3.8**	**0.72**	**0.87**	**1.4**	**3.3**	< 0.5	**6.5**	< 0.3
MW-29	06/08/2015	Intermediate Gaspur	Primary	MW-29-060915	< 0.5	**2.1**	**38**	**0.53**	**4.4**	**0.75**	**0.83**	**2**	**3.3**	< 0.5	**4.2**	< 0.3
MW-29	12/08/2015	Intermediate Gaspur	Primary	MW-29-120815	< 0.5	**0.81**	**62**	**1**	**5.8**	**1.8**	**1.5**	**2.6**	**1.9**	< 0.5	**5.2**	< 0.3
MW-29	06/08/2016	Intermediate Gaspur	Primary	MW-29-060816	< 0.5	**0.74**	**43**	**0.78**	**5.8**	**0.82**	**0.76**	**2.3**	**1.9**	< 0.5	**2.1**	< 0.3
MW-29	11/30/2016	Intermediate Gaspur	Primary	MW-29-113016	< 0.5	**0.53**	**41**	**0.45 J**	**6.6**	< 0.5	**0.5**	**2**	**2.5**	< 0.5	**2.6**	< 0.3
MW-29	06/08/2017	Intermediate Gaspur	Primary	MW-29-060817	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29	12/06/2017	Intermediate Gaspur	Primary	MW-29-120617	< 0.5	< 0.2	**0.5**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29	12/04/2018	Intermediate Gaspur	Primary	MW-29-120418	< 0.5	**0.77**	**29**	< 0.3	**6.8**	< 0.5	**0.75**	**1.7**	**1.5**	< 0.5	**3.1**	< 0.3
MW-29	12/04/2018	Intermediate Gaspur	Duplicate	QC05-120418	< 0.5	**0.85**	**31**	< 0.3	**6.8**	< 0.5	**0.85**	**1.7**	**1.8**	< 0.5	**3.1**	< 0.3
MW-29	06/11/2019	Intermediate Gaspur	Primary	MW-29-061119	< 0.5	**0.95**	**21**	< 0.4	**5.5**	< 0.4	< 0.2	**1.2**	< 0.4	< 0.3	**2.4**	< 0.2
MW-29	12/04/2019	Intermediate Gaspur	Primary	MW-29-120419	< 0.5	**0.75**	**21**	< 0.4	**5.6**	**0.49 J**	**0.54**	**1.4**	< 0.4	< 0.3	**2.3**	< 0.2
MW-29	06/11/2020	Intermediate Gaspur	Primary	MW-29-061120	< 0.5	**0.7**	**21**	< 0.5	**4.8**	< 0.5	**0.7**	**1.9**	< 0.5	< 0.5	**2.7**	< 0.5
MW-29	11/17/2020	Intermediate Gaspur	Primary	MW-29-111720	< 0.5	**0.4 J**	**3.6**	< 0.5	**0.89**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.5 J**	< 0.5
MW-29	01/13/2021	Intermediate Gaspur	Primary	MW-29-011321	< 0.5	**0.49 J**	**15**	< 0.5	**3.7**	< 0.5	**0.6**	**1.5**	< 0.5	< 0.5	**4**	< 0.5
MW-29	05/18/2021	Intermediate Gaspur	Primary	MW-29-051821	< 0.5	**0.46 J**	**18**	< 0.5	**4.9**	< 0.5	**0.88**	**2**	< 0.5	< 0.5	**3.8**	< 0.5
MW-29	11/18/2021	Intermediate Gaspur	Primary	MW-29-111821	< 0.5	< 0.5 J	**16**	< 0.5	**4.2**	**0.54 J**	**0.46 J**	**1.2 J**	< 0.5	< 0.5 J	**2 J**	< 0.5
MW-29	06/24/2022	Intermediate Gaspur	Primary	MW-29-062422	< 0.5	**0.35 J**	**1.3**	< 0.5	**0.58**	**2.1**	< 0.5	**0.27 J**	< 0.5	< 0.5	**0.63 J**	**0.0037 J**
MW-29	12/12/2022	Intermediate Gaspur	Primary	MW-29-121222	< 0.5	**0.6**	**20**	< 0.5	**4.7**	**1.3**	**0.73**	**1.4**	< 0.5	< 0.5	**3.8 J**	**0.016**
MW-29	05/18/2023	Intermediate Gaspur	Primary	MW-29-051823	< 0.5	< 0.5	**7.5**	< 0.5	**1.5**	< 0.5	< 0.5	**0.7**	< 0.5	< 0.5	**2.9 J**	**0.015**
MW-29	11/28/2023	Intermediate Gaspur	Primary	MW-29-112823	< 0.5	< 0.5	**4.5**	< 0.5	**1.7**	**2.4**	**0.25 J**	**0.76**	< 0.5	< 0.5	**2.1 J**	< 0.05
MW-29	05/09/2024	Intermediate Gaspur	Primary	MW-29-050924	< 0.5	< 0.5	**7.4**	< 0.5	**4.6**	**9.4**	< 0.5	**2.2**	< 0.5	< 0.5	**0.6 J**	**0.0079**
MW-29	11/22/2024	Intermediate Gaspur	Primary	MW-29-112224	< 0.5	< 0.5	**4.4**	< 0.5	**7.4**	**24**	< 0.5	**2.5**	**0.86**	< 0.5	< 1	**0.014**
MW-29A	03/01/2008	Shallow Gaspur	Primary	MW-29A_20080301	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.28 J**	NA
MW-29A	05/18/2009	Shallow Gaspur	Primary	MW-29A_20090518	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-29A	06/14/2011	Shallow Gaspur	Primary	MW-29A-06142011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-29A	12/06/2011	Shallow Gaspur	Primary	MW-29A_20111206	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-29A	12/06/2011	Shallow Gaspur	Duplicate	DUP1-12062011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	< 0.5
MW-29A	06/07/2012	Shallow Gaspur	Primary	MW-29A-06072012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-29A	12/11/2012	Shallow Gaspur	Primary	MW-29A-12112012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-29A	06/18/2013	Shallow Gaspur	Primary	MW-29A-061813	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/10/2013	Shallow Gaspur	Primary	MW-29A-121013	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/10/2013	Shallow Gaspur	Duplicate	DUP2-121013	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/16/2014	Shallow Gaspur	Primary	MW-29A-121614	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/08/2015	Shallow Gaspur	Primary	MW-29A-120815	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	11/30/2016	Shallow Gaspur	Primary	MW-29A-113016	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/06/2017	Shallow Gaspur	Primary	MW-29A-120617	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/07/2018	Shallow Gaspur	Primary	MW-29A-120718	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/06/2019	Shallow Gaspur	Primary	MW-29A-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-29A	11/17/2020	Shallow Gaspur	Primary	MW-29A-111720	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-29A	11/18/2021	Shallow Gaspur	Primary	MW-29A-111821	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5 J
MW-29A	11/28/2023	Shallow Gaspur	Primary	MW-29A-112823	< 0.5	< 0.5	**0.78**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.005
MW-29A	11/22/2024	Shallow Gaspur	Primary	MW-29A-112224	< 0.5	< 0.5	**11**	< 0.5	**3.2**	< 0.5 J	< 0.5	**0.8**	< 0.5	< 0.5	**1.8**	< 0.005
MW-29A	11/22/2024	Shallow Gaspur	Duplicate	QC19-112224	< 0.5	< 0.5	**9.8**	< 0.5	**2.8**	< 0.5 J	< 0.5	**0.79**	< 0.5	< 0.5	**2**	< 0.005
MW-30	01/01/2004	Lower Gaspur	Primary	MW-30_20040101	< 0.5	**110 D**	**5.1**	**0.43 J**	**0.84**	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	NA	NA
MW-30	07/01/2004	Lower Gaspur	Primary	MW-30_20040701	< 0.5	**110 D**	**6.1**	**0.77**	**1.4**	**0.2 J**	**0.42 J**	**3.7**	< 0.5	< 0.5	**8.5**	NA
MW-30	08/01/2006	Lower Gaspur	Primary	MW-30_20060801	< 0.5	**180 D**	**9.4**	**1.1**	**1.5**	< 0.5	**1.5**	**5.3**	< 0.5	< 0.5	**8.1**	NA
MW-30	03/01/2008	Lower Gaspur	Primary	MW-30_20080301	< 0.5	**180 D**	**16**	**1.1**	**2.5**	**0.44 J**	**1.7**	**5.4**	**0.26 J**	< 0.5	**8.1**	NA
MW-30	05/19/2009	Lower Gaspur	Primary	MW-30_20090519	< 0.5	**100 D**	**37 D**	**1.4**	**2.6**	< 0.5	**2 J**	**4.9 J**	**0.33 J**	< 0.5	**5.4**	NA
MW-30	06/16/2011	Lower Gaspur	Primary	MW-30-06162011	< 0.5	**72**	**52**	**0.93**	**2.2**	< 0.5	**1.4**	**3**	< 0.5	< 0.5	**11**	< 0.5
MW-30	12/08/2011	Lower Gaspur	Primary	MW-30_20111208	< 0.5	**44**	**54**	**0.66**	**1.9**	< 0.5	**1.2**	**2.6**	< 0.5	< 0.5	**11 J**	< 0.5
MW-30	06/12/2012	Lower Gaspur	Primary	MW-30-06122012	< 0.5	**29**	**66**	**0.78**	**2.1**	**5.3**	**1.2**	**2.8**	< 0.5	< 0.5	**10**	< 0.5
MW-30	12/13/2012	Lower Gaspur	Primary	MW-30-12132012	< 0.5	**33**	**70**	**0.88**	**2.6**	**2.3**	**1.3**	**2.9**	< 0.5	< 0.5	< 2	< 0.5
MW-30	12/10/2013	Lower Gaspur	Primary	MW-30-121013	< 0.5	**13**	**74**	**0.95**	**3.9**	**3.1**	**1.1**	**1.6**	< 0.2	< 0.5	**10**	< 0.3
MW-30	12/16/2014	Lower Gaspur	Primary	MW-30-121614	< 0.5	**6.7**	**63**	**0.71**	**4.6**	**1.6**	**0.76**	**1.1**	< 0.2	< 0.5	**11**	< 0.3
MW-30	12/08/2015	Lower Gaspur	Primary	MW-30-120815	< 0.5	**4.8**	**71**	**0.79**	**3.9**	**3**	**1.1**	**1.7**	< 0.2	< 0.5	**10**	< 0.3
MW-30	06/08/2016	Lower Gaspur	Primary	MW-30-060816	< 0.5	**3.4**	**57**	**0.93**	**5.6**	**0.58**	**0.96**	**1.2**	< 0.2	< 0.5	**9.6**	< 0.3
MW-30	11/30/2016	Lower Gaspur	Primary	MW-30-113016	< 0.5	**1.8**	**61**	**0.71**	**5.8**	**1.4**	**0.83**	**1.3**	< 0.2	< 0.5	**9.7**	< 0.3
MW-30	06/08/2017	Lower Gaspur	Primary	MW-30-060817	< 0.5	**2.5**	**68**	**0.75**	**6.1**	**5.3**	**1.1**	**1.4**	< 0.2	< 0.5	**13**	< 0.3
MW-30	12/06/2017	Lower Gaspur	Primary	MW-30-120617	< 0.5	**0.47 J**	**3.6**	< 0.3	**0.49 J**	**0.9**	< 0.2	< 0.3	< 0.2	< 0.5	**1.7 J**	< 0.3
MW-30	06/07/2018	Lower Gaspur	Primary	MW-30-060718	< 0.5	**3.3**	**88**	**0.85**	**8.1**	**2.5**	**1.7**	**2.3**	< 0.2	< 0.5	**8.9**	< 0.3
MW-30	12/04/2018	Lower Gaspur	Primary	MW-30-120418	< 0.5	**3.2**	**78**	**0.84**	**7.1**	**1.5**	**1.4**	**2.5**	**0.8**	< 0.5	**12**	< 0.3
MW-30	12/06/2019	Lower Gaspur	Primary	MW-30-120619	< 0.5	**0.81**	**32**	**0.5**	**6.8**	**28 J**	**1.2**	**2.2**	< 0.4	< 0.3	**13**	< 0.2
MW-30	11/17/2020	Lower Gaspur	Primary	MW-30-111720	< 0.5	**4.3**	**77**	**0.88**	**11**	**5**	**1.7**	**2.2**	< 0.5	< 0.5	**8.1**	< 0.5
MW-30	12/29/2021	Lower Gaspur	Primary	MW-30-122921	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-30	12/12/2022	Lower Gaspur	Primary	MW-30-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-30	11/28/2023	Lower Gaspur	Primary	MW-30-112823	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	**26**	**0.62**	**1.3**	< 0.5	< 0.5	**4.6**	**0.025**
MW-30	11/22/2024	Lower Gaspur	Primary	MW-30-112224	< 0.5	< 0.5	**1.8**	< 0.5	**2.9**	**59**	**1.6**	**3.4**	< 0.5	< 0.5	**9.8**	**0.038**
MW-31	01/01/2004	Intermediate Gaspur	Primary	MW-31_20040101	< 0.5	**79 D**	**22 D**	**1.4**	**2**	< 0.5	< 0.5	**8**	**0.42 J**	< 0.5	NA	NA
MW-31	07/01/2004	Intermediate Gaspur	Primary	MW-31_20040701	< 0.5	**63 D**	**17**	**1.3**	**1.6**	**0.26 J**	**0.36 J**	**5.5**	**0.31 J**	< 0.5	**17**	NA
MW-31	08/01/2006	Intermediate Gaspur	Primary	MW-31_20060801	< 0.5	**11**	**4.4**	**0.49 J**	< 0.5	< 0.5	**0.49 J**	< 0.5	< 0.5	< 0.5	**2.6**	NA
MW-31	03/01/2008	Intermediate Gaspur	Primary	MW-31_20080301	< 0.5	**5.6**	**3.5**	**0.32 J**	**0.73**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.7 J**	NA
MW-31	05/17/2009	Intermediate Gaspur	Primary	MW-31_20090517	< 0.5	**10**	**5.4**	**0.4 J**	**0.73**	< 0.5	< 0.5	**0.29 J**	< 0.5	< 0.5	< 2	NA
MW-31	06/14/2011	Intermediate Gaspur	Primary	MW-31-06142011	< 0.5	**24**	**13**	**0.81**	**1.1**	< 0.5	**0.53**	< 0.5	< 0.5	< 0.5	**15**	**2.4**
MW-31	12/07/2011	Intermediate Gaspur	Primary	MW-31_20111207	< 0.5	**41**	**22**	**1.4**	**1.9**	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	**12 J**	**4**
MW-31	06/07/2012	Intermediate Gaspur	Primary	MW-31-06072012	< 0.5	**35**	**24**	**1.2**	**1.6**	< 0.5 J	**1.2**	< 0.5	< 0.5	< 0.5	**16 J**	**3.1**
MW-31	12/12/2012	Intermediate Gaspur	Primary	MW-31-12122012	< 0.5	**53**	**33**	**1.9**	**2.2**	< 0.5	**1.8**	< 0.5	< 0.5	< 0.5	**45**	**3.9**
MW-31	12/10/2013	Intermediate Gaspur	Primary	MW-31-121013	< 0.5	**30**	**25**	**1.4**	**1.9**	< 0.5	**1.1**	< 0.3	< 0.2	< 0.5	**21**	**3.5**
MW-31	12/17/2014	Intermediate Gaspur	Primary	MW-31-121714	< 0.5	**18**	**15**	**1.4**	**1.2**	< 0.5	**0.56**	< 0.3	< 0.2	< 0.5	**19**	< 0.3
MW-31	12/08/2015	Intermediate Gaspur	Primary	MW-31-120815	< 0.5	**16**	**15**	**1.6**	**1.3**	< 0.5	**0.86**	< 0.3	< 0.2	< 0.5	**14**	**0.94**
MW-31	11/29/2016	Intermediate Gaspur	Primary	MW-31-112916	< 0.5	**9.5**	**14**	**1.5**	**1.2**	< 0.5	**0.61**	**0.43 J**	< 0.2	< 0.5	**11**	< 0.3
MW-31	06/09/2017	Intermediate Gaspur	Primary	MW-31-060917	< 0.5	**0.8**	**3.5**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**3.6**	< 0.3
MW-31	12/05/2017	Intermediate Gaspur	Primary	MW-31-120517	< 0.5	**1.1**	**4.1**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.6**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-31	12/05/2017	Intermediate Gaspur	Duplicate	QC05-120517	< 0.5	**1.2**	**4.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.4**	< 0.3
MW-31	06/05/2018	Intermediate Gaspur	Primary	MW-31-060518	< 0.5	**10**	**29**	**1.4**	**2**	< 0.5	**0.69**	**6.1**	< 0.2	< 0.5	**13**	< 0.3
MW-31	12/04/2018	Intermediate Gaspur	Primary	MW-31-120418	< 0.5	**8.7**	**24**	**0.97**	**1.5**	< 0.5	**0.57**	**3.6**	< 0.2	< 0.5	**14**	< 0.3
MW-31	12/05/2019	Intermediate Gaspur	Primary	MW-31-120519	< 0.5	**5.4**	**19**	**1.2**	**1.4**	< 0.4	**1.6**	**1.7**	< 0.4	< 0.3	**9**	**0.5**
MW-31	11/20/2020	Intermediate Gaspur	Primary	MW-31-112020	< 0.5	**0.45 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-31	12/29/2021	Intermediate Gaspur	Primary	MW-31-122921	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-31	12/12/2022	Intermediate Gaspur	Primary	MW-31-121222	< 0.5	**1.2**	**23**	**1.6**	**1.7**	< 0.5	**1.7**	**1.2**	< 0.5	< 0.5	**12**	**0.16**
MW-31	11/30/2023	Intermediate Gaspur	Primary	MW-31-113023	< 0.5	**0.61**	**9**	**1.8**	**1.3**	< 0.5	**0.85**	**0.63**	< 0.5	< 0.5	**9.8**	< 0.5
MW-31	11/21/2024	Intermediate Gaspur	Primary	MW-31-112124	< 0.5	**0.43 J**	**12**	**1.9**	**1.3**	**0.46 J**	**0.83**	**0.67**	< 0.5	< 0.5	**6.6**	**0.048**
MW-31A	03/01/2008	Shallow Gaspur	Primary	MW-31A_20080301	< 0.5	**0.44 J**	**12**	< 0.5	**0.4 J**	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	NA
MW-31A	05/17/2009	Shallow Gaspur	Primary	MW-31A_20090517	< 0.5	**0.34 J**	**14**	< 0.5	**0.43 J**	**0.36 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-31A	06/14/2011	Shallow Gaspur	Primary	MW-31A-06142011	< 0.5	< 0.5	**13**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3 J**	< 0.5
MW-31A	12/06/2011	Shallow Gaspur	Primary	MW-31A_20111206	< 0.5	< 0.5	**12**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.3**	< 0.5
MW-31A	06/07/2012	Shallow Gaspur	Primary	MW-31A-06072012	< 0.5	< 0.5	**12**	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	**1.8 J**	< 0.5
MW-31A	12/11/2012	Shallow Gaspur	Primary	MW-31A-12112012	< 0.5	< 0.5	**14**	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-31A	12/11/2012	Shallow Gaspur	Duplicate	DUP3-12112012	< 0.5	< 0.5	**14**	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.7**	< 0.5
MW-31A	12/10/2013	Shallow Gaspur	Primary	MW-31A-121013	< 0.5	< 0.2	**17**	< 0.3	**0.77**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/17/2014	Shallow Gaspur	Primary	MW-31A-121714	< 0.5	< 0.2	**9.8**	< 0.3	**0.42 J**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/08/2015	Shallow Gaspur	Primary	MW-31A-120815	< 0.5	< 0.2	**14**	< 0.3	**0.57**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/08/2015	Shallow Gaspur	Duplicate	DUP04-120815	< 0.5	**0.28 J**	**13**	< 0.3	**0.55**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	11/29/2016	Shallow Gaspur	Primary	MW-31A-112916	< 0.5	< 0.2	**6.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	06/07/2017	Shallow Gaspur	Primary	MW-31A-060717	< 0.5	< 0.2	**4.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/05/2017	Shallow Gaspur	Primary	MW-31A-120517	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	06/04/2018	Shallow Gaspur	Primary	MW-31A-060418	< 0.5	< 0.2	**4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/04/2018	Shallow Gaspur	Primary	MW-31A-120418	< 0.5	< 0.2	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/05/2019	Shallow Gaspur	Primary	MW-31A-120519	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-31B	03/01/2008	Lower Gaspur	Primary	MW-31B_20080301	< 0.5	**250 D**	**13**	**1.7**	**4**	**0.34 J**	**2**	**4.9**	**0.2 J**	< 0.5	**9.7**	NA
MW-31B	05/17/2009	Lower Gaspur	Primary	MW-31B_20090517	< 0.5 J	**180 DJ**	**13 J**	**0.9 J**	**3.2 J**	< 0.5 J	**1.1 J**	**2.5 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-31B	06/16/2011	Lower Gaspur	Primary	MW-31B-06162011	< 0.5	**63**	**29**	**0.53**	**3.3**	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-31B	12/07/2011	Lower Gaspur	Primary	MW-31B_20111207	< 0.5	**41**	**28**	**0.55**	**3**	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	**2.5**	< 0.5
MW-31B	06/12/2012	Lower Gaspur	Primary	MW-31B-06122012	< 0.5	**7.6**	**63**	**0.5**	**1.4**	< 0.5	**0.71**	**3.1**	< 0.5	< 0.5	**2.2**	< 0.5
MW-31B	12/13/2012	Lower Gaspur	Primary	MW-31B-12132012	< 0.5	**14**	**52**	**0.54**	**3.8**	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	< 0.95	< 0.5
MW-31B	12/10/2013	Lower Gaspur	Primary	MW-31B-121013	< 0.5	**5**	**87**	**1**	**9.5**	< 0.5	< 0.2	**2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-31B	12/17/2014	Lower Gaspur	Primary	MW-31B-121714	< 0.5	**2.5**	**71**	**0.72**	**9.5**	< 0.5	**0.56**	**1.8**	< 0.2	< 0.5	**5.8**	< 0.3
MW-31B	12/08/2015	Lower Gaspur	Primary	MW-31B-120815	< 0.5	**3**	**64**	**0.86**	**9.4**	< 0.5	**0.68**	**2.2**	< 0.2	< 0.5	**4.6**	< 0.3
MW-31B	11/29/2016	Lower Gaspur	Primary	MW-31B-112916	< 0.5	**2**	**53**	**1**	**7.1**	< 0.5	**0.79**	**2**	< 0.2	< 0.5	**6.2**	< 0.3
MW-31B	06/07/2017	Lower Gaspur	Primary	MW-31B-060717	< 0.5	**1.6**	**47**	**0.84**	**3.4**	< 0.5	**0.67**	**2.9**	< 0.2	< 0.5	**8.5**	< 0.3
MW-31B	06/07/2017	Lower Gaspur	Duplicate	QC02-060717	< 0.5	**1.7**	**49**	**0.97**	**3.4**	< 0.5	**0.62**	**2.9**	< 0.2	< 0.5	**8.3**	< 0.3
MW-31B	12/05/2017	Lower Gaspur	Primary	MW-31B-120517	< 0.5	**1.5**	**43**	**0.5**	**2.6**	< 0.5	**0.58**	**3.4**	< 0.2	< 0.5	**6**	< 0.3
MW-31B	06/05/2018	Lower Gaspur	Primary	MW-31B-060518	< 0.5	**2.3**	**190**	**1.8**	**12**	< 0.5	**1.8**	**13**	< 0.2	< 0.5	**6.4**	< 0.3
MW-31B	12/04/2018	Lower Gaspur	Primary	MW-31B-120418	< 2.5	**1.8 J**	**180**	< 1.5	**8.3**	< 2.5	< 1	**21**	< 1	< 2.5	**8.9**	< 1.5
MW-31B	12/05/2019	Lower Gaspur	Primary	MW-31B-120519	< 1	**1.7**	**74**	**1.4**	**4.1**	< 0.8	**0.76 J**	**8.5**	< 0.8	< 0.6	**7.6**	< 0.4
MW-31B	11/19/2020	Lower Gaspur	Primary	MW-31B-111920	< 0.5	**1**	**9.6**	< 0.5	**0.83**	< 0.5	< 0.5	**0.91**	< 0.5	< 0.5	< 2	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-31B	12/29/2021	Lower Gaspur	Primary	MW-31B-122921	< 0.5	**0.75 J**	**5.2**	< 0.5	**0.43 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-31B	12/19/2022	Lower Gaspur	Primary	MW-31B-121922	< 0.5	< 0.5	**43**	**1.2**	**3.2**	**1.3**	**0.73**	**4.9**	< 0.5	< 0.5	**5.9**	**0.027**
MW-31B	12/01/2023	Lower Gaspur	Primary	MW-31B-120123	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	**0.59**	< 0.5	**0.3 J**	< 0.5	< 0.5	< 2	< 0.005
MW-31B	11/21/2024	Lower Gaspur	Primary	MW-31B-112124	< 0.5	< 0.5 J	**21 J**	**0.62**	**2.5**	**30 J**	**0.66**	**3.4**	< 0.5	< 0.5	**3.8**	**0.02 J**
MW-32	01/01/2004	Exposition	Primary	MW-32_A_20040101	< 0.5	**1.3**	**0.17 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-32	01/01/2004	Exposition	Primary	MW-32_B_20040101	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-32	11/01/2004	Exposition	Primary	MW-32_20041101	< 0.5	**0.46 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-32	08/01/2006	Exposition	Primary	MW-32_20060801	< 0.5	**0.24 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-32	03/01/2008	Exposition	Primary	MW-32_20080301	< 0.5	**0.47 J**	< 0.5	< 0.5	< 0.5	**0.73**	< 0.5	**0.32 J**	< 0.5	< 0.5	< 2	NA
MW-32	05/15/2009	Exposition	Primary	MW-32_20090515	< 0.5	**0.33 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-32	12/05/2011	Exposition	Primary	MW-32_20111205	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-32	06/07/2012	Exposition	Primary	MW-32-06072012	< 0.5	**0.83**	**1**	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-32	12/11/2012	Exposition	Primary	MW-32-12112012	< 0.5	**0.9**	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	< 0.5
MW-32	06/11/2014	Exposition	Primary	MW-32-061114	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	07/13/2016	Exposition	Primary	MW32-0716	< 0.5	< 0.5	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-32	07/13/2016	Exposition	Duplicate	MW132-0716	< 0.5	< 0.5	**0.63**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-32	08/08/2016	Exposition	Primary	MW-32-080816	< 0.5	< 0.2	**1.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	11/29/2016	Exposition	Primary	MW-32-112916	< 0.5	< 0.2	**1.3**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	06/09/2017	Exposition	Primary	MW-32-060917	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	12/08/2017	Exposition	Primary	MW-32-120817	< 0.5	< 0.2	**0.52**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	06/05/2018	Exposition	Primary	MW-32-060518	< 0.5	< 0.2	**0.95**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	12/04/2018	Exposition	Primary	MW-32-120418	< 0.5	< 0.2	**0.79**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	06/11/2019	Exposition	Primary	MW-32-061119	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-32	12/04/2019	Exposition	Primary	MW-32-120419	< 0.5	< 0.3	**0.43 J**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-32	06/10/2020	Exposition	Primary	MW-32-061020	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-32	11/20/2020	Exposition	Primary	MW-32-112020	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-32	05/18/2021	Exposition	Primary	MW-32-051821	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.79 J**	< 0.5
MW-32	11/16/2021	Exposition	Primary	MW-32-111621	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1 J**	< 0.5 J
MW-32	06/24/2022	Exposition	Primary	MW-32-062422	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.87 J**	< 0.005
MW-32	12/12/2022	Exposition	Primary	MW-32-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.005
MW-32	05/16/2023	Exposition	Primary	MW-32-051623	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3 J**	< 0.005
MW-32	11/30/2023	Exposition	Primary	MW-32-113023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.005
MW-32	05/07/2024	Exposition	Primary	MW-32-050724	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.6 J**	< 0.005
MW-32	11/21/2024	Exposition	Primary	MW-32-112124	< 0.5	< 0.5 J	**0.32 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2**	< 0.005
MW-33A	07/01/2005	Shallow Gaspur	Primary	MW-33A_20050701_A	< 0.5	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**540**	NA
MW-33A	07/01/2005	Shallow Gaspur	Primary	MW-33A_20050701_B	**5.6**	**940 D**	**190 D**	**29 E**	**12**	**4.6**	**50 D**	**8.1**	**2.5**	**4.9**	**630**	NA
MW-33A	08/01/2005	Shallow Gaspur	Primary	MW-33A_20050801	**4.6**	**1200**	**190**	**27**	**15**	**7.2**	**49**	**7.3**	**2.2**	**3.9**	**470**	NA
MW-33A	09/01/2005	Shallow Gaspur	Primary	MW-33A_20050901_A	**4.9**	**1200**	**210**	**33**	**11**	**5.5**	**52**	**6.1**	**2**	**3.3**	**500**	NA
MW-33A	09/01/2005	Shallow Gaspur	Primary	MW-33A_20050901_B	**1.6**	**990**	**100**	**9.9**	**4.3**	**1.6**	**19**	**4.2**	**0.9**	**1.9**	**350**	NA
MW-33A	10/01/2005	Shallow Gaspur	Primary	MW-33A_20051001	**2.9**	**450**	**100**	**16**	**6**	**2.4**	**26**	**4.4**	**1.2**	**2.7**	**440**	NA
MW-33A	11/01/2005	Shallow Gaspur	Primary	MW-33A_20051101	**4.4**	**680**	**140**	**20**	**7.8**	**3.2**	**42**	**5**	**1**	**3.4**	**300**	NA
MW-33A	01/01/2006	Shallow Gaspur	Primary	MW-33A_20060101	**1.6**	**670**	**74**	**10**	**3.7**	**0.9**	**18**	**3.2**	**0.7**	**1.4**	**270**	NA
MW-33A	03/01/2006	Shallow Gaspur	Primary	MW-33A_20060301	< 2.5	**280 D**	**33**	**4.2**	< 2.5	< 2.5	**10**	< 2.5	< 2.5	< 2.5	**170**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-33A	04/01/2006	Shallow Gaspur	Primary	MW-33A_20060401_A	**0.6**	**160**	**25**	**2.3**	**1.1**	**0.3**	**9.4**	**1.7**	**0.3**	**0.9**	**140**	NA
MW-33A	04/01/2006	Shallow Gaspur	Primary	MW-33A_20060401_B	**1.1**	**260**	**29**	**5**	**1.9**	**0.7**	**12**	**1.9**	**0.3**	**1**	**120**	NA
MW-33A	05/01/2006	Shallow Gaspur	Primary	MW-33A_20060501	**0.4**	**120**	**14**	**1.7**	**0.7**	**0.2**	**5.3**	**0.8**	< 0.5	**0.4**	**220**	NA
MW-33A	06/01/2006	Shallow Gaspur	Primary	MW-33A_20060601	**1.6**	**180**	**62**	**3.5**	**2.1**	**0.6**	**22**	**2.3**	**0.3**	**2.4**	**99**	NA
MW-33A	08/01/2006	Shallow Gaspur	Primary	MW-33A_20060801	< 0.5	**130 D**	**41 D**	**2.9**	**1.6**	< 0.5	**21**	< 0.5	**0.33 J**	**1.5**	**74**	NA
MW-33A	03/01/2008	Shallow Gaspur	Primary	MW-33A_20080301	**2.2**	**490 D**	**140 D**	**17**	**6.3**	**2.4**	**28 D**	**3.5**	**1**	**2.4**	**450 D**	NA
MW-33A	05/12/2009	Shallow Gaspur	Primary	MW-33A_20090512	**1.8 J**	**480 D**	**81 D**	**12 J**	**4 J**	**1.6 J**	**26 J**	< 2.5	< 2.5	< 2.5	**110 D**	NA
MW-33A	06/16/2011	Shallow Gaspur	Primary	MW-33A-06162011	< 1	**140**	**130**	**7.9**	**3.6**	**1.4**	**23**	**2.1**	< 1	**1.7**	**300**	< 1
MW-33A	06/16/2011	Shallow Gaspur	Duplicate	DUP5-06162011	< 1	**140**	**130**	**7.8**	**3.5**	**1.4**	**23**	**2**	< 1	< 1	**280**	< 1
MW-33A	12/09/2011	Shallow Gaspur	Primary	MW-33A_20111209	< 1	**130**	**160**	**7.3**	**4.3**	**2.1**	**28**	**3.2**	< 1	**2**	**170 J**	< 1
MW-33A	06/08/2012	Shallow Gaspur	Primary	MW-33A-06082012	**0.75**	**130**	**170**	**10**	**4.9**	**2.5**	**34**	**3.2**	**0.54**	< 0.5	**280 J**	**1.2**
MW-33A	12/14/2012	Shallow Gaspur	Primary	MW-33A-12142012	< 0.5	**53**	**190**	**9.2**	**4.5**	**3**	**35**	**2.9**	< 0.5	**1.7**	**170 J**	**0.86**
MW-33A	06/19/2013	Shallow Gaspur	Primary	MW-33A-061913	< 0.5	**46**	**270**	**16**	**9.2**	**6.7**	**54**	**4.2**	**0.65**	**2.1**	**180 J**	**0.92**
MW-33A	12/12/2013	Shallow Gaspur	Primary	MW-33A-121213	< 0.5	**78**	**150**	**11**	**4.7**	**3.4**	**33**	**2.4**	**0.46 J**	< 0.5	**160**	< 0.3
MW-33A	06/09/2014	Shallow Gaspur	Primary	MW-33A-060914	< 0.5	**32**	**200**	**11**	**6.7**	**4.9**	**29**	**2.4**	**0.49 J**	< 0.5	**180**	< 0.3
MW-33A	12/16/2014	Shallow Gaspur	Primary	MW-33A-121614	< 0.5	**56**	**140**	**10**	**5.6**	**3.3**	**37**	**2.3**	**0.4 J**	< 0.5	**150**	< 0.3
MW-33A	12/16/2014	Shallow Gaspur	Duplicate	DUP04-121614	< 0.5	**66**	**130**	**11**	**5.4**	**3.2**	**34**	**2.1**	**0.38 J**	< 0.5	**160**	< 0.3
MW-33A	06/10/2015	Shallow Gaspur	Primary	MW-33A-061015	< 0.5	**63**	**89**	**9.2**	**4.9**	**3.3**	**36**	**3.9**	**0.41 J**	**1.3**	**180**	< 0.3
MW-33A	12/09/2015	Shallow Gaspur	Primary	MW-33A-120915	< 0.5	**97**	**120**	**14**	**7**	**4.6**	**46**	**3.9**	**0.6**	**1.8**	**260**	< 0.3
MW-33A	06/10/2016	Shallow Gaspur	Primary	MW-33A-061016	< 0.5	**96**	**150**	**19**	**7.9**	**3.4**	**49**	**3.8**	< 0.2	< 0.5	**260**	< 0.3
MW-33A	12/01/2016	Shallow Gaspur	Primary	MW-33A-120116	< 0.5	**130**	**190**	**19**	**10**	**4.2**	**59**	**4.3**	**1**	< 0.5	**230**	< 0.3
MW-33A	06/08/2017	Shallow Gaspur	Primary	MW-33A-060817	< 0.5	**110**	**200**	**12**	**7.7**	**2.3**	**45**	**3.2**	**0.85**	**2.5**	**260**	< 0.3
MW-33A	12/07/2017	Shallow Gaspur	Primary	MW-33A-120717	< 1	**180**	**220**	**16**	**10**	**2.1**	**60**	**4.6**	**0.78 J**	< 1	**140**	< 0.6
MW-33B	07/01/2005	Intermediate Gaspur	Primary	MW-33B_20050701_A	< 0.5	**39 D**	**41 D**	**1.1**	**0.5 JB**	**1.9 B**	**1.3**	< 0.5	< 0.5	< 0.5	**1.4**	NA
MW-33B	07/01/2005	Intermediate Gaspur	Primary	MW-33B_20050701_B	< 0.5	**26 D**	**30 D**	< 0.5	**2.5**	< 0.5	**1.9**	< 0.5	**0.15 J**	< 0.5	**2.1**	NA
MW-33B	08/01/2005	Intermediate Gaspur	Primary	MW-33B_20050801	< 0.5	**30**	**36**	**2.3**	**3.8**	**0.6**	**2.9**	**0.5**	< 0.5	< 0.5	**2.5**	NA
MW-33B	09/01/2005	Intermediate Gaspur	Primary	MW-33B_20050901_A	< 0.5	**38**	**42**	**2.4**	**3.3**	**0.6**	**2.4**	< 0.5	< 0.5	< 0.5	**2**	NA
MW-33B	09/01/2005	Intermediate Gaspur	Primary	MW-33B_20050901_B	< 0.5	**34**	**32**	**1.5**	**2.7**	< 0.5	**1.7**	< 0.5	< 0.5	< 0.5	< 1	NA
MW-33B	10/01/2005	Intermediate Gaspur	Primary	MW-33B_20051001	< 0.5	**35**	**28**	**1**	**2.1**	**0.2 J**	**1.2**	**0.3**	< 0.5	< 0.5	**0.6**	NA
MW-33B	11/01/2005	Intermediate Gaspur	Primary	MW-33B_20051101	< 0.5	**34**	**28**	**1.3**	**2.9**	**0.3**	**1.3**	**0.3**	< 0.5	< 0.5	**0.6 J**	NA
MW-33B	01/01/2006	Intermediate Gaspur	Primary	MW-33B_20060101	< 0.5	**41**	**28**	**1.5**	**3.1**	**0.3**	**1.4**	**0.4**	< 0.5	< 0.5	**0.7**	NA
MW-33B	03/01/2006	Intermediate Gaspur	Primary	MW-33B_20060301	< 0.5	**26 D**	**25 D**	**0.97**	**1.9**	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	**0.8**	NA
MW-33B	04/01/2006	Intermediate Gaspur	Primary	MW-33B_20060401	< 0.5	**30**	**26**	**0.9**	**1.9**	**0.3**	**1.2**	< 0.5	**0.3 J**	< 0.5	**0.8**	NA
MW-33B	05/01/2006	Intermediate Gaspur	Primary	MW-33B_20060501	< 0.5	**24**	**24**	**1**	**1.9**	**0.2 J**	**1.1**	< 0.5	< 0.5	< 0.5	**0.8**	NA
MW-33B	06/01/2006	Intermediate Gaspur	Primary	MW-33B_20060601	< 0.5	**25**	**28**	**0.9**	**2.1**	**0.2**	**1**	**0.2 J**	< 0.5	< 0.5	**1**	NA
MW-33B	08/01/2006	Intermediate Gaspur	Primary	MW-33B_20060801	< 0.5	**21**	**27 D**	**0.95**	**1.7**	< 0.5	**1.4**	< 0.5	< 0.5	< 0.5	**0.7 J**	NA
MW-33B	03/01/2008	Intermediate Gaspur	Primary	MW-33B_20080301	< 0.5	**31 D**	**140 D**	**4.9**	**6.5**	**1.3**	**8.4**	**0.68**	**0.25 J**	**0.77**	**16**	NA
MW-33B	05/12/2009	Intermediate Gaspur	Primary	MW-33B_20090512	< 2.5	**28**	**160 D**	**7**	**5.4**	**1.8 J**	**12**	< 2.5	< 2.5	< 2.5	< 2	NA
MW-33B	07/14/2010	Intermediate Gaspur	Primary	MW-33B	< 0.5	**19**	**160**	**10**	**7.1**	**1.8**	**14**	**0.88**	< 0.5	**0.79**	**22 J**	< 0.5
MW-33B	06/16/2011	Intermediate Gaspur	Primary	MW-33B-06162011	< 0.5	**9.2**	**120**	**7.8**	**5.5**	**2.9**	**8.5**	**0.51**	< 0.5	< 0.5	**40**	< 0.5
MW-33B	12/08/2011	Intermediate Gaspur	Primary	MW-33B_20111208	< 0.5	**9.9**	**100**	**6**	**4.5**	**1.6**	**8.1**	**0.59**	< 0.5	**0.66**	**18**	< 0.5
MW-33B	06/08/2012	Intermediate Gaspur	Primary	MW-33B-06082012	< 0.5	**8**	**140**	**8.9**	**6.4**	**2**	**9.9**	**0.81**	< 0.5	**1.1**	**16 J**	< 0.5
MW-33B	12/14/2012	Intermediate Gaspur	Primary	MW-33B-12142012	< 0.5	**6.1**	**130**	**7.1**	**5.2**	**1.2**	**7.6**	**0.56**	< 0.5	**0.78**	**14 J**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-33B	06/20/2013	Intermediate Gaspur	Primary	MW-33B-062013	< 0.5	**5.2**	**120**	**7.4**	**4.1**	**1.5**	**12**	**0.61**	< 0.2	< 0.5	**25**	< 0.3
MW-33B	12/12/2013	Intermediate Gaspur	Primary	MW-33B-121213	< 0.5	**3**	**39**	**3.8**	**2**	**0.68**	**2.4**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-33B	06/09/2014	Intermediate Gaspur	Primary	MW-33B-060914	< 0.5	**2.2**	**22**	**1.6**	**1.1**	< 0.5	**1.4**	**0.41 J**	< 0.2	< 0.5	**4.6**	< 0.3
MW-33B	12/16/2014	Intermediate Gaspur	Primary	MW-33B-121614	< 0.5	**2.2**	**43**	**2.9**	**2**	< 0.5	**2.6**	**0.37 J**	< 0.2	< 0.5	**5**	< 0.3
MW-33B	06/10/2015	Intermediate Gaspur	Primary	MW-33B-061015	< 0.5	**2.5**	**42**	**2.9**	**2.5**	< 0.5	**2.5**	**0.86**	< 0.2	< 0.5	**4**	< 0.3
MW-33B	12/09/2015	Intermediate Gaspur	Primary	MW-33B-120915	< 0.5	**2.1**	**44**	**2.4**	**2**	< 0.5	**2.6**	**0.87**	< 0.2	< 0.5	**3.1**	< 0.3
MW-33B	06/10/2016	Intermediate Gaspur	Primary	MW-33B-061016	< 0.5	**2.1 J**	**29**	**2.4**	**1.3**	< 0.5	**1.3**	**0.59**	< 0.2	< 0.5	**4.8**	< 0.3
MW-33B	06/10/2016	Intermediate Gaspur	Duplicate	QC16-061016	< 0.5	**3.7 J**	**30**	**2.5**	**1.5**	< 0.5	**1.6**	**0.64**	< 0.2	< 0.5	**4.7**	< 0.3
MW-33B	12/01/2016	Intermediate Gaspur	Primary	MW-33B-120116	< 0.5	**2.3**	**35**	**3.3**	**2.1**	< 0.5	**1.2**	**0.6**	< 0.2	< 0.5	**8.3**	< 0.3
MW-33B	06/09/2017	Intermediate Gaspur	Primary	MW-33B-060917	< 0.5	**0.71**	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-33B	12/07/2017	Intermediate Gaspur	Primary	MW-33B-120717	< 0.5	**0.77**	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-33B	12/07/2018	Intermediate Gaspur	Primary	MW-33B-120718	< 0.5	**1.8**	**25**	**2.9**	**1.4**	< 0.5	**0.9**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-33B	06/13/2019	Intermediate Gaspur	Primary	MW-33B-061319	< 0.5	**1.6**	**34**	**2.8**	**1.4**	< 0.4	**1.2**	< 0.2	< 0.4	< 0.3	**11**	< 0.2
MW-33B	12/05/2019	Intermediate Gaspur	Primary	MW-33B-120519	< 0.5	**1.7**	**35**	**2.8**	**1.7**	**0.47 J**	**1**	< 0.2	< 0.4	< 0.3	**18**	< 0.2
MW-33B	06/09/2020	Intermediate Gaspur	Primary	MW-33B-060920	< 0.5	**1.7**	**34**	**2.4**	**1.4**	< 0.5	**0.96**	< 0.5	< 0.5	< 0.5	**15**	< 0.5
MW-33B	11/19/2020	Intermediate Gaspur	Primary	MW-33B-111920	< 0.5	**0.92**	**5.8**	< 0.5	< 0.5	< 0.5	**0.26 J**	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5
MW-33B	05/20/2021	Intermediate Gaspur	Primary	MW-33B-052021	< 0.5	**0.7**	**21**	**1.9**	**0.84**	< 0.5	**1.5**	< 0.5	< 0.5	< 0.5	**16**	< 0.5
MW-33B	05/20/2021	Intermediate Gaspur	Duplicate	QC18-052021	< 0.5	**0.75**	**22**	**1.8**	**0.91**	< 0.5	**1.5**	< 0.5	< 0.5	< 0.5	**16**	< 0.5
MW-33B	11/18/2021	Intermediate Gaspur	Primary	MW-33B-111821	< 0.5 J	**0.57 J**	**17**	**3.9**	**0.91**	**0.49 J**	**0.9**	< 0.5 J	< 0.5	< 0.5 J	**15 J**	< 0.5 J
MW-33B	06/23/2022	Intermediate Gaspur	Primary	MW-33B-062322	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.55 J**	< 0.005
MW-33B	06/23/2022	Intermediate Gaspur	Duplicate	QC12-062322	< 0.5	< 0.5	**0.77**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-33B	12/14/2022	Intermediate Gaspur	Primary	MW-33B-121422	< 0.5	**0.48 J**	**19**	**1.5**	**0.55**	< 0.5	**0.79**	**0.65**	< 0.5	< 0.5	**12**	**0.023**
MW-33B	05/17/2023	Intermediate Gaspur	Primary	MW-33B-051723	< 0.5	< 0.5	**14**	**1.7**	**0.52**	**0.54**	**0.62**	**0.32 J**	< 0.5	< 0.5	**11 J**	**0.018**
MW-33B	05/17/2023	Intermediate Gaspur	Duplicate	QC08-051723	< 0.5	< 0.5	**14**	**1.9**	< 0.5	**0.51**	**0.56**	**0.34 J**	< 0.5	< 0.5	**1.5 J**	**0.018**
MW-33B	12/01/2023	Intermediate Gaspur	Primary	MW-33B-120123	< 0.5	**0.34 J**	**17**	**2.1**	**0.69**	**0.97**	**0.64**	**0.38 J**	< 0.5	< 0.5	**10**	**0.019**
MW-33B	05/06/2024	Intermediate Gaspur	Primary	MW-33B-050624	< 0.5	**0.36 J**	**24**	**2.3**	**0.9**	**0.61**	**0.73**	**0.36 J**	< 0.5	< 0.5	**13**	**0.018**
MW-33B	11/21/2024	Intermediate Gaspur	Primary	MW-33B-112124	< 0.5	< 0.5 J	**21**	**2.1**	**0.84**	**1.2**	**0.76**	**0.3 J**	< 0.5	< 0.5	**10**	**0.024**
MW-34	03/01/2008	Shallow Gaspur	Primary	MW-34_20080301	< 0.5	**6.1**	**180 D**	**1.4**	**8.1**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-34	05/16/2009	Shallow Gaspur	Primary	MW-34_20090516	< 0.5	**46 E**	**420 E**	**1.8**	**24 E**	**0.71**	**0.5**	< 0.5	< 0.5	< 0.5	< 2	NA
MW-34	12/09/2011	Shallow Gaspur	Primary	MW-34_20111209	< 2.5	**46**	**540**	< 2.5	**20**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**5.6**	< 2.5
MW-34	12/09/2011	Shallow Gaspur	Duplicate	DUP6-12092011	< 5	**41**	**500**	< 5	**18**	< 5	< 5	< 5	< 5	< 5	**5.3**	< 5
MW-34	06/12/2012	Shallow Gaspur	Split	MW-34-061212-SPL	< 2	**52**	**600 D**	**2.1**	**26**	**1.4 J**	**2.2**	< 2	< 2	< 2	**2.5**	NA
MW-34	06/12/2012	Shallow Gaspur	Primary	MW-34-061212	< 2.5	**56**	**620**	< 2.5	**25**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**5.3**	< 2.5
MW-34	06/12/2012	Shallow Gaspur	Duplicate	DUP1-061212	< 5	**64**	**730**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**5.2**	< 5
MW-34	12/12/2012	Shallow Gaspur	Primary	MW-34-12122012	< 5	**63**	**610**	< 5	**26**	< 5	< 5	< 5	< 5	< 5	**4.8**	< 5
MW-34	12/12/2012	Shallow Gaspur	Duplicate	DUP5-12122012	< 5	**64**	**630**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**5.3**	< 5
MW-34	03/26/2014	Shallow Gaspur	Primary	MW34-0314	< 2.5	**45**	**470**	< 2.5	**25**	< 2.5	**1.6 J**	< 2.5	< 2.5	< 2.5	**1.3**	< 2.5
MW-34	03/26/2014	Shallow Gaspur	Duplicate	MW934-0314	< 2	**38**	**450**	< 2	**20**	< 2	**1.3 J**	< 2	< 2	< 2	**1.5**	< 2
MW-34	07/12/2016	Shallow Gaspur	Primary	MW34-0716	< 0.5	**4.5**	**170**	**0.94**	**9.9**	**0.81**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-34	11/30/2016	Shallow Gaspur	Primary	MW-34-113016	< 1	**22**	**390**	**1.6**	**17**	< 1	**0.82 J**	< 0.6	< 0.4	< 1	**1.6 J**	< 0.6
MW-34	06/06/2017	Shallow Gaspur	Primary	MW-34-060617	< 0.5	**14**	**290**	**1.4**	**18**	**1.1**	**0.48 J**	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-34	12/08/2017	Shallow Gaspur	Primary	MW-34-120817	< 2.5	**49**	**470**	**2 J**	**24**	< 2.5	< 1	< 1.5	< 1	< 2.5	**1.5 J**	< 1.5
MW-34	12/08/2017	Shallow Gaspur	Duplicate	QC19-120817	< 2.5	**48**	**500**	**1.9 J**	**27**	< 2.5	< 1	< 1.5	< 1	< 2.5	**1.4 J**	< 1.5

TABLE 8
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COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-34	06/05/2018	Shallow Gaspur	Primary	MW-34-060518	< 2.5	**97**	**580**	< 1.5	**22**	< 2.5	**4.1**	< 1.5	< 1	< 2.5	**2.7**	< 1.5
MW-34	12/13/2022	Shallow Gaspur	Primary	MW-34-121322	**2.8 J**	**31 J**	**110**	**1.1**	**3.6**	**1.7**	**3**	**13**	< 0.5	< 0.5	**8.5 J**	**0.0064**
MW-35	03/01/2008	Lower Gaspur	Primary	MW-35_20080301	< 0.5	**120 D**	**78 D**	**2**	**12**	**0.43 J**	**0.92**	**10**	**0.41 J**	< 0.5	**7.8**	NA
MW-35	05/15/2009	Lower Gaspur	Primary	MW-35_20090515	< 0.5	**120 D**	**19 D**	**1.1**	**8.1**	< 0.5	**0.44 J**	**9.2 J**	**0.31 J**	< 0.5	< 2	NA
MW-35	12/07/2011	Lower Gaspur	Primary	MW-35_20111207	< 0.5	**17**	**45**	**0.67**	**4.2**	< 0.5	< 0.5	**6.5**	< 0.5	< 0.5	**6.3**	< 0.5
MW-35	06/08/2012	Lower Gaspur	Primary	MW-35-06082012	< 0.5	**16**	**37**	**0.64**	**3.3**	< 0.5	< 0.5	**5.6**	< 0.5	< 0.5	**7.8**	< 0.5
MW-35	12/12/2012	Lower Gaspur	Primary	MW-35-12122012	< 0.5	**4.6**	**26**	< 0.5	**3.5**	**20**	< 0.5	**8.6**	< 0.5	< 0.5	**7.4**	< 0.5
MW-35	03/26/2014	Lower Gaspur	Primary	MW35-0314	< 0.5	**6.9**	**58**	< 0.5	**5.5**	< 0.5	**0.33 J**	**5.8**	< 0.5	< 0.5	**2.3**	< 0.5
MW-35	07/12/2016	Lower Gaspur	Primary	MW35-0716	< 0.5	**3.5**	**330**	**4**	**15**	< 0.5	**3**	**6.8**	**0.7**	< 0.5	**19**	< 0.5
MW-35	11/30/2016	Lower Gaspur	Primary	MW-35-113016	< 2.5	**1.9 J**	**420**	**4.4**	**15**	< 2.5	**3.2**	**5.2**	< 1	< 2.5	**23**	< 1.5
MW-35	06/06/2017	Lower Gaspur	Primary	MW-35-060617	< 0.5	< 0.2	**0.61**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-35	12/06/2017	Lower Gaspur	Primary	MW-35-120617	< 0.5	< 0.2	**0.52**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-35	06/05/2018	Lower Gaspur	Primary	MW-35-060518	< 0.5	**3.7**	**650**	**7.5**	**24**	**10 J**	**5.1 J**	**40**	**1.3 J**	< 0.5	**15 J**	< 0.3
MW-35	12/19/2022	Lower Gaspur	Primary	MW-35-121922	< 0.5	< 0.5	**0.38 J**	< 0.5	< 0.5	**3.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-36	03/01/2008	Intermediate Gaspur	Primary	MW-36_20080301	< 0.5	**7.6**	**4.9**	< 0.5	**0.61**	< 0.5	**0.24 J**	**1.6**	< 0.5	< 0.5	**0.82 J**	NA
MW-36	05/15/2009	Intermediate Gaspur	Primary	MW-36_20090515	< 0.5	**7**	**6.7**	< 0.5	**1.4**	< 0.5	< 0.5 J	**2.4**	< 0.5	< 0.5	**2.2**	NA
MW-36	06/15/2011	Intermediate Gaspur	Primary	MW-36-06152011	< 0.5	**7.8**	**12**	< 0.5	**2.4**	< 0.5	< 0.5	**3**	**0.61**	< 0.5	< 4	< 0.5
MW-36	06/15/2011	Intermediate Gaspur	Duplicate	DUP3-06152011	< 0.5	**8.1**	**13**	< 0.5	**2.5**	< 0.5	< 0.5	**3.2**	**0.61**	< 0.5	< 4	< 0.5
MW-36	12/08/2011	Intermediate Gaspur	Primary	MW-36_20111208	< 0.5	**9.8**	**13**	< 0.5	**2.7**	< 0.5	< 0.5	**2.9**	< 0.5	< 0.5	< 0.96	< 0.5
MW-36	06/08/2012	Intermediate Gaspur	Primary	MW-36-06082012	< 0.5	**9.9**	**13**	< 0.5	**3.4**	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 0.94	< 0.5
MW-36	12/11/2012	Intermediate Gaspur	Primary	MW-36-12112012	< 0.5	**4.4**	**5.3**	< 0.5	**0.75**	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	**0.98**	< 0.5
MW-36	06/20/2013	Intermediate Gaspur	Primary	MW-36-062013	< 0.5	**8.2**	**11**	< 0.3	**4.4**	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/10/2013	Intermediate Gaspur	Primary	MW-36-121013	< 0.5	**8.2**	**11**	< 0.3	**3.2**	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/10/2014	Intermediate Gaspur	Primary	MW-36-061014	< 0.5	**5.9**	**8.8**	< 0.3	**2.7**	< 0.5	< 0.2	**0.97**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/18/2014	Intermediate Gaspur	Primary	MW-36-121814	< 0.5	**5.2**	**11**	< 0.3	**2.9**	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/08/2015	Intermediate Gaspur	Primary	MW-36-060815	< 0.5	**5.6**	**9**	< 0.3	**2.6**	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/10/2015	Intermediate Gaspur	Primary	MW-36-121015	< 0.5	**3.6**	**9.1**	< 0.3	**2.6**	< 0.5	< 0.2	**0.88**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/07/2016	Intermediate Gaspur	Primary	MW-36-060716	< 0.5	**3.7**	**7.3**	< 0.3	**2.1**	< 0.5	< 0.2	**0.85**	< 0.2	< 0.5	< 1	< 0.3
MW-36	11/29/2016	Intermediate Gaspur	Primary	MW-36-112916	< 0.5	**1.7**	**9**	< 0.3	**2.1**	< 0.5	< 0.2	**0.94**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/08/2017	Intermediate Gaspur	Primary	MW-36-060817	< 0.5	**0.53**	**2.8**	< 0.3	< 0.4	< 0.5	< 0.2	**0.38 J**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/05/2017	Intermediate Gaspur	Primary	MW-36-120517	< 0.5	**0.58**	**2.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1 J**	< 0.3
MW-36	12/05/2018	Intermediate Gaspur	Primary	MW-36-120518	< 0.5	**1.1**	**2.9**	< 0.3	**0.71**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/05/2019	Intermediate Gaspur	Primary	MW-36-120519	< 0.5	**1.1**	**3.8**	< 0.4	**0.95**	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-36	11/17/2020	Intermediate Gaspur	Primary	MW-36-111720	< 0.5	**0.61**	**4.2**	< 0.5	< 0.5	**0.47 J**	< 0.5	**0.75**	< 0.5	< 0.5	**0.56 J**	< 0.5
MW-36	05/18/2021	Intermediate Gaspur	Primary	MW-36-051821	< 0.5	**0.83**	**2.8**	< 0.5	**0.62**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-36	11/16/2021	Intermediate Gaspur	Primary	MW-36-111621	< 0.5 J	**0.63 J**	**3.5**	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5 J
MW-36	06/24/2022	Intermediate Gaspur	Primary	MW-36-062422	< 0.5	**0.36 J**	**2**	< 0.5	**0.54**	< 0.5	< 0.5	**0.25 J**	< 0.5	< 0.5	< 2	**0.014**
MW-36	12/12/2022	Intermediate Gaspur	Primary	MW-36-121222	< 0.5	**1.4**	**5.8**	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.68 J**	**0.012**
MW-36	05/16/2023	Intermediate Gaspur	Primary	MW-36-051623	< 0.5	**0.47 J**	**2.9**	< 0.5	**0.91**	< 0.5	< 0.5	**0.25 J**	< 0.5	< 0.5	< 2	**0.012**
MW-36	11/30/2023	Intermediate Gaspur	Primary	MW-36-113023	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	**0.012**
MW-36	11/19/2024	Intermediate Gaspur	Primary	MW-36-111924	< 0.5	**0.61**	**13**	< 0.5	**3.1**	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	< 1	**0.0076**
MW-37	03/01/2008	Lower Gaspur	Primary	MW-37_20080301	< 0.5	**66 DJ**	**32 D**	**1.1**	**2.8**	**0.98**	**3**	**2.9**	**0.3 J**	< 0.5	**5.8**	NA
MW-37	05/15/2009	Lower Gaspur	Primary	MW-37_20090515	< 0.5 J	**92 DJ**	**39 DJ**	**0.75 J**	**2.5 J**	< 0.5 J	**1.3 J**	**2 J**	< 0.5 J	< 0.5 J	< 2	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-37	06/15/2011	Lower Gaspur	Primary	MW-37-06152011	< 0.5	**1.9**	**150**	**1.4**	**7.2**	< 0.5	**1.6**	**5.5**	< 0.5	< 0.5	**13**	< 0.5
MW-37	12/08/2011	Lower Gaspur	Primary	MW-37_20111208	< 0.5	**1.2**	**94**	**0.74**	**4.2**	< 0.5	**1**	**4.9**	< 0.5	< 0.5	**9.5**	< 0.5
MW-37	06/12/2012	Lower Gaspur	Primary	MW-37-06122012	< 0.5	**4.1**	**58**	**0.51**	**3.6**	< 0.5	**0.85**	**7**	**2**	< 0.5	**2.5**	< 0.5
MW-37	12/13/2012	Lower Gaspur	Primary	MW-37-12132012	< 0.5	**5.8**	**53**	**0.52**	**3.9**	**0.5**	**0.63**	**7.4**	**3.1**	< 0.5	< 2	< 0.5
MW-37	06/20/2013	Lower Gaspur	Primary	MW-37-062013	< 0.5	**1.8**	**110**	**1.3**	**6.2**	< 0.5	**1.1**	**3.6**	**0.56**	< 0.5	**12**	< 0.3
MW-37	12/10/2013	Lower Gaspur	Primary	MW-37-121013	< 0.5	**2.4**	**100**	**0.9**	**5.7**	**0.51**	**0.81**	**4.9**	**2.1**	< 0.5	**9.1**	< 0.3
MW-37	06/10/2014	Lower Gaspur	Primary	MW-37-061014	< 0.5	**2.8**	**160**	**1.5**	**8.2**	< 0.5	**1**	**4.4**	**1.4**	< 0.5	**12**	< 0.3
MW-37	12/18/2014	Lower Gaspur	Primary	MW-37-121814	< 0.5	**2.6**	**84**	**0.85**	**5.9**	**0.73**	**0.7**	**2.6**	**1.5**	< 0.5	**10**	< 0.3
MW-37	12/18/2014	Lower Gaspur	Duplicate	DUP05-121814	< 0.5	**2.6**	**83**	**0.83**	**5.7**	**0.7**	**0.65**	**2.8**	**1.5**	< 0.5	**10**	< 0.3
MW-37	06/08/2015	Lower Gaspur	Primary	MW-37-060815	< 0.5	**3**	**81**	**0.81**	**9.5**	**2.3**	**0.77**	**5.3**	**5.7**	< 0.5	**7.8**	< 0.3
MW-37	12/10/2015	Lower Gaspur	Primary	MW-37-121015	< 0.5	**4.4**	**130**	**1.4**	**10**	**0.79**	**1.5**	**3.2**	**1**	< 0.5	**11**	< 0.3
MW-37	12/10/2015	Lower Gaspur	Duplicate	DUP05-121015	< 0.5	**4.9**	**130**	**1.5**	**11**	**0.68**	**1.4**	**3.4**	**1.2**	< 0.5	**11**	< 0.3
MW-37	06/08/2016	Lower Gaspur	Primary	MW-37-060816	< 0.5	**4.5**	**140**	**2.4**	**12**	**0.78**	**1.7**	**4.3**	**1.2**	< 0.5	**12**	< 0.3
MW-37	11/29/2016	Lower Gaspur	Primary	MW-37-112916	< 0.5	**2.5**	**100**	**1.2**	**13**	**1.2**	**0.97**	**4**	**6.4**	< 0.5	**10**	< 0.3
MW-37	06/08/2017	Lower Gaspur	Primary	MW-37-060817	< 0.5	**3.3**	**140**	**1.6**	**10**	< 0.5	**1.6**	**2.3**	**0.99**	< 0.5	**15**	< 0.3
MW-37	12/06/2017	Lower Gaspur	Primary	MW-37-120617	< 1	< 0.4	**62**	< 0.6	**9.5**	**2.7**	< 0.4	**2.7**	**6.2**	< 1	< 1	< 0.6
MW-37	06/07/2018	Lower Gaspur	Primary	MW-37-060718	< 0.5	**2.6**	**72**	**0.7**	**7.2**	< 0.5	**1.8**	**2.2**	**1.7**	< 0.5	**8.6**	< 0.3
MW-37	12/05/2018	Lower Gaspur	Primary	MW-37-120518	< 0.5	**2.8**	**68 J+**	**0.67 J+**	**6.4 J+**	< 0.5	**1.5 J+**	**3**	**1.5**	< 0.5	**11**	< 0.3
MW-37	12/05/2018	Lower Gaspur	Duplicate	QC13-120518	< 0.5	**2.8**	**72 J+**	**0.87 J+**	**6.6 J+**	< 0.5	**1.4 J+**	**3.1**	**1.5**	< 0.5	**11**	< 0.3
MW-37	06/11/2019	Lower Gaspur	Primary	MW-37-061119	< 0.5	**2.2**	**99**	**0.96**	**9**	**3.3**	**1.6**	**2.4**	**0.76**	< 0.3	**10**	< 0.2
MW-37	12/05/2019	Lower Gaspur	Primary	MW-37-120519	< 1	**2.3**	**120**	**1.1**	**9.6**	**5.3**	**1.3**	**2.2 J**	< 0.8	< 0.6	**14**	< 0.4
MW-37	12/05/2019	Lower Gaspur	Duplicate	QC13-120519	< 0.5	**2.6**	**100**	**1.2**	**10**	**5.9**	**1.6**	**2.7 J**	< 0.4	< 0.3	**14**	< 0.2
MW-37	06/11/2020	Lower Gaspur	Primary	MW-37-061120	< 0.5	< 0.5	**3.5**	< 0.5	**4.3**	**20**	< 0.5	**1.6 J**	**1.8**	< 0.5	**1.1 J**	< 0.5
MW-37	11/17/2020	Lower Gaspur	Primary	MW-37-111720	< 0.5	< 0.5	**0.69**	< 0.5	**2**	**15**	< 0.5	**1.2**	**1**	< 0.5	**0.88 J**	< 0.5
MW-37	01/13/2021	Lower Gaspur	Primary	MW-37-011321	< 0.5	**1.5**	**61**	< 0.5	**5.1**	**5.8**	**0.64**	**1.4**	**0.44 J**	< 0.5	**13**	< 0.5
MW-37	01/13/2021	Lower Gaspur	Duplicate	QC04-011321	< 0.5	**1.5**	**64**	**0.55**	**4.8**	**5.6**	**0.66**	**1.8**	**0.49 J**	< 0.5	**12**	< 0.5
MW-37	05/18/2021	Lower Gaspur	Primary	MW-37-051821	< 0.5	**0.34 J**	**21**	< 0.5	**3.5**	**12**	**0.55**	**2.6**	**0.96**	< 0.5	**8.2**	< 0.5
MW-37	11/18/2021	Lower Gaspur	Primary	MW-37-111821	< 0.5	**0.7 J**	**71**	**0.81**	**7.7**	**7.5 J**	**1**	**1.6 J**	< 0.5	< 0.5 J	**11 J**	< 0.5
MW-37	11/18/2021	Lower Gaspur	Duplicate	QC19-111821	< 0.5 J	**0.67 J**	**68**	**0.73**	**7.4**	**7 J**	**0.95**	**1.7 J**	< 0.5	< 0.5 J	**11 J**	< 0.5 J
MW-37	06/24/2022	Lower Gaspur	Primary	MW-37-062422	< 0.5	**0.32 J**	**79**	**0.6**	**7.2**	**6.2**	**0.64**	**1.6**	< 0.5	< 0.5	**13**	**0.032**
MW-37	12/19/2022	Lower Gaspur	Primary	MW-37-121922	< 0.5	< 0.5	**1.6**	< 0.5	**2.7**	**24**	< 0.5	**2.1**	**0.73**	< 0.5	**0.56 J**	**0.085**
MW-37	05/16/2023	Lower Gaspur	Primary	MW-37-051623	< 0.5	< 0.5	**61 J**	< 0.5	**4.8**	**9.9**	**0.96**	**1.8 J**	< 0.5	< 0.5	**13**	**0.033**
MW-37	11/30/2023	Lower Gaspur	Primary	MW-37-113023	< 0.5	< 0.5	**1.1**	< 0.5	**2.4**	**21**	< 0.5	**1.5**	**0.58**	< 0.5	< 2	**0.073 J**
MW-37	05/07/2024	Lower Gaspur	Primary	MW-37-050724	< 0.5	< 0.5	**10**	< 0.5	**2.7**	**39**	**0.85**	**1.8**	**0.57**	< 0.5	**8.3 J**	**0.099**
MW-37	05/07/2024	Lower Gaspur	Duplicate	QC09-050724	< 0.5	< 0.5	**8.9**	< 0.5	**2.3**	**35**	**0.71**	**1.8**	**0.45 J**	< 0.5	**8.4 J**	**0.096**
MW-37	11/19/2024	Lower Gaspur	Primary	MW-37-111924	< 0.5	< 0.5	**2 J**	< 0.5	**3.4**	**34**	**0.35 J**	**1.7**	**0.93**	< 0.5	< 1 J	**0.13**
MW-37	11/19/2024	Lower Gaspur	Duplicate	QC02-111924	< 0.5	< 0.5	**1.4 J**	< 0.5	**2.7**	**27**	**0.33 J**	**1.6**	**0.73**	< 0.5	**2 J**	**0.12**
MW-38	03/01/2008	Shallow Gaspur	Primary	MW-38_20080301	< 0.5	**1.1**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-38	05/16/2009	Shallow Gaspur	Primary	MW-38_20090516	< 0.5	**0.94**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-38	06/14/2011	Shallow Gaspur	Primary	MW-38-06142011	< 0.5	**0.67**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-38	12/06/2011	Shallow Gaspur	Primary	MW-38_20111206	< 0.5	**0.68**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-38	06/08/2012	Shallow Gaspur	Primary	MW-38-06082012	< 0.5	**0.61**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-38	12/13/2012	Shallow Gaspur	Primary	MW-38-12132012	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 4.7 J	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-38	12/10/2013	Shallow Gaspur	Primary	MW-38-121013	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/16/2014	Shallow Gaspur	Primary	MW-38-121614	< 0.5	< 0.2	**0.25 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/08/2015	Shallow Gaspur	Primary	MW-38-120815	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	08/08/2016	Shallow Gaspur	Primary	MW-38-080816	< 0.5	< 0.2	**0.38 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	11/28/2016	Shallow Gaspur	Primary	MW-38-112816	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	06/09/2017	Shallow Gaspur	Primary	MW-38-060917	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/05/2017	Shallow Gaspur	Primary	MW-38-120517	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	06/08/2018	Shallow Gaspur	Primary	MW-38-060818	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	06/08/2018	Shallow Gaspur	Duplicate	QC20-060818	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/05/2018	Shallow Gaspur	Primary	MW-38-120518	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/05/2019	Shallow Gaspur	Primary	MW-38-120519	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
MW-38	11/17/2020	Shallow Gaspur	Primary	MW-38-111720	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-38	12/29/2021	Shallow Gaspur	Primary	MW-38-122921	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-38	12/12/2022	Shallow Gaspur	Primary	MW-38-121222	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-38	11/28/2023	Shallow Gaspur	Primary	MW-38-112823	< 0.5	**0.8**	**0.79**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-38	11/19/2024	Shallow Gaspur	Primary	MW-38-111924	< 0.5	**0.5**	**15**	< 0.5	**4.6**	< 0.5	**0.5**	**0.89 J**	< 0.5	< 0.5	**4**	**0.026**
MW-39	03/01/2008	Intermediate Gaspur	Primary	MW-39_20080301	< 0.5	**16**	**6.6**	**0.23 J**	**1.1**	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	**2.6**	NA
MW-39	05/16/2009	Intermediate Gaspur	Primary	MW-39_20090516	< 0.5	**17**	**7.2**	**0.44 J**	**0.99**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.9 J**	NA
MW-39	06/15/2011	Intermediate Gaspur	Primary	MW-39-06152011	< 0.5	**57**	**28**	**1.5**	**2.4**	< 0.5	**1.3**	**0.79**	< 0.5	< 0.5	**36**	**4.3**
MW-39	12/08/2011	Intermediate Gaspur	Primary	MW-39_20111208	< 0.5	**25**	**68**	**1.5**	**2.7**	< 0.5	**2.3**	**0.86**	< 0.5	< 0.5	**76**	**6.2**
MW-39	06/12/2012	Intermediate Gaspur	Split	MW-39-061212-SPL	< 0.5	**8**	**40 D**	**1**	**1.4**	**0.29 J**	**2**	< 0.5	< 0.5	**0.15 J**	**23**	NA
MW-39	06/12/2012	Intermediate Gaspur	Primary	MW-39-061212	< 0.5	**9.6**	**47**	**1.1**	**1.2**	< 0.5	**2.5**	< 0.5	< 0.5	< 0.5	**47**	**1.5**
MW-39	12/11/2012	Intermediate Gaspur	Primary	MW-39-12112012	< 0.5	**3.8**	**29**	**0.66**	**0.89**	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	**19**	**0.61**
MW-39	12/10/2013	Intermediate Gaspur	Primary	MW-39-121013	< 0.5	**14**	**68**	**2.4**	**3.7**	< 0.5	**6.5**	< 0.3	< 0.2	< 0.5	**47**	< 0.3
MW-39	12/16/2014	Intermediate Gaspur	Primary	MW-39-121614	< 0.5	**7.4**	**54**	**1.9**	**2.8**	< 0.5	**4.7**	**0.42 J**	< 0.2	< 0.5	**35**	< 0.3
MW-39	12/07/2015	Intermediate Gaspur	Primary	MW-39-120715	< 0.5	**10**	**76**	**3.1**	**3.7**	**0.77**	**6.4**	**0.74**	< 0.2	< 0.5	**47**	< 0.3
MW-39	08/08/2016	Intermediate Gaspur	Primary	MW-39-080816	< 0.5	**4.8**	**42**	**1.8**	**2.3**	< 0.5	**1.7**	< 0.3	< 0.2	< 0.5	**23**	**0.75**
MW-39	11/28/2016	Intermediate Gaspur	Primary	MW-39-112816	< 0.5	**5.4**	**85**	**3.3**	**5.2**	< 0.5	**3**	**0.44 J**	< 0.2	< 0.5	**48**	**1.8**
MW-39	06/09/2017	Intermediate Gaspur	Primary	MW-39-060917	< 0.5	**0.82**	**6.6**	< 0.3	< 0.4	< 0.5	**0.32 J**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-39	06/09/2017	Intermediate Gaspur	Duplicate	QC05-060917	< 0.5	**0.87**	**7.1**	< 0.3	< 0.4	< 0.5	**0.34 J**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-39	12/05/2017	Intermediate Gaspur	Primary	MW-39-120517	< 0.5	**0.72**	**11**	< 0.3	**0.56**	< 0.5	**0.59**	< 0.3	< 0.2	< 0.5	**8.2**	< 0.3
MW-39	06/08/2018	Intermediate Gaspur	Primary	MW-39-060818	< 0.5	**6.4**	**79 J**	**2.7**	**5.6**	< 0.5	**3.6**	**0.66**	< 0.2	< 0.5	**22 J**	**1.3**
MW-39	12/05/2018	Intermediate Gaspur	Primary	MW-39-120518	< 0.5	**6**	**58**	**2.1**	**4.1**	< 0.5	**1.9**	**1.1**	< 0.2	< 0.5	**31**	< 0.3
MW-39	12/05/2019	Intermediate Gaspur	Primary	MW-39-120519	< 0.5	**2.5**	**58**	**1.7**	**3.5**	**2**	**1.5**	**2.2**	< 0.4	< 0.3	**27**	< 0.2
MW-39	11/17/2020	Intermediate Gaspur	Primary	MW-39-111720	< 0.5	**0.36 J**	**6.4**	< 0.5	**0.37 J**	**1.2 J**	**0.3 J**	< 0.5	< 0.5	< 0.5	**8.8**	< 0.5
MW-39	11/17/2020	Intermediate Gaspur	Duplicate	QC02-111720	< 0.5	**0.44 J**	**9**	< 0.5	**0.53**	**1.8 J**	**0.45 J**	< 0.5	< 0.5	< 0.5	**8.3**	< 0.5
MW-39	12/29/2021	Intermediate Gaspur	Primary	MW-39-122921	< 0.5	< 0.5 J	**3.7**	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**7.2**	< 0.5
MW-39	12/29/2021	Intermediate Gaspur	Duplicate	QC04-122921	< 0.5	< 0.5 J	**2.8**	< 0.5	< 0.5	**0.92**	< 0.5	< 0.5	< 0.5	< 0.5	**7.1**	< 0.5
MW-39	12/12/2022	Intermediate Gaspur	Primary	MW-39-121222	< 0.5	**4.1**	**89**	**2.7**	**5.8**	< 0.5	**6.8**	**2.6**	< 0.5	< 0.5	**41**	**0.35**
MW-39	11/28/2023	Intermediate Gaspur	Primary	MW-39-112823	< 0.5	< 0.5	**50**	**2.5**	**5.2**	**1.4**	**3.8**	**1**	< 0.5	< 0.5	**23**	**0.13**
MW-39	11/28/2023	Intermediate Gaspur	Duplicate	QC04-112823	< 0.5	< 0.5	**51**	**2.6**	**5.2**	**1.4**	**3.9**	**0.95**	< 0.5	< 0.5	**25**	**0.12**
MW-39	11/19/2024	Intermediate Gaspur	Primary	MW-39-111924	< 0.5	< 0.5 J	**29**	**0.97**	**6.6**	**6.4**	**1.7**	**1.2**	< 0.5	< 0.5	**10**	**0.057**
MW-40	03/01/2008	Lower Gaspur	Primary	MW-40_20080301	< 0.5	**44 D**	**9.8**	**0.89**	**3.5**	**0.27 J**	**0.56**	**3.6**	< 0.5	< 0.5	**5.1**	NA

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-40	05/16/2009	Lower Gaspur	Primary	MW-40_20090516	< 0.5	**54 DJ**	**9.9**	**0.76**	**2.6**	< 0.5	**0.56 J**	**2.8 J**	< 0.5	< 0.5	**2.1**	NA
MW-40	06/15/2011	Lower Gaspur	Primary	MW-40-06152011	< 0.5	**22**	**65**	**0.93**	**4.5**	< 0.5	**1.1**	**2.3**	< 0.5	< 0.5	**9.9**	**0.71**
MW-40	12/07/2011	Lower Gaspur	Primary	MW-40_20111207	< 0.5	**4.6**	**82**	**0.95**	**5.9**	< 0.5	**1.1**	**2.1**	< 0.5	< 0.5	**12**	**1.1**
MW-40	06/08/2012	Lower Gaspur	Primary	MW-40-06082012	< 0.5	**1.2**	**60**	**0.64**	**4**	< 0.5	**0.83**	**1.7**	< 0.5	< 0.5	**10**	**0.51**
MW-40	12/12/2012	Lower Gaspur	Primary	MW-40-12122012	< 0.5	**3.2**	**58**	**1**	**5.7**	< 0.5	**1.4**	**1.6**	< 0.5	< 0.5	**12 J**	**1.4**
MW-40	12/10/2013	Lower Gaspur	Primary	MW-40-121013	< 0.5	**4**	**57**	**1.3**	**6.7**	< 0.5	**1.8**	**1.5**	< 0.2	< 0.5	**19**	< 0.3
MW-40	12/16/2014	Lower Gaspur	Primary	MW-40-121614	< 0.5	**2.9**	**41**	**1.5**	**6.5**	< 0.5	**3.1**	**0.9**	< 0.2	< 0.5	**29**	< 0.3
MW-40	12/07/2015	Lower Gaspur	Primary	MW-40-120715	< 0.5	**3.3**	**49**	**1.7**	**6.9**	**0.6**	**3.1**	**1.2**	< 0.2	< 0.5	**19**	< 0.3
MW-40	08/08/2016	Lower Gaspur	Primary	MW-40-080816	< 0.5	**2**	**45**	**2.1**	**7**	**0.66**	**2.9**	**0.9**	< 0.2	< 0.5	**23**	< 0.3
MW-40	11/28/2016	Lower Gaspur	Primary	MW-40-112816	< 0.5	**2.3**	**43**	**1.6**	**7.5**	< 0.5	**2.1**	**0.96**	< 0.2	< 0.5	**20**	< 0.3
MW-40	06/09/2017	Lower Gaspur	Primary	MW-40-060917	< 0.5	**0.95**	**46**	**1.6**	**6.6**	**0.5**	**2.8**	**0.73**	< 0.2	< 0.5	**26**	< 0.3
MW-40	12/05/2017	Lower Gaspur	Primary	MW-40-120517	< 0.5	**0.46 J**	**60**	**2.1**	**7.2**	< 0.5	**3.7**	**0.91**	< 0.2	< 0.5	**23**	< 0.3
MW-40	06/08/2018	Lower Gaspur	Primary	MW-40-060818	< 0.5	**1.4**	**37**	**1.3**	**6.2**	< 0.5	**2.3**	**1.2**	< 0.2	< 0.5	**10**	< 0.3
MW-40	12/05/2018	Lower Gaspur	Primary	MW-40-120518	< 0.5	**0.83**	**28**	**1.2**	**4.6**	< 0.5	**1.4**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-40	12/05/2019	Lower Gaspur	Primary	MW-40-120519	< 0.5	**1.1**	**25**	**0.72**	**3.9**	**3.2**	**0.78**	**2.2**	< 0.4	< 0.3	**8.8**	< 0.2
MW-40	11/17/2020	Lower Gaspur	Primary	MW-40-111720	< 0.5	< 0.5	**4.1**	< 0.5	**8**	**41**	**2.7 J**	**1.6**	< 0.5	< 0.5	**21**	< 0.5
MW-40	12/29/2021	Lower Gaspur	Primary	MW-40-122921	< 0.5	< 0.5 J	**1.4**	< 0.5	**3**	**16**	**1.1**	< 0.5	< 0.5	< 0.5	**19**	< 0.5
MW-40	12/19/2022	Lower Gaspur	Primary	MW-40-121922	< 0.5	< 0.5	**3.6**	< 0.5	**4.1**	**35**	**2.2**	**1.6**	< 0.5	< 0.5	**22**	**0.051**
MW-40	11/28/2023	Lower Gaspur	Primary	MW-40-112823	< 0.5	< 0.5	**4.8**	**0.41 J**	**2.7**	**17**	**1.7**	**1.3**	< 0.5	< 0.5	**14**	**0.059**
MW-40	11/19/2024	Lower Gaspur	Primary	MW-40-111924	< 0.5	< 0.5 J	**16**	**0.66**	**3**	**11**	**1.8**	**2.1**	< 0.5	< 0.5	**17**	**0.069**
MW-41	03/01/2008	Lower Gaspur	Primary	MW-41_20080301	< 0.5	**34 D**	**2.4**	**0.22 J**	**0.47 J**	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	< 2	NA
MW-41	05/14/2009	Lower Gaspur	Primary	MW-41_20090514	< 2	**310 DJ**	**5.5**	< 2	**1.3 J**	< 2	**1.1 J**	< 2	< 2	< 2	< 2	NA
MW-41	06/16/2011	Lower Gaspur	Primary	MW-41-06162011	< 0.5	**8.4**	**28**	< 0.5	**1.2**	< 0.5	**1.8**	**1.8**	< 0.5	< 0.5	**14**	< 0.5
MW-41	12/07/2011	Lower Gaspur	Primary	MW-41_20111207	< 0.5	**8.1**	**53**	**0.99**	**2.6**	**5.6**	**6.8**	**2.8**	< 0.5	< 0.5	**23 J**	< 0.5
MW-41	06/13/2012	Lower Gaspur	Primary	MW-41-06132012	< 0.5	**28**	**72**	< 0.5	**2.2**	< 0.5	**0.58**	**0.69**	< 0.5	< 0.5	**9.2**	< 0.5
MW-41	12/11/2012	Lower Gaspur	Primary	MW-41-12112012	< 0.5	**6.8**	**45**	**0.85**	**2.2**	**5.8**	**6**	**3.1**	< 0.5	< 0.5	**26 J**	< 0.5
MW-41	06/21/2013	Lower Gaspur	Primary	MW-41-062113	< 0.5	**9.3**	**23**	**0.47 J**	**1.3**	**0.79**	**1.6**	**0.95**	< 0.2	< 0.5	**10**	< 0.3
MW-41	12/12/2013	Lower Gaspur	Primary	MW-41-121213	< 0.5	**14**	**46**	**0.64**	**2.5**	**0.56**	**1**	< 0.3	< 0.2	< 0.5	**7**	< 0.3
MW-41	06/11/2014	Lower Gaspur	Primary	MW-41-061114	< 0.5	**7.9**	**25**	**0.39 J**	**1.4**	< 0.5	**0.57**	**0.65**	< 0.2	< 0.5	**5.1**	< 0.3
MW-41	06/11/2014	Lower Gaspur	Duplicate	DUP02-061114	< 0.5	**7.7**	**23**	< 0.3	**1.1**	< 0.5	**0.25 J**	**0.58**	< 0.2	< 0.5	**5.3**	< 0.3
MW-41	12/15/2014	Lower Gaspur	Primary	MW-41-121514	< 0.5	**3**	**13**	< 0.3	**0.82**	< 0.5	**0.35 J**	**0.49 J**	< 0.2	< 0.5	**2.5**	< 0.3
MW-41	06/08/2015	Lower Gaspur	Primary	MW-41-060815	< 0.5	**4.3**	**17**	**0.34 J**	**1.1**	< 0.5	**0.41 J**	**0.58**	< 0.2	< 0.5	**1.7 J**	< 0.3
MW-41	12/08/2015	Lower Gaspur	Primary	MW-41-120815	< 0.5	**4.6**	**20**	**0.38 J**	**0.85**	< 0.5	**0.56**	**0.72**	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-41	06/07/2016	Lower Gaspur	Primary	MW-41-060716	< 0.5	**3.4**	**17**	**0.51**	**0.79**	< 0.5	**0.84**	**0.63**	< 0.2	< 0.5	**3.7**	< 0.3
MW-41	12/01/2016	Lower Gaspur	Primary	MW-41-120116	< 0.5	**2.8**	**9.5**	**0.39 J**	**0.64**	< 0.5	**0.67**	**0.6**	< 0.2	< 0.5	**2.4**	< 0.3
MW-41	06/07/2017	Lower Gaspur	Primary	MW-41-060717	< 0.5	**1.3**	**16**	**0.31 J**	**0.65**	< 0.5	**2.6**	**0.8**	< 0.2	< 0.5	**30**	< 0.3
MW-41	12/05/2017	Lower Gaspur	Primary	MW-41-120517	< 0.5	**1.3**	**15**	< 0.3	**0.43 J**	< 0.5	**2.8**	**0.96**	< 0.2	< 0.5	**22**	< 0.3
MW-41	06/04/2018	Lower Gaspur	Primary	MW-41-060418	< 0.5	**4.2**	**28**	< 0.3	**1**	< 0.5	**0.59**	**2.6**	< 0.2	< 0.5	**2.2**	< 0.3
MW-41	12/03/2018	Lower Gaspur	Primary	MW-41-120318	< 0.5	**4.1**	**20**	**0.45 J**	**0.88**	< 0.5	**0.45 J**	**3.4**	< 0.2	< 0.5	**3**	< 0.3
MW-41	06/11/2019	Lower Gaspur	Primary	MW-41-061119	< 0.5	**2.3**	**33**	**0.4 J**	**1.1**	< 0.4	< 0.2	**7**	< 0.4	< 0.3	**3.2**	< 0.2
MW-41	12/02/2019	Lower Gaspur	Primary	MW-41-120219	< 0.5	**2.6**	**34**	**0.64**	**1.2**	< 0.4	**0.45 J**	**9.7**	< 0.4	< 0.3	**2.6**	< 0.2
MW-41	06/10/2020	Lower Gaspur	Primary	MW-41-061020	< 0.5	**2.1**	**32**	< 0.5	**1.2**	< 0.5	**0.5**	**13**	< 0.5	< 0.5	**2.7**	< 0.5
MW-41	11/17/2020	Lower Gaspur	Primary	MW-41-111720	< 0.5	**0.44 J**	**10**	< 0.5	**0.9**	**2.3**	**2**	**1.2**	< 0.5	< 0.5	**24**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-41	05/17/2021	Lower Gaspur	Primary	MW-41-051721	< 0.5	**0.84**	**28**	< 0.5	**0.95**	< 0.5	**0.34 J**	**5.8**	< 0.5	< 0.5	**2.8**	< 0.5
MW-41	11/15/2021	Lower Gaspur	Primary	MW-41-111521	< 0.5	**0.45 J**	**25**	**0.59**	**1.3**	< 0.5	**0.5**	**5.8**	< 0.5	< 0.5	**2.7 J**	< 0.5
MW-41	06/21/2022	Lower Gaspur	Primary	MW-41-062122	< 0.5	**0.46 J**	**15**	< 0.5	**1.3**	**2.1**	**0.53**	**1.9**	< 0.5	< 0.5	**3.2**	**0.011**
MW-41	12/16/2022	Lower Gaspur	Primary	MW-41-121622	< 0.5	**0.37 J**	**19**	**0.47 J**	**1.6**	**0.64**	**0.35 J**	**3.1**	< 0.5	< 0.5	**2.5**	**0.029**
MW-41	05/15/2023	Lower Gaspur	Primary	MW-41-051523	< 0.5	**0.48 J**	**26**	< 0.5	**1.2**	**0.56**	**0.34 J**	**2.2**	< 0.5	< 0.5	**3.5**	**0.023**
MW-41	11/27/2023	Lower Gaspur	Primary	MW-41-112723	< 0.5	< 0.5	**17**	< 0.5	**1.5**	**1.8**	**0.92**	**1.1**	< 0.5	< 0.5	**6.6**	**0.024**
MW-41	05/03/2024	Lower Gaspur	Primary	MW-41-050324	< 0.5	< 0.5	**19**	< 0.5	**1.1**	**1.4**	**1.2**	**1.2**	< 0.5	< 0.5	**16**	**0.075**
MW-41	11/21/2024	Lower Gaspur	Primary	MW-41-112124	< 0.5	< 0.5 J	**28**	**1.3**	**2.3**	**2.4**	**2.2**	**1.2**	**0.65**	< 0.5	**14**	**0.1**
MW-42	05/14/2009	Shallow Gaspur	Primary	MW-42_20090514	< 0.5 J	**30 EJ**	**410 EJ**	**1.5 J**	**14 J**	**0.96 J**	**3.4 J**	< 0.5 J	< 0.5 J	< 0.5 J	**1.9 J**	NA
MW-42	03/26/2014	Shallow Gaspur	Primary	MW42-0314	< 10	**390**	**4000**	< 10	**75**	< 10	**25**	< 10	< 10	< 10	**24**	< 10
MW-42	07/12/2016	Shallow Gaspur	Primary	MW42-0716	< 2.5	**32**	**1100 J**	**3.7 J**	**40 J**	< 2.5	**18**	< 2.5	< 2.5	< 2.5	**47**	< 2.5
MW-43	05/15/2009	Intermediate Gaspur	Primary	MW-43_20090515	< 0.5 J	**38 DJ**	**11 DJ**	**0.89 J**	**1.2 J**	< 0.5 J	< 0.5 J	**11 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-43	03/26/2014	Intermediate Gaspur	Primary	MW43-0314	< 0.5	**8.6**	**25**	< 0.5	**1.4**	< 0.5	**0.22 J**	**7.6**	< 0.5	< 0.5	**2.8**	< 0.5
MW-43	07/12/2016	Intermediate Gaspur	Primary	MW43-0716	< 0.5	**5.4**	**42**	**3.4**	**3**	**1**	**1**	**44**	< 0.5	< 0.5	**4**	< 0.5
MW-43	12/16/2022	Intermediate Gaspur	Primary	MW-43-121622	< 0.5	**2 J**	**14**	**0.76**	**0.76**	**0.4 J**	**1.5**	**1.4**	< 0.5	< 0.5	**4.8**	**0.023**
MW-43	12/16/2022	Intermediate Gaspur	Duplicate	QC20-121622	< 0.5	**2.6 J**	**19**	**0.97**	**0.82**	< 0.5	**1.8**	**1.3**	< 0.5	< 0.5	**4.6**	**0.023**
MW-44	05/15/2009	Lower Gaspur	Primary	MW-44_20090515	< 0.5 J	**31 DJ**	**38 DJ**	**0.61 J**	**3.8 J**	< 0.5 J	**0.32 J**	**3 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-44	12/07/2011	Lower Gaspur	Primary	MW-44_20111207	< 0.5	**16**	**43**	< 0.5	**5.2**	< 0.5	< 0.5	**3.7**	< 0.5	< 0.5	**4.8**	< 0.5
MW-44	03/26/2014	Lower Gaspur	Primary	MW44-0314	< 0.5	**2.9**	**21**	< 0.5	**1.5**	< 0.5	**0.2 J**	**4**	< 0.5	< 0.5	**2.8**	< 0.5
MW-44	07/12/2016	Lower Gaspur	Primary	MW44-0716	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**8.2**	< 0.5
MW-44	12/16/2022	Lower Gaspur	Primary	MW-44-121622	< 0.5	< 0.5	**6.4**	< 0.5	< 0.5	**1.4**	< 0.5	**0.91**	< 0.5	< 0.5	**2.3**	**0.02**
MW-45	05/15/2009	Intermediate Gaspur	Primary	MW-45_20090515	< 0.5	**2.1**	**19**	< 0.5	**1.3**	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 2	NA
MW-45	03/25/2014	Intermediate Gaspur	Primary	MW45-0314	< 0.5	**2.2**	**39**	< 0.5	**3.7**	< 0.5	**0.21**	**0.84**	< 0.5	< 0.5	**2.1**	< 0.5
MW-45	07/14/2016	Intermediate Gaspur	Primary	MW45-0716	< 0.5	**1.6**	**76**	**0.99**	**5.8**	< 0.5	**0.45 J**	**5.4**	**0.43 J**	< 0.5	**3.5**	< 0.5
MW-45	12/15/2022	Intermediate Gaspur	Primary	MW-45-121522	< 0.5	**2.1**	**39**	**0.76 J**	**5.1**	**4.1**	**0.44 J**	< 0.5	< 0.5	< 0.5	**8.6**	**0.022**
MW-46	05/15/2009	Shallow Gaspur	Primary	MW-46_20090515	< 0.5 J	**56 DJ**	**95 DJ**	**0.38 J**	**5.4 J**	< 0.5 J	< 0.5 J	< 0.5 J	< 0.5 J	< 0.5 J	< 2	NA
MW-46	03/24/2014	Shallow Gaspur	Primary	MW46-0314	< 0.5	**8.6 J**	**47 J**	< 0.5	**3.7 J**	< 0.5	**0.097 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-46	07/19/2016	Shallow Gaspur	Primary	MW46-0716	< 1	**57**	**460**	**2.2**	**37**	< 1	**7.5**	< 1	< 1	< 1	**3.5**	< 1
MW-46	12/19/2022	Shallow Gaspur	Primary	MW-46-121922	< 0.5	**38**	**1600**	**3.9**	**51**	**2.2**	**24**	**0.29 J**	< 0.5	< 0.5	**21**	< 0.005
MW-47	05/15/2009	Intermediate Gaspur	Primary	MW-47_20090515	< 2.5 J	**99 J**	**470 DJ**	< 2.5 J	**14 J**	< 2.5 J	< 2.5 J	< 2.5 J	< 2.5 J	< 2.5 J	< 2	NA
MW-47	03/24/2014	Intermediate Gaspur	Primary	MW47-0314	< 4	**14**	**700**	< 4	**47**	< 4	**1.3 J**	< 4	< 4	< 4	**1.8**	< 4
MW-47	07/19/2016	Intermediate Gaspur	Primary	MW47-0716	< 5	**5.4**	**490**	< 5	**30**	< 5	**6.1**	< 5	< 5	< 5	**6.2**	< 5
MW-47	12/19/2022	Intermediate Gaspur	Primary	MW-47-121922	< 1	**1.4**	**68**	**0.8 J**	**5.4**	**7.1**	**0.84 J**	< 1	< 1	< 1	**3.7**	< 0.005
MW-48	05/15/2009	Lower Gaspur	Primary	MW-48_20090515	< 0.5 J	**25 DJ**	**52 DJ**	**0.3 J**	**3.8 J**	< 0.5 J	< 0.5 J	**1.2 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-48	03/24/2014	Lower Gaspur	Primary	MW48-0314	< 0.5	**29**	**82**	**2.1**	**5.5**	< 0.5	**1.6**	**6.9**	< 0.5	**0.12**	**8.7**	< 0.5
MW-48	07/19/2016	Lower Gaspur	Primary	MW48-0716	< 0.5	**1.3**	**100**	**1.9**	**6.3**	**1.1**	**1.3**	**15**	< 0.5	< 0.5	**13**	< 0.5
MW-48	12/19/2022	Lower Gaspur	Primary	MW-48-121922	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.6 J**	< 0.005
MW-48	12/19/2022	Lower Gaspur	Duplicate	QC25-121922	< 0.5	**0.4 J**	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.5 J**	< 0.005
MW-49	05/15/2009	Shallow Gaspur	Primary	MW-49_20090515	< 0.5	**29 D**	**99 D**	< 0.5	**4.2**	< 0.5	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 2	NA
MW-49	03/26/2014	Shallow Gaspur	Primary	MW49-0314	< 0.5	**2.9**	**41**	< 0.5	**3.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-49	07/15/2016	Shallow Gaspur	Primary	MW49-0716	< 0.5	**1.6**	**49**	< 0.5	**6.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-49	07/15/2016	Shallow Gaspur	Duplicate	MW149-0716	< 0.5	**1.6**	**55**	< 0.5	**5.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-49	12/20/2022	Shallow Gaspur	Primary	MW-49-122022	< 0.5	**2.3**	**260**	**1**	**12**	**0.78**	**2.8**	**2**	< 0.5	< 0.5	**5.7**	< 0.005

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-50	05/15/2009	Intermediate Gaspur	Primary	MW-50_20090515	< 5	**480 D**	**970 D**	< 5	**20**	< 5	< 5	< 5	< 5	< 5	**2.1**	NA
MW-50	06/16/2011	Intermediate Gaspur	Primary	MW-50-06162011	< 5	**7.3**	**540**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**2.1 J**	< 5
MW-50	12/08/2011	Intermediate Gaspur	Primary	MW-50_20111208	< 2.5	**3.4**	**590**	< 2.5	**34**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**1.5**	< 2.5
MW-50	12/12/2012	Intermediate Gaspur	Primary	MW-50-12122012	< 0.5	**2.1**	**500**	**1.4**	**30**	**5.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5
MW-50	12/10/2013	Intermediate Gaspur	Primary	MW-50-121013	< 0.5	**2.7**	**590**	**1.7**	**33**	**2.2**	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-50	12/16/2014	Intermediate Gaspur	Primary	MW-50-121614	< 2.5	< 1	**390**	< 1.5	**27**	**3.8**	< 1	< 1.5	< 1	< 2.5	**1.5 J**	< 1.5
MW-50	12/10/2015	Intermediate Gaspur	Primary	MW-50-121015	< 2.5	< 1	**370**	< 1.5	**27**	**3.3**	< 1	**2.1 J**	< 1	< 2.5	**1.4 J**	< 1.5
MW-50	11/29/2016	Intermediate Gaspur	Primary	MW-50-112916	< 2.5	**1.6 J**	**460**	**2.4 J**	**32**	**5.4**	< 1	< 1.5	< 1	< 2.5	**2.4**	< 1.5
MW-50	12/05/2017	Intermediate Gaspur	Primary	MW-50-120517	< 2.5	**3.4**	**480**	**1.8 J**	**28**	**6.9**	< 1	< 1.5	< 1	< 2.5	**3.2**	< 1.5
MW-50	12/06/2018	Intermediate Gaspur	Primary	MW-50-120618	< 5	**4.9 J**	**460 J**	< 3	**25**	< 5	< 2	< 3	< 2	< 5	**3.4**	< 3
MW-50	12/04/2019	Intermediate Gaspur	Primary	MW-50-120419	< 5	**3.9 J**	**460**	< 4	**23**	**19**	< 2	< 2	< 4	< 3	**5.3**	< 2
MW-50	11/17/2020	Intermediate Gaspur	Primary	MW-50-111720	< 5	< 5	**73**	< 5	**21**	**110**	< 5	< 5	< 5	< 5	**2.5**	< 5
MW-50	11/16/2021	Intermediate Gaspur	Primary	MW-50-111621	< 0.5 J	**2.6 J**	**210 J**	**1.9**	**19**	**9.4**	**2.4**	**1.4**	< 0.5	< 0.5	**6.1**	< 0.5 J
MW-50	12/12/2022	Intermediate Gaspur	Primary	MW-50-121222	< 0.5	**3.1**	**430**	**1.9**	**20**	**16**	**4.5**	**2.6**	< 0.5	< 0.5	**5.7**	< 0.005
MW-50	11/30/2023	Intermediate Gaspur	Primary	MW-50-113023	< 2.5	< 2.5	**200**	< 2.5	**10**	**22 J**	**1.2 J**	**1.4 J**	< 2.5	< 2.5	**5.2**	< 0.005
MW-50	11/30/2023	Intermediate Gaspur	Duplicate	QC-13-113023	< 0.5	**0.54**	**180**	**0.65**	**8.6**	**12 J**	**1.2**	**1.6**	< 0.5	< 0.5	**5.3**	< 0.005
MW-50	11/19/2024	Intermediate Gaspur	Primary	MW-50-111924	< 0.5	**0.44 J**	**230**	**0.85**	**10**	**8.3**	**1.2**	**1.9**	< 0.5	< 0.5	**4.8**	**0.0061**
MW-51	05/15/2009	Lower Gaspur	Primary	MW-51_20090515	< 0.5	**5.7**	**27 D**	< 0.5	**1.8**	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 2	NA
MW-51	06/15/2011	Lower Gaspur	Primary	MW-51-06152011	< 0.5	**12**	**25**	< 0.5	**2.6**	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	**5.1**	< 0.5
MW-51	12/08/2011	Lower Gaspur	Primary	MW-51_20111208	< 0.5	**13**	**30**	< 0.5	**3**	< 0.5	< 0.5	**2.4**	< 0.5	< 0.5	**3.7**	< 0.5
MW-51	12/12/2012	Lower Gaspur	Primary	MW-51-12122012	< 0.5	**7.9**	**73**	**0.77**	**6**	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	**6.4**	< 0.5
MW-51	12/10/2013	Lower Gaspur	Primary	MW-51-121013	< 0.5	**13**	**82**	**1**	**7.8**	< 0.5	< 0.2	**5.8**	**0.6**	< 0.5	**10**	< 0.3
MW-51	12/16/2014	Lower Gaspur	Primary	MW-51-121614	< 0.5	**6.6**	**58**	**1.2**	**5.3**	**0.58**	**0.7**	**9.2**	**0.81**	< 0.5	**16**	< 0.3
MW-51	12/10/2015	Lower Gaspur	Primary	MW-51-121015	< 0.5	**3.8**	**89**	**1.8**	**7.8**	**2.3**	**1.2**	**14**	**0.81**	< 0.5	**13**	< 0.3
MW-51	11/29/2016	Lower Gaspur	Primary	MW-51-112916	< 0.5	**2.1**	**130**	**2.7**	**11**	**1.3**	**1.2**	**21**	**1.1**	< 0.5	**19**	< 0.3
MW-51	12/05/2017	Lower Gaspur	Primary	MW-051-120517	< 0.5	**1.7**	**190**	**2.1**	**10**	**1.5**	**1.2**	**23**	**1**	< 0.5	**12**	< 0.3
MW-51	12/06/2018	Lower Gaspur	Primary	MW-51-120618	< 1	**1.6**	**88**	< 0.6	**7.3**	< 1	< 0.4	**37**	**1.7**	< 1	**8.7**	< 0.6
MW-51	12/04/2019	Lower Gaspur	Primary	MW-51-120419	< 0.5	**2.1**	**100**	**1.8**	**8.7**	**2.9**	**0.84**	**28**	**0.54**	< 0.3	**11**	< 0.2
MW-51	11/17/2020	Lower Gaspur	Primary	MW-51-111720	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	**7.5**	**0.34 J**	**4.7**	< 0.5	< 0.5	**6.4**	< 0.5
MW-51	11/18/2021	Lower Gaspur	Primary	MW-51-111821	< 0.5 J	**0.71 J**	**99**	**3.1**	**8.8**	**8.3**	**1.3**	**20**	< 0.5	< 0.5	**16**	< 0.5 J
MW-51	12/13/2022	Lower Gaspur	Primary	MW-51-121322	< 0.5	**1.4**	**110 J**	**2.6**	**5.2**	**11**	**1.8**	**41**	< 0.5	< 0.5	**14**	**0.045**
MW-51	11/30/2023	Lower Gaspur	Primary	MW-51-113023	< 0.5	< 0.5	**58**	**2.4**	**5.2**	**5.2**	**0.77**	**28**	**0.42 J**	< 0.5	**11**	**0.059 J**
MW-51	11/19/2024	Lower Gaspur	Primary	MW-51-111924	< 0.5	< 0.5 J	**51**	**1.7**	**4.7**	**3.6**	**0.61**	**23**	< 0.5	< 0.5	**9.4**	**0.051**
MW-52	05/15/2009	Shallow Gaspur	Primary	MW-52_20090515	< 0.5	**8.2**	**6.5**	< 0.5	**0.78**	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	< 2	NA
MW-52	03/25/2014	Shallow Gaspur	Primary	MW52-0314	< 0.5	**6.1**	**18**	< 0.5	**5**	< 0.5	< 0.5	< 0.5	**2.4**	< 0.5	< 0.5	< 0.5
MW-52	03/25/2014	Shallow Gaspur	Duplicate	MW952-0314	< 0.5	**5.6**	**16**	< 0.5	**4.2**	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	< 0.5
MW-52	07/19/2016	Shallow Gaspur	Primary	MW52-0716	< 0.5	**5.6**	**15**	< 0.5	**6.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-52	12/13/2022	Shallow Gaspur	Primary	MW-52-121322	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-53	05/15/2009	Lower Gaspur	Primary	MW-53_20090515	< 0.5	**19 J**	**19**	**0.48 J**	**1.2**	< 0.5	**1.2**	**1.8**	< 0.5	< 0.5	**2.6**	NA
MW-53	06/15/2011	Lower Gaspur	Primary	MW-53-06152011	< 0.5	**12**	**17**	< 0.5	**2**	**0.7**	**1**	**1.9**	< 0.5	< 0.5	**8.3**	< 0.5
MW-53	12/13/2011	Lower Gaspur	Primary	MW-53_20111213	< 0.5	**17**	**23**	**0.94**	**2.1**	< 0.5	**3.1**	**2**	< 0.5	< 0.5	**18 J**	< 0.5
MW-53	12/13/2012	Lower Gaspur	Primary	MW-53-12132012	< 0.5	**8.5**	**13**	< 0.5	**1.8**	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-53	12/10/2013	Lower Gaspur	Primary	MW-53-121013	< 0.5	**11**	**36**	**1.4**	**3.3**	< 0.5	**4.2**	**2.1**	< 0.2	< 0.5	**18**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-53	12/15/2014	Lower Gaspur	Primary	MW-53-121514	< 0.5	**3.5**	**22**	**0.6**	**2**	< 0.5	**1.3**	**1**	< 0.2	< 0.5	**11**	< 0.3
MW-53	12/10/2015	Lower Gaspur	Primary	MW-53-121015	< 0.5	**4.9**	**49**	**1.3**	**5.4**	**0.87**	**3**	**2.4**	< 0.2	< 0.5	**11**	< 0.3
MW-53	11/29/2016	Lower Gaspur	Primary	MW-53-112916	< 0.5	**3.7**	**38**	**0.85**	**4.8**	**0.56**	**1.3**	**1.4**	< 0.2	< 0.5	**9.1**	< 0.3
MW-53	11/29/2016	Lower Gaspur	Duplicate	QC02-112916	< 0.5	**3.5**	**36**	**0.83**	**4.9**	**0.53**	**1.1**	**1.4**	< 0.2	< 0.5	**9.2**	< 0.3
MW-53	12/07/2017	Lower Gaspur	Primary	MW-53-120717	< 0.5	**3.5**	**29**	**0.44 J**	**3.9**	< 0.5	**0.58**	**0.83**	< 0.2	< 0.5	**3.1**	< 0.3
MW-53	12/06/2018	Lower Gaspur	Primary	MW-53-120618	< 0.5	**2.5**	**23 J+**	< 0.3	**2.9 J+**	< 0.5	< 0.2	**0.81**	< 0.2	< 0.5	**3.8**	< 0.3
MW-53	12/06/2018	Lower Gaspur	Duplicate	QC19-120618	< 0.5	**1.9**	**19**	< 0.3	**2.2**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**3.7**	< 0.3
MW-53	12/04/2019	Lower Gaspur	Primary	MW-53-120419	< 0.5	**2.3**	**28**	**0.43 J**	**3.4**	< 0.4	**0.76**	**0.87**	< 0.4	< 0.3	**4.8**	< 0.2
MW-53	12/04/2019	Lower Gaspur	Duplicate	QC06-120419	< 0.5	**2.1**	**27**	**0.46 J**	**3.3**	< 0.4	**0.73**	**0.82**	< 0.4	< 0.3	**4.3**	< 0.2
MW-53	11/18/2020	Lower Gaspur	Primary	MW-53-111820	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-53	11/19/2021	Lower Gaspur	Primary	MW-53-111921	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.54 J**	< 0.5 J
MW-53	12/13/2022	Lower Gaspur	Primary	MW-53-121322	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.005
MW-53	11/28/2023	Lower Gaspur	Primary	MW-53-112823	< 0.5	< 0.5	**1**	< 0.5	**0.49 J**	**4**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	**0.012**
MW-53	11/19/2024	Lower Gaspur	Primary	MW-53-111924	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-54	05/15/2009	Lower Gaspur	Primary	MW-54_20090515	< 0.5	**15 D**	**10**	**0.57**	**3.5**	< 0.5	**0.45 J**	**4**	< 0.5	< 0.5	< 2	NA
MW-54	06/15/2011	Lower Gaspur	Primary	MW-54-06152011	< 0.5	**24**	**15**	**0.52**	**4.4**	< 0.5	**1.1**	**2.9**	< 0.5	< 0.5	**10**	< 0.5
MW-54	12/13/2011	Lower Gaspur	Primary	MW-54_20111213	< 0.5	**62**	**19**	**1**	**5.5**	< 0.5	**1.6**	**3.6**	< 0.5	< 0.5	**13**	< 0.5
MW-54	12/13/2012	Lower Gaspur	Primary	MW-54-12132012	< 0.5	**6.1**	**9.4**	< 0.5	**1.3**	**0.51**	**0.55**	**2.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-54	12/10/2013	Lower Gaspur	Primary	MW-54-121013	< 0.5	**3.8**	**58**	**1.5**	**8.2**	< 0.5	**2**	**1.8**	< 0.2	< 0.5	**10**	< 0.3
MW-54	12/15/2014	Lower Gaspur	Primary	MW-54-121514	< 0.5	**3**	**44**	**1.3**	**6**	< 0.5	**2**	**1.1**	< 0.2	< 0.5	**16**	< 0.3
MW-54	12/10/2015	Lower Gaspur	Primary	MW-54-121015	< 0.5	**3.2**	**46**	**1.9**	**9.8**	**1.1**	**3.4**	**1.6**	< 0.2	< 0.5	**15**	< 0.3
MW-54	12/01/2016	Lower Gaspur	Primary	MW-54-120116	< 0.5	**2.3**	**57**	**1.9**	**9**	**1.1**	**2.9**	**1.5**	< 0.2	< 0.5	**18**	< 0.3
MW-54	12/07/2017	Lower Gaspur	Primary	MW-54-120717	< 0.5	**1.8**	**63**	**1.3**	**7.2**	**0.96**	**3.1**	**1.3**	< 0.2	< 0.5	**13**	< 0.3
MW-54	12/06/2018	Lower Gaspur	Primary	MW-54-120618	< 0.5	**1.5**	**55**	< 0.3	**6.4**	< 0.5	**2.2**	**1.2**	< 0.2	< 0.5	**12**	< 0.3
MW-54	12/04/2019	Lower Gaspur	Primary	MW-54-120419	< 0.5	**0.93**	**59**	**1.2**	**6.6**	**1.8**	**2**	**1.4**	< 0.4	< 0.3	**11**	< 0.2
MW-54	11/17/2020	Lower Gaspur	Primary	MW-54-111720	< 0.5	< 0.5	**0.68**	< 0.5	**0.81**	**6.3**	**0.32 J**	< 0.5	< 0.5	< 0.5	**1.5 J**	< 0.5
MW-54	11/19/2021	Lower Gaspur	Primary	MW-54-111921	< 0.5 J	< 0.5 J	**36**	**0.86**	**5.2**	< 0.5	**1.4**	< 0.79	< 0.5	< 0.5	**6.9**	< 0.5 J
MW-54	12/13/2022	Lower Gaspur	Primary	MW-54-121322	< 0.5	< 0.5	**26**	< 0.5	**1.6**	**2**	**0.79**	< 0.5	< 0.5	< 0.5	**6.4**	**0.097**
MW-54	11/28/2023	Lower Gaspur	Primary	MW-54-112823	< 0.5	< 0.5	**36**	**0.69**	**4.2**	**1.1**	**1.2**	**1.1**	< 0.5	< 0.5	**7.7**	**0.071**
MW-54	11/19/2024	Lower Gaspur	Primary	MW-54-111924	< 0.5	< 0.5 J	**3.3**	< 0.5	**2.7**	**15**	**0.7**	**0.57**	< 0.5	< 0.5	**4.6**	**0.13**
MW-55	05/15/2009	Exposition	Primary	MW-55_20090515	< 0.5	**2.5**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-55	06/14/2011	Exposition	Primary	MW-55-06142011	< 0.5	**8.4**	**13**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-55	12/06/2011	Exposition	Primary	MW-55_20111206	< 0.5	**5.8**	**24**	< 0.5	**1.5**	< 0.5	< 0.5	**0.71**	< 0.5	< 0.5	**1.9**	< 0.5
MW-55	06/08/2012	Exposition	Primary	MW-55-06082012	< 0.5	**5.8**	**23**	< 0.5	**1.6**	< 0.5	< 0.5	**0.88**	< 0.5	< 0.5	**1.9**	< 0.5
MW-55	11/26/2012	Exposition	Primary	MW-55-112612-01	< 0.5	**1**	**24**	< 0.5	**1.7**	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	**3.1**	< 0.5
MW-55	11/26/2012	Exposition	Primary	MW-55-112612-02	< 0.5	**1.4**	**25**	< 0.5	**1.7**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-55	11/26/2012	Exposition	Primary	MW-55-112612-03	< 0.5	**1.6**	**27**	< 0.5	**1.9**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.7**	< 0.5
MW-55	11/26/2012	Exposition	Primary	MW-55-112612-04	< 0.5	**1.5**	**26**	< 0.5	**1.8**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-55	12/11/2012	Exposition	Primary	MW-55-12112012	< 0.5	**2**	**21**	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.4**	< 0.5
MW-55	06/20/2013	Exposition	Primary	MW-55-062013	< 0.5	< 0.2	**6.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.4**	< 0.3
MW-55	06/20/2013	Exposition	Duplicate	DUP4-062013	< 0.5	< 0.2	**5.7**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.5 J**	< 0.3
MW-55	12/09/2013	Exposition	Primary	MW-55-120913	< 0.5	**1.6**	**52**	**0.58**	**4.4**	< 0.5	< 0.2	**1.5**	< 0.2	< 0.5	**4**	< 0.3
MW-55	12/09/2013	Exposition	Duplicate	DUP1-120913	< 0.5	**1.6**	**39**	**0.52**	**3.2**	< 0.5	< 0.2	**1.3**	< 0.2	< 0.5	**3.6**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-55	06/10/2014	Exposition	Primary	MW-55-061014	< 0.5	**1.6**	**31**	< 0.3	**2.8**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-55	06/10/2014	Exposition	Duplicate	DUP02-061014	< 0.5	**1.6**	**29**	< 0.3	**2.5**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**4.9**	< 0.3
MW-55	12/18/2014	Exposition	Primary	MW-55-121814	< 0.5	**2.2**	**32**	**0.34 J**	**3.2**	< 0.5	< 0.2	**1.1**	**0.21 J**	< 0.5	**4.6**	< 0.3
MW-55	06/08/2015	Exposition	Primary	MW-55-060815	< 0.5	**2**	**30**	**0.41 J**	**3.7**	**0.86**	**0.32 J**	**1.8**	< 0.2	< 0.5	**6**	< 0.3
MW-55	06/08/2015	Exposition	Duplicate	DUP01-060815	< 0.5	**2**	**31**	**0.4 J**	**3.5**	**1.1**	< 0.2	**2**	< 0.2	< 0.5	**5.4**	< 0.3
MW-55	12/10/2015	Exposition	Primary	MW-55-121015	< 0.5	**1.1**	**49**	**0.44 J**	**4.1**	< 0.5	**0.37 J**	**1.7**	**0.27 J**	< 0.5	**3.1**	< 0.3
MW-55	08/08/2016	Exposition	Primary	MW-55-080816	< 0.5	**0.98**	**54**	**0.59**	**4.5**	**5.8**	**0.58**	**1.8**	< 0.2	< 0.5	**5.9**	< 0.3
MW-55	11/28/2016	Exposition	Primary	MW-55-112816	< 0.5	**1.4**	**73**	**0.95**	**5.4**	< 0.5	**0.63**	**1.6**	**0.43 J**	< 0.5	**6.7**	< 0.3
MW-55	11/28/2016	Exposition	Duplicate	QC02-112816	< 0.5	**1.5**	**79**	**0.94**	**5.4**	**0.51**	**0.61**	**1.9**	**0.7 J**	< 0.5	**6.1**	< 0.3
MW-55	06/09/2017	Exposition	Primary	MW-55-060917	< 0.5	**1.5**	**67**	**0.53**	**5.3**	**0.62**	**0.64**	**1.3**	**0.41 J**	< 0.5	**6.9**	< 0.3
MW-55	12/05/2017	Exposition	Primary	MW-55-120517	< 0.5	< 0.2	**4.7**	< 0.3	**0.54**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.2 J**	< 0.3
MW-55	06/08/2018	Exposition	Primary	MW-55-060818	< 0.5	**0.9**	**54**	**0.59**	**5.5**	**40**	**0.95**	**1.7**	**0.42 J**	< 0.5	**4.4**	< 0.3
MW-55	12/06/2018	Exposition	Primary	MW-55-120618	< 0.5	**1.6**	**33**	**0.38 J**	**4.8**	**41**	**0.68**	**1.6**	**0.43 J**	< 0.5	**4.9**	< 0.3
MW-55	06/14/2019	Exposition	Primary	MW-55-061419	< 0.5	**1.4**	**78**	**0.62**	**4.7**	**3.4**	< 0.2	**1.4**	< 0.4	< 0.3	**4.1**	< 0.2
MW-55	12/05/2019	Exposition	Primary	MW-55-120519	< 0.5	**1.3**	**56**	**0.48 J**	**4**	**17**	**0.41 J**	**1.4**	< 0.4	< 0.3	**4.6**	< 0.2
MW-55	06/09/2020	Exposition	Primary	MW-55-060920	< 0.5	**0.63**	**30**	< 0.5	**2.6**	**12**	< 0.5	**0.99 J**	< 0.5	< 0.5	**3.2**	< 0.5
MW-55	11/17/2020	Exposition	Primary	MW-55-111720	< 0.5	< 0.5	**2.6**	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.64 J**	< 0.5
MW-55	11/17/2020	Exposition	Duplicate	QC04-111720	< 0.5	< 0.5	**2.6**	< 0.5	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.57 J**	< 0.5
MW-55	01/13/2021	Exposition	Primary	MW-55-011321	< 0.5	**0.97**	**48**	**0.43 J**	**2.8**	**4.8**	**0.3 J**	**1**	< 0.5	< 0.5	**1.9 J**	< 0.5
MW-55	05/18/2021	Exposition	Primary	MW-55-051821	< 0.5	**1.2**	**53**	< 0.5	**4**	**5.8**	**0.47 J**	**1.8**	< 0.5	< 0.5	**3.7 J**	< 0.5
MW-55	11/18/2021	Exposition	Primary	MW-55-111821	< 0.5 J	**0.78 J**	**61**	**0.62**	**4.7**	**4.1**	**0.53**	**1.3**	< 0.5	< 0.5	**3.8**	< 0.5 J
MW-55	06/23/2022	Exposition	Primary	MW-55-062322	< 0.5	< 0.5	**0.86**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	12/21/2022	Exposition	Primary	MW-55R-122122	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.54	< 0.5	< 2	< 0.005
MW-55R	12/21/2022	Exposition	Duplicate	QC34-122122	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.52	< 0.5	< 2	< 0.005
MW-55R	02/24/2023	Exposition	Primary	MW-55R-022423	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	< 0.5	< 2	< 0.005
MW-55R	05/17/2023	Exposition	Primary	MW-55R-051723	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	09/08/2023	Exposition	Primary	MW-55R-090823	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	09/08/2023	Exposition	Duplicate	QC02-090823	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	11/30/2023	Exposition	Primary	MW-55R-113023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	11/30/2023	Exposition	Duplicate	QC14-113023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-55R	05/07/2024	Exposition	Primary	MW-55R-050724	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-55R	11/19/2024	Exposition	Primary	MW-55R-111924	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-55R	11/19/2024	Exposition	Duplicate	QC03-111924	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-56	05/17/2009	Shallow Gaspur	Primary	MW-56_20090517	< 2.5	**3900 D**	**290 D**	**2.2 J**	**11**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2	NA
MW-56	03/26/2014	Shallow Gaspur	Primary	MW56-0314	< 2	**290**	**450**	< 2	**15**	< 2	< 2	< 2	< 2	< 2	< 0.5	< 2
MW-56	07/18/2016	Shallow Gaspur	Primary	MW56-0716	< 1	**74**	**260**	< 1	**15**	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1
MW-56	12/13/2022	Shallow Gaspur	Primary	MW-56-121322	< 0.5	**30**	**370**	**1.7**	**17**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-57A	09/27/2011	Shallow Gaspur	Primary	MW-57A-09272011	< 0.5	**10**	**17**	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	**9.9**	< 0.5	< 0.95	< 0.5
MW-57A	12/07/2011	Shallow Gaspur	Primary	MW-57A_20111207	< 0.5	**8.7**	**18**	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	**5.4**	< 0.5	**1.7**	< 0.5
MW-57A	03/27/2012	Shallow Gaspur	Primary	MW-57A-03272012	< 0.5	**11**	**16**	< 0.5	**0.91**	< 0.5	< 0.5	< 0.5	**7.5**	< 0.5	**1.2 J**	< 0.5
MW-57A	06/13/2012	Shallow Gaspur	Primary	MW57A-061312	< 0.5	**11**	**17**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**8.9**	< 0.5	**1.3**	< 0.5
MW-57A	12/13/2012	Shallow Gaspur	Primary	MW-57A-12132012	< 0.5	**4.5**	**20**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**4.4**	< 0.5	< 0.95	< 0.5
MW-57A	06/20/2013	Shallow Gaspur	Primary	MW-57A-062013	< 0.5	**3.4**	**16**	**0.5**	**1.3**	< 0.5	< 0.2	< 0.3	**3.2**	< 0.5	**1.2 J**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-57A	12/12/2013	Shallow Gaspur	Primary	MW-57A-121213	< 0.5	**4.4**	**24**	**0.46 J**	**1.1**	**1.1**	< 0.2	< 0.3	**35**	< 0.5	**4.6**	< 0.3
MW-57A	06/12/2014	Shallow Gaspur	Primary	MW-57A-061214	< 0.5	**0.7**	**16**	< 0.3	**0.58**	**1**	< 0.2	**0.5**	**47**	< 0.5	**17**	< 0.3
MW-57A	12/16/2014	Shallow Gaspur	Primary	MW-57A-121614	< 0.5	**0.65**	**12**	< 0.3	**0.77**	**0.61**	< 0.2	**0.35 J**	**27**	< 0.5	**12**	< 0.3
MW-57A	06/10/2015	Shallow Gaspur	Primary	MW-57A-061015	< 0.5	**1.1**	**16**	**0.34 J**	**1.2**	< 0.5	< 0.2	< 0.3	**5.6**	< 0.5	**2.2**	< 0.3
MW-57A	12/09/2015	Shallow Gaspur	Primary	MW-57A-120915	< 0.5	< 0.2	**8.6**	< 0.3	**0.53**	**1.2**	**0.34 J**	**2**	**35**	< 0.5	**9.4**	< 0.3
MW-57A	06/09/2016	Shallow Gaspur	Primary	MW-57A-060916	< 0.5	**0.4 J**	**7.6**	< 0.3	**0.48 J**	**0.5**	< 0.2	**1.2**	**21**	< 0.5	**3.9**	< 0.3
MW-57A	12/02/2016	Shallow Gaspur	Primary	MW-57A-120216	< 0.5	< 0.2	**6.6**	< 0.3	**0.44 J**	**0.57**	**0.39 J**	**1.4**	**32**	< 0.5	**5.8**	< 0.3
MW-57A	06/08/2017	Shallow Gaspur	Primary	MW-57A-060817	< 0.5	**0.8**	**7.4**	< 0.3	**0.63**	< 0.5	< 0.2	< 0.3	**1.5**	< 0.5	< 1	< 0.3
MW-57A	12/07/2017	Shallow Gaspur	Primary	MW-57A-120717	< 0.5	< 0.2	**6.5**	< 0.3	**0.52**	< 0.5	**0.6**	**1.9**	**33**	< 0.5	**4.2**	< 0.3
MW-57A	06/08/2018	Shallow Gaspur	Primary	MW-57A-060818	< 0.5	< 0.2	**2.9**	< 0.3	< 0.4	< 0.5	**0.89**	**2.8**	**50**	< 0.5	**3.8**	< 0.3
MW-57A	12/04/2018	Shallow Gaspur	Primary	MW-57A-120418	< 1	< 0.4	**1.8**	< 0.6	< 0.8	< 1	**0.86 J**	**3.3**	**48**	< 1	**7**	< 0.6
MW-57A	06/12/2019	Shallow Gaspur	Primary	MW-57A-061219	< 0.5	< 0.3	**2.5**	< 0.4	< 0.3	**1.1**	< 0.2	**3.6**	**48**	< 0.3	**9.1**	< 0.2
MW-57A	12/06/2019	Shallow Gaspur	Primary	MW-57A-120619	< 0.5	< 0.3	**2.5**	< 0.4	< 0.3	< 0.4	**0.96**	**4.5**	**52**	< 0.3	**11**	< 0.2
MW-57A	06/09/2020	Shallow Gaspur	Primary	MW-57A-060920	< 0.5	< 0.5	**3.4**	< 0.5	< 0.5	**1.2**	**0.64**	< 0.5	**39**	< 0.5	**7.2**	< 0.5
MW-57A	11/18/2020	Shallow Gaspur	Primary	MW-57A-111820	< 0.5	< 0.5	**4.3**	< 0.5	< 0.5	**2.1**	**0.94**	**1.7**	**43**	< 0.5	**3.8**	< 0.5
MW-57A	05/18/2021	Shallow Gaspur	Primary	MW-57A-051821	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	**2.5**	**1.2**	**2.8**	**45**	< 0.5	**5.1**	< 0.5
MW-57A	11/17/2021	Shallow Gaspur	Primary	MW-57A-111721	< 0.5	< 0.5 J	**1.2**	< 0.5	< 0.5	**3.1**	**1.1**	**2.2 J+**	**44**	< 0.5	**3.3**	< 0.5
MW-57A	06/23/2022	Shallow Gaspur	Primary	MW-57A-062322	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	**2.8**	**1.7**	**0.96**	**63**	< 0.5	**0.95 J**	< 0.005
MW-57A	12/15/2022	Shallow Gaspur	Primary	MW-57A-121522	< 0.5	< 0.5	**0.36 J**	< 0.5	< 0.5	**2.4**	**0.98**	< 0.5	**52**	< 0.5	**1 J**	< 0.005
MW-57A	05/18/2023	Shallow Gaspur	Primary	MW-57A-051823	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	**0.9**	**1.1**	**0.89**	**50**	< 0.5	**1 J**	< 0.005
MW-57A	11/30/2023	Shallow Gaspur	Primary	MW-57A-113023	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	**1.2**	**0.75**	**0.78**	**25**	< 0.5	< 2	< 0.005
MW-57A	05/09/2024	Shallow Gaspur	Primary	MW-57A-050924	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	**0.7**	**0.51**	**0.59**	**21**	< 0.5	**1**	< 0.005
MW-57A	05/09/2024	Shallow Gaspur	Duplicate	QC21-050924	< 0.5	< 0.5	**0.41 J**	< 0.5	< 0.5	**0.85**	**0.56**	**0.6**	**23**	< 0.5	**0.8 J**	< 0.005
MW-57A	11/22/2024	Shallow Gaspur	Primary	MW-57A-112224	< 0.5	< 0.5 J	**0.55**	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	**5.4**	< 0.5	< 1	< 0.005
MW-57B	09/27/2011	Intermediate Gaspur	Primary	MW-57B-09272011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 J	< 0.5	**1.8**	**1.8**	< 0.5	< 0.95	< 0.5
MW-57B	12/08/2011	Intermediate Gaspur	Primary	MW-57B_20111208	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.4 J**	**2**	< 0.5	**2**	< 0.5
MW-57B	03/26/2012	Intermediate Gaspur	Primary	MW-57B-03262012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	**1.5**	< 0.5	**1.7 J**	< 0.5
MW-57B	06/13/2012	Intermediate Gaspur	Primary	MW57B-061312	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	**1.7**	< 0.5	**2**	< 0.5
MW-57B	12/13/2012	Intermediate Gaspur	Primary	MW-57B-12132012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.9**	**0.98**	< 0.5	**1.8**	< 0.5
MW-57B	06/20/2013	Intermediate Gaspur	Primary	MW-57B-062013	< 0.5	< 0.2	**0.32 J**	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	**0.71**	< 0.5	**1.8 J**	< 0.3
MW-57B	12/12/2013	Intermediate Gaspur	Primary	MW-57B-121213	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	**0.7**	< 0.5	**2.1**	< 0.3
MW-57B	06/12/2014	Intermediate Gaspur	Primary	MW-57B-061214	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	**0.25 J**	< 0.5	**1.3 J**	< 0.3
MW-57B	12/16/2014	Intermediate Gaspur	Primary	MW-57B-121614	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	**0.21 J**	< 0.5	< 1	< 0.3
MW-57B	06/10/2015	Intermediate Gaspur	Primary	MW-57B-061015	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/11/2015	Intermediate Gaspur	Primary	MW-57B-121115	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	06/09/2016	Intermediate Gaspur	Primary	MW-57B-060916	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3.5**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/02/2016	Intermediate Gaspur	Primary	MW-57B-120216	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	06/07/2017	Intermediate Gaspur	Primary	MW-57B-060717	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/07/2017	Intermediate Gaspur	Primary	MW-57B-120717	< 0.5	< 0.2	**0.39 J**	< 0.3	< 0.4	< 0.5	< 0.2	**3.3**	< 0.2	< 0.5	**1.1 J**	< 0.3
MW-57B	06/08/2018	Intermediate Gaspur	Primary	MW-57B-060818	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3.3**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/04/2018	Intermediate Gaspur	Primary	MW-57B-120418	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3.2**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	06/12/2019	Intermediate Gaspur	Primary	MW-57B-061219	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**2.6**	< 0.4	< 0.3	< 1	< 0.2
MW-57B	12/06/2019	Intermediate Gaspur	Primary	MW-57B-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**3.1**	< 0.4	< 0.3	< 1	< 0.2

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-57B	06/09/2020	Intermediate Gaspur	Primary	MW-57B-060920	< 0.5	< 0.5	**0.36 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-57B	06/09/2020	Intermediate Gaspur	Duplicate	QC03-060920	< 0.5	< 0.5	**0.4 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-57B	11/18/2020	Intermediate Gaspur	Primary	MW-57B-111820	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-57B	11/17/2021	Intermediate Gaspur	Primary	MW-57B-111721	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2 J+**	< 0.5	< 0.5	**0.6 J**	< 0.5
MW-57B	11/17/2021	Intermediate Gaspur	Duplicate	QC16-111721	< 0.5 J	< 0.5 J	**0.34 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.1 J+**	< 0.5	< 0.5	< 2	< 0.5 J
MW-57B	06/23/2022	Intermediate Gaspur	Primary	MW-57B-062322	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-57B	12/15/2022	Intermediate Gaspur	Primary	MW-57B-121522	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-57B	05/18/2023	Intermediate Gaspur	Primary	MW-57B-051823	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.5**	**0.4 J**	< 0.5	< 2	**0.014**
MW-57B	11/30/2023	Intermediate Gaspur	Primary	MW-57B-113023	< 0.5	< 0.5	**0.44 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2**	< 0.5	< 0.5	< 2	**0.015 J**
MW-57B	05/09/2024	Intermediate Gaspur	Primary	MW-57B-050924	< 0.5	< 0.5	**0.65**	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	**0.8 J**	**0.015**
MW-57B	05/09/2024	Intermediate Gaspur	Duplicate	QC20-050924	< 0.5	< 0.5	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2**	< 0.5	< 0.5	**1.2**	**0.015**
MW-57B	11/22/2024	Intermediate Gaspur	Primary	MW-57B-112224	< 0.5	< 0.5	**0.95**	< 0.5	< 0.5	< 0.5 J	< 0.5	**2.3**	< 0.5	< 0.5	< 1	**0.023**
MW-58	09/28/2011	Shallow Gaspur	Primary	MW-58-09282011	< 0.5	**8.2**	**13**	< 0.5	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	< 0.5
MW-58	12/08/2011	Shallow Gaspur	Primary	MW-58_20111208	< 0.5	**14**	**22**	**0.71**	**3.7**	< 0.5	< 0.5	< 0.5	< 0.5	**0.64**	**2.4**	< 0.5
MW-58	03/27/2012	Shallow Gaspur	Primary	MW-58-03272012	< 0.5	**12**	**23**	**0.66**	**3.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2 J**	< 0.5
MW-58	03/27/2012	Shallow Gaspur	Duplicate	DUP2-03272012	< 0.5	**13**	**21**	**0.77**	**3.6**	< 0.5	< 0.5	< 0.5	< 0.5	**0.61**	**2.2 J**	< 0.5
MW-58	06/13/2012	Shallow Gaspur	Primary	MW58-061312	< 0.5	**15**	**28**	**0.7**	**4.7**	< 0.5	< 0.5	< 0.5	< 0.5	**0.8**	**2.1**	< 0.5
MW-58	12/13/2012	Shallow Gaspur	Primary	MW-58-12132012	< 0.5	**8.6**	**45**	**0.82**	**5.3**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	**1.8**	< 0.5
MW-58	06/21/2013	Shallow Gaspur	Primary	MW-58-062113	< 0.5	**3.6**	**26**	**1.6**	**3.8**	< 0.5	**0.32 J**	< 0.3	**0.62**	**0.89**	**2.7**	< 0.3
MW-58	06/21/2013	Shallow Gaspur	Duplicate	DUP5-062113	< 0.5	**3.4**	**25**	**1.5**	**3.7**	< 0.5	**0.26 J**	< 0.3	**0.6**	**0.73**	**2.8**	< 0.3
MW-58	12/12/2013	Shallow Gaspur	Primary	MW-58-121213	< 0.5	**7.2**	**28**	**2.6**	**4**	< 0.2	< 0.3	**0.37 J**	< 0.5	**8.1**	< 0.3
MW-58	06/12/2014	Shallow Gaspur	Primary	MW-58-061214	< 0.5	**2.7**	**13**	**7.5**	**1.9**	**0.5**	**0.74**	< 0.3	**1**	< 0.5	**21**	< 0.3
MW-58	06/12/2014	Shallow Gaspur	Duplicate	DUP01-061214	< 0.5	**2.7**	**13**	**7.5**	**1.8**	< 0.5	**0.74**	< 0.3	**1**	< 0.5	**22**	< 0.3
MW-58	12/18/2014	Shallow Gaspur	Primary	MW-58-121814	< 0.5	**2.1**	**18**	**3**	**2.4**	< 0.5	**0.27 J**	< 0.3	**0.64**	< 0.5	**11**	< 0.3
MW-58	06/10/2015	Shallow Gaspur	Primary	MW-58-061015	< 0.5	**2.9**	**29**	**1**	**4.1**	< 0.5	< 0.2	< 0.3	< 0.2	**1.4**	**2.3**	< 0.3
MW-58	12/09/2015	Shallow Gaspur	Primary	MW-58-120915	< 0.5	**0.76**	**21**	**3.6**	**2.5**	< 0.5	**0.4 J**	< 0.3	**1.5**	**0.74**	**6.3**	< 0.3
MW-58	06/09/2016	Shallow Gaspur	Primary	MW-58-060916	< 0.5	**0.56**	**23**	**2.1**	**2.7**	< 0.5	< 0.2	< 0.3	**3**	< 0.5	**1.3 J**	< 0.3
MW-58	12/02/2016	Shallow Gaspur	Primary	MW-58-120216	< 0.5	**0.37 J**	**20**	**1.8**	**2.2**	< 0.5	< 0.2	< 0.3	**4.1**	< 0.5	**1.7 J**	< 0.3
MW-58	12/02/2016	Shallow Gaspur	Duplicate	QC01-120216	< 0.5	**0.41 J**	**21**	**1.8**	**2.4**	< 0.5	< 0.2	< 0.3	**4.7**	< 0.5	**1.8 J**	< 0.3
MW-58	06/09/2017	Shallow Gaspur	Primary	MW-58-060917	< 0.5	**0.82**	**22**	**0.65**	**3.8**	< 0.5	< 0.2	< 0.3	**1.7**	< 0.5	< 1	< 0.3
MW-58	12/07/2017	Shallow Gaspur	Primary	MW-58-120717	< 0.5	< 0.2	**20**	**0.71**	**2.9**	< 0.5	< 0.2	< 0.3	**1.7**	< 0.5	**1.3 J**	< 0.3
MW-58	12/04/2018	Shallow Gaspur	Primary	MW-58-120418	< 0.5	**1.4**	**9.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**2.6**	< 0.5	< 1	< 0.3
MW-58	06/12/2019	Shallow Gaspur	Primary	MW-58-061219	< 0.5	< 0.3	**3.4**	**0.4 J**	< 0.3	< 0.4	< 0.2	< 0.2	**5.7**	< 0.3	**1.7 J**	< 0.2
MW-58	12/06/2019	Shallow Gaspur	Primary	MW-58-120619	< 0.5	< 0.3	**2.9**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	**4**	< 0.3	**1.1 J**	< 0.2
MW-58	06/12/2020	Shallow Gaspur	Primary	MW-58-061220	< 0.5	< 0.5	**3.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.4**	< 0.5	**1.3 J**	< 0.5
MW-58	11/18/2020	Shallow Gaspur	Primary	MW-58-111820	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4**	< 0.5	**1.4 J**	< 0.5
MW-58	05/18/2021	Shallow Gaspur	Primary	MW-58-051821	< 0.5	< 0.5	**4.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5	**12**	< 0.5
MW-58	11/17/2021	Shallow Gaspur	Primary	MW-58-111721	< 0.5	< 0.5 J	**5.1**	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	**6.4**	< 0.5
MW-58	06/23/2022	Shallow Gaspur	Primary	MW-58-062322	< 0.5	< 0.5	**3.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.005
MW-58	05/18/2023	Shallow Gaspur	Primary	MW-58-051823	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
MW-58	11/30/2023	Shallow Gaspur	Primary	MW-58-113023	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.005
MW-58	05/07/2024	Shallow Gaspur	Primary	MW-58-050724	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.3 J**	< 0.005
MW-58	11/22/2024	Shallow Gaspur	Primary	MW-58-112224	< 0.5	< 0.5 J	**5.4**	**0.45 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9**	< 0.005

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-59A	06/13/2011	Shallow Gaspur	Primary	MW-59A-06132011	< 5	**190**	**660**	**30**	**29**	**7.7**	**58**	< 5	< 5	< 5	**30**	< 5
MW-59A	09/28/2011	Shallow Gaspur	Primary	MW-59A-09282011	< 5	**200**	**740**	**29**	**33**	< 5 J	**61**	< 5	< 5	< 5	**38 J**	< 5
MW-59A	09/28/2011	Shallow Gaspur	Duplicate	DUP-09282011	< 0.5	**250**	**810**	**34**	**36**	**6 J**	**69**	**1.8**	**0.94**	**2.5**	**20 J**	**2**
MW-59A	12/09/2011	Shallow Gaspur	Primary	MW-59A_20111209	< 5	**140**	**620**	**15**	**21**	< 5	**52**	< 5	< 5	< 5	**23 J**	< 5
MW-59A	03/28/2012	Shallow Gaspur	Primary	MW-59A-03282012	< 5	**140**	**620**	**18**	**24**	< 5	**48**	< 5	< 5	< 5	**17**	< 5
MW-59A	06/13/2012	Shallow Gaspur	Primary	MW-59A-06132012	< 5	**98**	**840**	**22**	**28**	**6.7**	**63**	< 5	< 5	< 5	**37**	< 5
MW-59A	12/14/2012	Shallow Gaspur	Primary	MW-59A-12142012	< 2.5	**66**	**450**	**9.9**	**18**	**9.7**	**37**	< 2.5	< 2.5	< 2.5	**21 J**	< 2.5
MW-59A	06/21/2013	Shallow Gaspur	Primary	MW-59A-062113	< 2.5	**75**	**430**	**13**	**19**	**6**	**39**	< 1.5	< 1	< 2.5	**44**	< 1.5
MW-59A	12/13/2013	Shallow Gaspur	Primary	MW-59A-121313	< 0.5	**92**	**220**	**8.8**	**13**	**7.5**	**23**	< 0.3	< 0.2	< 0.5	**41**	< 0.3
MW-59A	06/12/2014	Shallow Gaspur	Primary	MW-59A-061214	< 1	**69**	**320**	**6.5**	**13**	**5.4**	**20**	< 0.6	**0.52 J**	< 1	**41**	< 0.6
MW-59A	12/18/2014	Shallow Gaspur	Primary	MW-59A-121814	< 1	**91**	**400**	**9.5**	**16**	**5.1**	**39**	**1.4**	**0.8 J**	< 1	**62**	**3.4**
MW-59A	06/08/2015	Shallow Gaspur	Primary	MW-59A-060915	< 2.5	**22**	**450**	**11**	**23**	**25**	**55**	**2.3 J**	< 1	< 2.5	**68**	< 1.5
MW-59A	12/10/2015	Shallow Gaspur	Primary	MW-59A-121015	< 2.5	**26**	**330**	**6.3**	**13**	**36**	**36**	< 1.5	< 1	< 2.5	**69**	< 1.5
MW-59A	06/07/2016	Shallow Gaspur	Primary	MW-59A-060716	< 2.5	**29**	**300**	**8.7**	**14**	**11**	**32**	< 1.5	< 1	< 2.5	**59**	< 1.5
MW-59A	12/02/2016	Shallow Gaspur	Primary	MW-59A-120216	< 2.5	**5.4**	**91**	**1.8 J**	**4.6**	**6**	**9.8**	< 1.5	< 1	< 2.5	**34**	< 1.5
MW-59B	06/13/2011	Intermediate Gaspur	Primary	MW-59B-06132011	< 0.5	**0.57**	**0.88**	**0.62**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.2**	< 0.5
MW-59B	09/27/2011	Intermediate Gaspur	Primary	MW-59B-09272011	< 0.5	**1.3**	**5.8**	**0.6**	< 0.5	**1.9**	**2.3**	< 0.5	< 0.5	< 0.5	**7.8**	< 0.5
MW-59B	12/06/2011	Intermediate Gaspur	Primary	MW-59B_20111206	< 0.5	**0.54**	**1.1**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**12**	< 0.5
MW-59B	03/27/2012	Intermediate Gaspur	Primary	MW-59B-03272012	< 0.5	**0.63**	**2.2**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13 J**	< 0.5
MW-59B	06/13/2012	Intermediate Gaspur	Primary	MW-59B-06132012	< 0.5	**0.78**	**2.9**	**2.7**	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.5	**15**	< 0.5
MW-59B	12/14/2012	Intermediate Gaspur	Primary	MW-59B-12142012	< 0.5	< 0.5	< 0.5	**0.91**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.6**	< 0.5
MW-59B	06/21/2013	Intermediate Gaspur	Primary	MW-59B-062113	< 0.5	**0.28 J**	**0.77**	**2.6**	< 0.4	< 0.5	**0.38 J**	< 0.3	< 0.2	< 0.5	**14**	< 0.3
MW-59B	12/13/2013	Intermediate Gaspur	Primary	MW-59B-121313	< 0.5	< 0.2	**2.1**	**1.1**	< 0.4	< 0.5	**0.71**	< 0.3	< 0.2	< 0.5	**4.8**	< 0.3
MW-59B	06/12/2014	Intermediate Gaspur	Primary	MW-59B-061214	< 0.5	**0.43 J**	**1.7**	**0.94**	< 0.4	< 0.5	**0.88**	**0.32 J**	< 0.2	< 0.5	**5.8**	< 0.3
MW-59B	12/18/2014	Intermediate Gaspur	Primary	MW-59B-121814	< 0.5	**0.57**	**1.5**	**1.3**	< 0.4	< 0.5	**0.78**	**0.38 J**	< 0.2	< 0.5	**7.1**	< 0.3
MW-59B	06/09/2015	Intermediate Gaspur	Primary	MW-59B-060915	< 0.5	**1.1**	**3**	**1.4**	< 0.4	< 0.5	**1.1**	**1.1**	< 0.2	< 0.5	**6.2**	< 0.3
MW-59B	12/09/2015	Intermediate Gaspur	Primary	MW-59B-120915	< 0.5	**1**	**1.7**	**1.6**	< 0.4	< 0.5	**0.62**	**0.83**	< 0.2	< 0.5	**5.9**	< 0.3
MW-59B	06/09/2016	Intermediate Gaspur	Primary	MW-59B-060916	< 0.5	< 0.2	**0.94**	**3.3**	< 0.4	< 0.5	**0.47 J**	**0.61**	< 0.2	< 0.5	**6.4**	< 0.3
MW-59B	12/02/2016	Intermediate Gaspur	Primary	MW-59B-120216	< 0.5	< 0.2	**0.79**	**2.3**	< 0.4	< 0.5	< 0.2	**0.41 J**	< 0.2	< 0.5	**8.2**	< 0.3
MW-59B	06/06/2017	Intermediate Gaspur	Primary	MW-59B-060617	< 0.5	< 0.2	**0.7**	**4.2**	< 0.4	< 0.5	**0.42 J**	< 0.3	< 0.2	< 0.5	**9.4**	< 0.3
MW-59B	12/08/2017	Intermediate Gaspur	Primary	MW-59B-120817	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.1**	< 0.3
MW-59B	12/08/2017	Intermediate Gaspur	Duplicate	QC21-120817	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.3**	< 0.3
MW-59B	06/06/2018	Intermediate Gaspur	Primary	MW-59B-060618	< 0.5	**0.6**	**0.95**	**2.4**	< 0.4	< 0.5	**0.52**	< 0.3	< 0.2	< 0.5	**4.9**	< 0.3
MW-59B	12/06/2018	Intermediate Gaspur	Primary	MW-59B-120618	< 0.5	**0.36 J**	**0.41 J**	**1.3 J**	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**3.3**	< 0.3
MW-59B	12/06/2018	Intermediate Gaspur	Duplicate	QC16-120618	< 0.5	**0.34 J**	**0.42 J**	**1.2 J**	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**3.4**	< 0.3
MW-59B	06/13/2019	Intermediate Gaspur	Primary	MW-59B-061319	< 0.5	**1**	**0.99**	**2.2**	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**6.9**	< 0.2
MW-59B	12/06/2019	Intermediate Gaspur	Primary	MW-59B-120619	< 0.5	**0.93**	**0.93**	**2.2**	< 0.3	< 0.4	**0.54**	< 0.2	< 0.4	< 0.3	**8.5**	< 0.2
MW-59B	06/12/2020	Intermediate Gaspur	Primary	MW-59B-061220	< 0.5	**0.73**	**1.1**	**3.1**	< 0.5	< 0.5	**0.73**	**0.35 J**	< 0.5	< 0.5	**10**	< 0.5
MW-59B	11/19/2020	Intermediate Gaspur	Primary	MW-59B-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.3 J**	< 0.5
MW-59B	05/19/2021	Intermediate Gaspur	Primary	MW-59B-051921	< 0.5	**1.1**	**1.2**	**2.5**	< 0.5	< 0.5	**0.6**	**0.73**	< 0.5	< 0.5	**11**	< 0.5
MW-59B	11/18/2021	Intermediate Gaspur	Primary	MW-59B-111821	< 0.5 J	**1.6 J**	**2**	**2.5**	< 0.5	< 0.5	**0.53**	**0.68 J**	< 0.5	< 0.5 J	**6.8 J**	< 0.5 J
MW-59B	06/24/2022	Intermediate Gaspur	Primary	MW-59B-062422	< 0.5	**2**	**3.6**	**2.4**	< 0.5	< 0.5	**0.55**	**0.52**	< 0.5	< 0.5	**7.3**	**0.0095**
MW-59B	12/14/2022	Intermediate Gaspur	Primary	MW-59B-121422	< 0.5 J	**2.6 J+**	**15 J+**	**3.5 J+**	< 0.5	< 0.5	< 0.5	**0.92 J+**	< 0.5	< 0.5	**6.4**	**0.013**

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-59B	05/18/2023	Intermediate Gaspur	Primary	MW-59B-051823	< 0.5	**1.2**	**23**	**2.1**	< 0.5	< 0.5	< 0.5	**0.57**	< 0.5	< 0.5	**4.6 J**	**0.01**
MW-59B	12/01/2023	Intermediate Gaspur	Primary	MW-59B-120123	< 0.5	**0.47 J**	**14**	**1.7**	< 0.5	**0.67**	**0.4 J**	**0.42 J**	< 0.5	< 0.5	**4.4**	**0.0081**
MW-59B	05/09/2024	Intermediate Gaspur	Primary	MW-59B-050924	< 0.5	**0.56**	**21**	**3.3**	**0.38 J**	**1.9**	**0.57**	**0.66**	< 0.5	< 0.5	**8**	**0.0073 J**
MW-59B	11/22/2024	Intermediate Gaspur	Primary	MW-59B-112224	< 0.5	**0.45 J**	**8.8**	**2.3**	< 0.5	**9.1 J**	**0.66**	**0.56**	< 0.5	< 0.5	**9**	**0.0083**
MW-59C	06/13/2011	Intermediate Gaspur	Primary	MW-59C-06132011	< 0.5	< 0.5	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 4	< 0.5
MW-59C	09/28/2011	Intermediate Gaspur	Primary	MW-59C-09282011	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94	< 0.5
MW-59C	12/06/2011	Intermediate Gaspur	Primary	MW-59C_20111206	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-59C	03/26/2012	Intermediate Gaspur	Primary	MW-59C-03262012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-59C	06/13/2012	Intermediate Gaspur	Primary	MW-59C-06132012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 0.94	< 0.5
MW-59C	12/11/2012	Intermediate Gaspur	Primary	MW-59C-12112012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.1**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-59C	06/21/2013	Intermediate Gaspur	Primary	MW-59C-062113	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/13/2013	Intermediate Gaspur	Primary	MW-59C-121313	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/12/2014	Intermediate Gaspur	Primary	MW-59C-061214	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.5**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/18/2014	Intermediate Gaspur	Primary	MW-59C-121814	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**0.98**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/09/2015	Intermediate Gaspur	Primary	MW-59C-060915	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/11/2015	Intermediate Gaspur	Primary	MW-59C-121115	< 0.5	< 0.2	**0.35 J**	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/09/2016	Intermediate Gaspur	Primary	MW-59C-060916	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/02/2016	Intermediate Gaspur	Primary	MW-59C-120216	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/06/2017	Intermediate Gaspur	Primary	MW-59C-060617	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/08/2017	Intermediate Gaspur	Primary	MW-59C-120817	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**0.96**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/06/2018	Intermediate Gaspur	Primary	MW-59C-060618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/06/2018	Intermediate Gaspur	Duplicate	QC10-060618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/06/2018	Intermediate Gaspur	Primary	MW-59C-120618	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/12/2019	Intermediate Gaspur	Primary	MW-59C-061219	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**1.7**	< 0.4	< 0.3	< 1	< 0.2
MW-59C	12/06/2019	Intermediate Gaspur	Primary	MW-59C-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**2.3**	< 0.4	< 0.3	< 1	< 0.2
MW-59C	12/06/2019	Intermediate Gaspur	Duplicate	QC20-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	**2.4**	< 0.4	< 0.3	< 1	< 0.2
MW-59C	06/12/2020	Intermediate Gaspur	Primary	MW-59C-061220	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.5 J**	< 0.5	< 0.5	< 2	< 0.5
MW-59C	11/19/2020	Intermediate Gaspur	Primary	MW-59C-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-59C	05/19/2021	Intermediate Gaspur	Primary	MW-59C-051921	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 0.5	< 0.5	**3.4**	< 0.5	< 0.5	< 2	< 0.5
MW-59C	11/18/2021	Intermediate Gaspur	Primary	MW-59C-111821	< 0.5 J	< 0.5 J	**0.42 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	**0.6 J**	< 0.5 J
MW-59C	06/24/2022	Intermediate Gaspur	Primary	MW-59C-062422	< 0.5	< 0.5	**0.42 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	< 2	**0.032**
MW-59C	12/14/2022	Intermediate Gaspur	Primary	MW-59C-121422	< 0.5 J	< 0.5	**0.59 J+**	< 0.5	< 0.5	< 0.5	< 0.5	**3 J+**	< 0.5	< 0.5	< 2	**0.031**
MW-59C	05/18/2023	Intermediate Gaspur	Primary	MW-59C-051823	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 2	**0.025**
MW-59C	12/01/2023	Intermediate Gaspur	Primary	MW-59C-120123	< 0.5	< 0.5	**0.45 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 2	**0.021**
MW-59C	05/07/2024	Intermediate Gaspur	Primary	MW-59C-050724	< 0.5	< 0.5	**0.33 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	< 1	**0.025 J**
MW-59C	11/19/2024	Intermediate Gaspur	Primary	MW-59C-111924	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 1	**0.018**
MW-60A	07/27/2011	Shallow Gaspur	Primary	MW-60A-07272011	< 0.5	**56**	**94**	**7.5**	**5.4**	**0.68**	**10**	**0.69**	< 0.5	< 0.5	**11**	**1.7**
MW-60A	09/28/2011	Shallow Gaspur	Primary	MW-60A-09282011	< 0.5	**28**	**52**	**4.9**	**3.4**	< 0.5	**4.4**	< 0.5	< 0.5	< 0.5	**13**	**0.85**
MW-60A	12/08/2011	Shallow Gaspur	Primary	MW-60A_20111208	< 0.5	**20**	**49**	**4.7**	**3.1**	**0.63**	**5.2**	< 0.5	< 0.5	< 0.5	**13**	< 0.5
MW-60A	03/27/2012	Shallow Gaspur	Primary	MW-60A-03272012	< 0.5	**26**	**67**	**8.4**	**4.5**	**0.97**	**7.9**	< 0.5	< 0.5	< 0.5	**21 J**	< 0.5
MW-60A	06/12/2012	Shallow Gaspur	Primary	MW-60A-061212	< 0.5	**22**	**74**	**7.8**	**4.3**	**1.3**	**8.8**	**0.6**	< 0.5	< 0.5	**32**	**0.66**
MW-60A	12/14/2012	Shallow Gaspur	Primary	MW-60A-12142012	< 0.5	**20**	**87**	**8.1**	**4.5**	**2**	**12**	**0.73**	< 0.5	**0.54**	**22 J**	**0.87**
MW-60A	06/19/2013	Shallow Gaspur	Primary	MW-60A-061913	< 0.5	**12**	**77**	**4.6**	**4**	**0.58**	**9.6**	**0.56**	< 0.2	< 0.5	**19**	**0.95**

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-60A	12/11/2013	Shallow Gaspur	Primary	MW-60A-121113	< 0.5	**3.5**	**12**	**2.4**	**1.3**	**0.58**	**0.6**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-60A	06/11/2014	Shallow Gaspur	Primary	MW-60A-061114	< 0.5	**1.3**	**6.6**	**1.2**	**0.77**	< 0.5	**0.44 J**	**0.34 J**	< 0.2	< 0.5	**5.4**	< 0.3
MW-60A	12/17/2014	Shallow Gaspur	Primary	MW-60A-121714	< 0.5	**1.3**	**4.8**	**0.9**	**0.52**	< 0.5	**0.66**	**0.56**	< 0.2	< 0.5	**5.8**	< 0.3
MW-60A	06/10/2015	Shallow Gaspur	Primary	MW-60A-061015	< 0.5	**2.6**	**6.4**	**0.65**	**0.45 J**	**0.7**	**0.62**	**2.2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-60A	12/08/2015	Shallow Gaspur	Primary	MW-60A-120815	< 0.5	**1.3**	**5.1**	**0.48 J**	< 0.4	< 0.5	**0.29 J**	**1.6**	< 0.2	< 0.5	**2.4**	< 0.3
MW-60A	06/07/2016	Shallow Gaspur	Primary	MW-60A-060716	< 0.5	**3.3**	**3.6**	**0.59**	< 0.4	< 0.5	**0.36 J**	**0.94**	< 0.2	< 0.5	**2.6**	< 0.3
MW-60A	11/29/2016	Shallow Gaspur	Primary	MW-60A-112916	< 0.5	**0.57**	**5.9**	**1.5**	< 0.4	< 0.5	**0.83**	**0.78**	< 0.2	< 0.5	**5.2**	< 0.3
MW-60A	06/07/2017	Shallow Gaspur	Primary	MW-60A-060717	< 0.5	**1.4**	**4.6**	**1.3**	**0.41 J**	< 0.5	**0.53**	**0.52**	< 0.2	< 0.5	**7.4**	< 0.3
MW-60A	06/07/2017	Shallow Gaspur	Duplicate	QC05-060717	< 0.5	**1.4**	**4.4**	**1.4**	< 0.4	< 0.5	**0.47 J**	**0.42 J**	< 0.2	< 0.5	**7.4**	< 0.3
MW-60A	12/06/2017	Shallow Gaspur	Primary	MW-60A-120617	< 0.5	**0.65**	**2**	**1.2**	< 0.4	< 0.5	**0.4 J**	**0.6**	< 0.2	< 0.5	**6.2**	< 0.3
MW-60A	06/06/2018	Shallow Gaspur	Primary	MW-60A-060618	< 0.5	**0.95**	**3**	**1.8**	**0.51**	< 0.5	**0.63**	< 0.3	< 0.2	< 0.5	**5.6**	< 0.3
MW-60A	12/05/2018	Shallow Gaspur	Primary	MW-60A-120518	< 0.5	**1.5**	**2.5**	**2**	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**7.9**	< 0.3
MW-60A	06/12/2019	Shallow Gaspur	Primary	MW-60A-061219	< 0.5	**0.66**	**1.9**	**3.7**	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	**9.5**	< 0.2
MW-60A	12/04/2019	Shallow Gaspur	Primary	MW-60A-120419	< 0.5	**1.2**	**7.8**	**2.7**	**0.47 J**	< 0.4	**1.6**	**0.86**	< 0.4	< 0.3	**13**	< 0.2
MW-60A	06/10/2020	Shallow Gaspur	Primary	MW-60A-061020	< 0.5	**2.7**	**8.6**	**3**	**0.34 J**	< 0.5	**1.6**	**0.75**	< 0.5	< 0.5	**11**	< 0.5
MW-60A	11/18/2020	Shallow Gaspur	Primary	MW-60A-111820	< 0.5	**4.8**	**3.8**	**3.9**	< 0.5	< 0.5	**1.2**	**0.78**	< 0.5	< 0.5	**10**	< 0.5
MW-60A	05/19/2021	Shallow Gaspur	Primary	MW-60A-051921	< 0.5	**2.6**	**6.5**	**2.7**	**0.52**	< 0.5	**1.4**	**0.89**	< 0.5	< 0.5	**15**	< 0.5
MW-60A	11/17/2021	Shallow Gaspur	Primary	MW-60A-111721	< 0.5	**1.5 J**	**3.7**	**2.9**	**0.51**	**0.47 J**	**0.73**	< 0.5	< 0.5	< 0.5	**9.1**	< 0.5
MW-60A	06/22/2022	Shallow Gaspur	Primary	MW-60A-062222	< 0.5	**3.3**	**4.6**	**2.3**	**0.7**	**0.61**	**0.45 J**	**0.47 J**	< 0.5	< 0.5	**8.3**	**0.0093**
MW-60A	06/22/2022	Shallow Gaspur	Duplicate	QC04-062222	< 0.5	**3.4**	**4.9**	**2.5**	**0.75**	**0.57**	**0.57**	**0.56**	< 0.5	< 0.5	**8.8**	**0.0077**
MW-60A	12/14/2022	Shallow Gaspur	Primary	MW-60A-121422	< 0.5	**1.8**	**9.9**	**1.8**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.6**	**0.018**
MW-60A	05/17/2023	Shallow Gaspur	Primary	MW-60A-051723	< 0.5	**2**	**15**	**1.9 J**	**0.74**	< 0.5	**0.41 J**	**0.39 J**	< 0.5	< 0.5	**6.2**	**0.0066**
MW-60A	05/17/2023	Shallow Gaspur	Duplicate	QC09-051723	< 0.5	**1.9**	**14**	**1.4 J**	**0.74**	< 0.5	**0.34 J**	**0.43 J**	< 0.5	< 0.5	**6.1 J**	**0.0066**
MW-60A	11/29/2023	Shallow Gaspur	Primary	MW-60A-112923	< 0.5	**0.59**	**8.6**	**0.62**	**0.37 J**	< 0.5	< 0.5	**0.29 J**	< 0.5	< 0.5	**5.5 J**	**0.0052**
MW-60A	05/08/2024	Shallow Gaspur	Primary	MW-60A-050824	< 0.5	**0.42 J**	**18**	**2.2**	**0.78**	< 0.5	**0.49 J**	**0.48 J**	< 0.5	< 0.5	**6.2**	**0.011**
MW-60A	11/20/2024	Shallow Gaspur	Primary	MW-60A-112024	< 0.5	< 0.5	**11**	**1.1**	**0.33 J**	**0.69**	**0.35 J**	**0.33 J**	< 0.5	< 0.5	**7.6**	**0.023**
MW-60B	07/27/2011	Lower Gaspur	Primary	MW-60B-07272011	< 0.5	**7.7**	**76 J**	**3.1**	**4.6**	**1.1**	**6.2**	**0.78**	< 0.5	< 0.5	**19**	< 0.5
MW-60B	09/28/2011	Lower Gaspur	Primary	MW-60B-09282011	< 0.5	**5.1**	**56**	**2**	**2.9**	**1.4**	**4.6**	**0.87**	< 0.5	< 0.5	**15**	< 0.5
MW-60B	12/08/2011	Lower Gaspur	Primary	DUP5-12082011	< 0.5	**5.3**	**60**	**2**	**3**	**1.9**	**5.2**	**1.1**	< 0.5	< 0.5	**31 J**	< 0.5
MW-60B	12/08/2011	Lower Gaspur	Primary	MW-60B_20111208	< 0.5	**5.7**	**62**	**2**	**3.1**	**1.8**	**5.4**	**1.2**	< 0.5	< 0.5	**16 J**	< 0.5
MW-60B	03/27/2012	Lower Gaspur	Primary	MW-60B-03272012	< 0.5	**5.7**	**68**	**2.4**	**3.6**	**1.8**	**5.3**	**1.3**	< 0.5	< 0.5	**15 J**	< 0.5
MW-60B	06/12/2012	Lower Gaspur	Split	MW-60B-061212-SPL	< 0.5	**4.6**	**55 D**	**2.3**	**3.4**	**3.2**	**5.2**	**1.5**	< 0.5	**0.3 J**	**12**	NA
MW-60B	06/12/2012	Lower Gaspur	Primary	MW-60B-061212	< 0.5	**4.9**	**64**	**2.2**	**3.2**	**2.5**	**5.3**	**1.6**	< 0.5	< 0.5	**25**	< 0.5
MW-60B	12/12/2012	Lower Gaspur	Primary	MW-60B-12122012	< 0.5	**4.6**	**59**	**2.8**	**3.5**	**2**	**4.6**	**1.2**	< 0.5	< 0.5	**25**	< 0.5
MW-60B	12/12/2012	Lower Gaspur	Primary	MW-60B_121212	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**25**	NA
MW-60B	06/19/2013	Lower Gaspur	Primary	MW-60B-061913	< 0.5	**2.3**	**33**	**1.6**	**2.3**	**0.96**	**3.3**	**0.79**	< 0.2	< 0.5	**15**	< 0.3
MW-60B	12/11/2013	Lower Gaspur	Primary	MW-60B-121113	< 0.5	**3**	**36**	**1.9**	**2.8**	**0.93**	**3.2**	**0.98**	< 0.2	< 0.5	**15**	< 0.3
MW-60B	06/11/2014	Lower Gaspur	Primary	MW-60B-061114	< 0.5	**2.8**	**23**	**1**	**1.5**	**0.5**	**1.9**	**0.69**	< 0.2	< 0.5	**12**	< 0.3
MW-60B	12/17/2014	Lower Gaspur	Primary	MW-60B-121714	< 0.5	**1.7**	**22**	**1.2**	**2.1**	**1.2**	**1.6**	**1.2**	< 0.2	< 0.5	**12**	< 0.3
MW-60B	06/10/2015	Lower Gaspur	Primary	MW-60B-061015	< 0.5	**2.3**	**35**	**2.3**	**3.5**	**2**	**4**	**2**	< 0.2	< 0.5	**16**	< 0.3
MW-60B	12/08/2015	Lower Gaspur	Primary	MW-60B-120815	< 0.5	**3.1**	**50**	**3**	**3.8**	**1.2**	**5.2**	**1.1**	< 0.2	< 0.5	**13**	< 0.3
MW-60B	06/07/2016	Lower Gaspur	Primary	MW-60B-060716	< 0.5	**2.1**	**17**	**1.4**	**1.5**	**0.59**	**1.7**	**0.6**	< 0.2	< 0.5	**8.5**	< 0.3
MW-60B	06/07/2016	Lower Gaspur	Duplicate	QC04-060716	< 0.5	**2**	**17**	**1.6**	**1.4**	**0.53**	**1.7**	**0.54**	< 0.2	< 0.5	**8.2**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-60B	11/29/2016	Lower Gaspur	Primary	MW-60B-112916	< 0.5	**1.7**	**20**	**1.5**	**1.7**	**0.5**	**1.7**	**0.41 J**	< 0.2	< 0.5	**9.7**	< 0.3
MW-60B	06/07/2017	Lower Gaspur	Primary	MW-60B-060717	< 0.5	**0.32 J**	**9**	< 0.3	**0.53**	< 0.5	**1**	**1**	< 0.2	< 0.5	**8.9**	< 0.3
MW-60B	12/06/2017	Lower Gaspur	Primary	MW-60B-120617	< 0.5	**1.1**	**21**	**1.4**	**2.4**	< 0.5	**1.8**	**0.65**	< 0.2	< 0.5	**4.8**	< 0.3
MW-60B	06/06/2018	Lower Gaspur	Primary	MW-60B-060618	< 0.5	**1.2**	**20**	**1.3**	**2.7**	< 0.5	**1.9**	< 0.3	< 0.2	< 0.5	**4.2**	< 0.3
MW-60B	12/05/2018	Lower Gaspur	Primary	MW-60B-120518	< 0.5	**0.73**	**14**	**1.1**	**1.7**	< 0.5	**1.1**	< 0.3	< 0.2	< 0.5	**5.6**	< 0.3
MW-60B	06/12/2019	Lower Gaspur	Primary	MW-60B-061219	< 0.5	**0.6**	**18**	**1.7**	**2.5**	< 0.4	**1.2**	< 0.2	< 0.4	< 0.3	**6.6**	< 0.2
MW-60B	12/04/2019	Lower Gaspur	Primary	MW-60B-120419	< 0.5	< 0.3	**14**	**0.9**	**1.6**	< 0.4	**1.1**	< 0.2	< 0.4	< 0.3	**8**	< 0.2
MW-60B	06/10/2020	Lower Gaspur	Primary	MW-60B-061020	< 0.5	**0.46 J**	**17 J**	**1.8 J**	**2.4**	< 0.5	**0.85**	< 0.5	< 0.5	< 0.5	**7.1**	< 0.5
MW-60B	11/18/2020	Lower Gaspur	Primary	MW-60B-111820	< 0.5	< 0.5	**6.5**	< 0.5	**0.48 J**	**0.62**	**0.78**	< 0.5	< 0.5	< 0.5	**7**	< 0.5
MW-60B	05/19/2021	Lower Gaspur	Primary	MW-60B-051921	< 0.5	**0.31 J**	**11**	**1.6**	**2.2**	< 0.5	**0.91**	**0.71**	< 0.5	< 0.5	**8.6**	< 0.5
MW-60B	05/19/2021	Lower Gaspur	Duplicate	QC13-051921	< 0.5	**0.3 J**	**11**	**1.3**	**1.9**	< 0.5	**0.84**	**0.64**	< 0.5	< 0.5	**8.7**	< 0.5
MW-60B	11/17/2021	Lower Gaspur	Primary	MW-60B-111721	< 0.5	< 0.5 J	**12**	**1.8**	**2**	**0.87**	**0.64**	< 0.5	< 0.5	< 0.5	**9.1**	< 0.5
MW-60B	06/22/2022	Lower Gaspur	Primary	MW-60B-062222	< 0.5	< 0.5	**14**	**1.8**	**2.4**	**1**	**0.93**	**0.42 J**	< 0.5	< 0.5	**15**	**0.059**
MW-60B	12/14/2022	Lower Gaspur	Primary	MW-60B-121422	< 0.5	< 0.5	**21**	**3.8 J**	**4.4 J**	< 0.5	**1.6**	< 0.5	< 0.5	< 0.5	**12**	**0.064**
MW-60B	12/14/2022	Lower Gaspur	Duplicate	QC10-121422	< 0.5	< 0.5	**16 J+**	**2.1 J+**	**3 J+**	< 0.5	**1.4 J+**	< 0.5	< 0.5	< 0.5	**12**	**0.064**
MW-60B	05/17/2023	Lower Gaspur	Primary	MW-60B-051723	< 0.5	< 0.5	**13**	**1.9**	**1.9**	< 0.5	**0.66**	< 0.5	< 0.5	< 0.5	**12 J**	**0.061**
MW-60B	11/29/2023	Lower Gaspur	Primary	MW-60B-112923	< 0.5	< 0.5	**12**	**1.9**	**2.1**	**0.72**	**0.84**	**0.41 J**	< 0.5	< 0.5	**10 J**	**0.063**
MW-60B	11/29/2023	Lower Gaspur	Duplicate	QC09-112923	< 0.5	< 0.5	**13**	**2**	**2.2**	**0.7**	**0.89**	**0.43 J**	< 0.5	< 0.5	**11**	**0.056**
MW-60B	05/08/2024	Lower Gaspur	Primary	MW-60B-050824	< 0.5	< 0.5	**14**	**1.9**	**2.2**	**0.46 J**	**0.78**	**0.45 J**	< 0.5	< 0.5	**9.4**	**0.045**
MW-60B	05/08/2024	Lower Gaspur	Duplicate	QC14-050824	< 0.5	< 0.5	**14**	**2.3**	**2.4**	**0.43 J**	**0.94**	**0.48 J**	< 0.5	< 0.5	**9**	**0.045**
MW-60B	11/20/2024	Lower Gaspur	Primary	MW-60B-112024	< 0.5	< 0.5 J	**12**	**1.9**	**2**	**0.7**	**0.76**	< 0.5	< 0.5	< 0.5	**6.2**	**0.048**
MW-61A	09/26/2011	Shallow Gaspur	Primary	MW-61A 09262011	< 0.5	**4.6**	**58**	**1.4**	**3.5**	**9**	**4.2**	**4.8**	**2.4**	< 0.5	**15 J**	< 0.5
MW-61A	12/08/2011	Shallow Gaspur	Primary	MW-61A_20111208	< 0.5	**1.2**	**80**	**1.5**	**3.9**	**4.2**	**4.3**	**6.6**	**3.4**	**0.57**	**15**	< 0.5
MW-61A	03/28/2012	Shallow Gaspur	Primary	MW-61A-03282012	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	**3.9 J**	< 0.5
MW-61A	06/08/2012	Shallow Gaspur	Primary	MW-61A-06082012	< 0.5	**0.88**	**86**	**1.6**	**4.1**	**4.1**	**4.3**	**6**	**5.4**	**0.62**	**12 J**	< 0.5
MW-61A	12/12/2012	Shallow Gaspur	Primary	MW-61A-12122012	< 0.5	**2.5**	**46**	**0.93**	**2.9**	**10**	**3.9**	**4**	**4.9**	**0.54**	**11**	< 0.5
MW-61A	06/21/2013	Shallow Gaspur	Primary	MW-61A-062113	< 0.5	**1.2**	**38**	**1.1**	**2.2**	**3.1**	**3.3**	**2.4**	**3.4**	< 0.5	**11**	< 0.3
MW-61A	12/12/2013	Shallow Gaspur	Primary	MW-61A-121213	< 0.5	**0.43 J**	**50**	**1.6**	**2.7**	**3**	**3.1**	**2.4**	**3.7**	< 0.5	**12**	< 0.3
MW-61A	12/12/2013	Shallow Gaspur	Duplicate	DUP5-121213	< 0.5	**0.34 J**	**48**	**1.5**	**2.3**	**2.8**	**2.9**	**2.4**	**3.6**	< 0.5	**13**	< 0.3
MW-61A	06/09/2014	Shallow Gaspur	Primary	MW-61A-060914	< 0.5	< 0.2	**24**	< 0.3	**4.4**	**1.4**	**0.57**	**1.6**	**2.4**	< 0.5	**3.7**	< 0.3
MW-61A	12/17/2014	Shallow Gaspur	Primary	MW-61A-121714	< 0.5	**1.2**	**59**	**3.5**	**3**	**2.8**	**5**	**0.96**	**0.43 J**	< 0.5	**24**	< 0.3
MW-61A	06/09/2015	Shallow Gaspur	Primary	MW-61A-060915	< 0.5	**2.1**	**34**	**2**	**1.6**	**1.8**	**2.4**	**2.9**	< 0.2	< 0.5	**16**	< 0.3
MW-61A	12/10/2015	Shallow Gaspur	Primary	MW-61A-121015	< 0.5	**26**	**72**	**4.4**	**3.1**	**2.2**	**8.4**	**2.2**	< 0.2	**0.57**	**46**	< 0.3
MW-61A	06/09/2016	Shallow Gaspur	Primary	MW-61A-060916	< 0.5	**0.57**	**43**	**2.4**	**3.1**	**2**	**3.2**	**3.5**	**3.3**	< 0.5	**9.4**	< 0.3
MW-61A	12/01/2016	Shallow Gaspur	Primary	MW-61A-120116	< 0.5	**0.53**	**73**	**2.1**	**4.9**	**2.4**	**4.4**	**4.9**	**3**	< 0.5	**14**	< 0.3
MW-61A	06/06/2017	Shallow Gaspur	Primary	MW-61A-060617	< 0.5	**0.58**	**110**	**2.8**	**5.4**	**6.2**	**7.6**	**3.9**	**4.2**	< 0.5	**26**	< 0.3
MW-61A	12/08/2017	Shallow Gaspur	Primary	MW-61A-120817	< 1	< 0.4	**100**	**2.4**	**6.1**	**1.6**	**8.2**	**4.2**	**5.1**	< 1	**20**	< 0.6
MW-61A	12/08/2017	Shallow Gaspur	Duplicate	QC20-120817	< 1	< 0.4	**110**	**3.3**	**7**	**2**	**9.2**	**4.2**	**5.6**	< 1	**21**	< 0.6
MW-61A	06/05/2018	Shallow Gaspur	Primary	MW-61A-060518	< 0.5	**0.66**	**84**	**2.3**	**4.9**	**2.1**	**9.8**	**4.8**	**3.7**	< 0.5	**14**	< 0.3
MW-61A	12/07/2018	Shallow Gaspur	Primary	MW-61A-120718	< 2	< 0.8	**140**	**4.2**	**6.1**	**5.3**	**16**	< 1.2	**3.2**	< 2	**55**	< 1.2
MW-61A	06/13/2019	Shallow Gaspur	Primary	MW-61A-061319	< 0.5	< 0.3	**40**	**0.98**	**2.1**	**0.74**	**3.2**	**2.7**	**2.8**	< 0.3	**5**	< 0.2
MW-61A	06/13/2019	Shallow Gaspur	Duplicate	QC14-061319	< 0.5	< 0.3	**42**	**0.89**	**2.1**	**0.71**	**3.2**	**2.8**	**2.8**	< 0.3	**4.9**	< 0.2
MW-61A	12/05/2019	Shallow Gaspur	Primary	MW-61A-120519	< 0.5	**0.66**	**89**	**2.8**	**3.7**	**6.9**	**14**	**3.7**	**3.4**	< 0.3	**55**	< 0.2

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-61A	06/11/2020	Shallow Gaspur	Primary	MW-61A-061120	< 0.5	**0.88**	**64**	**1.9**	**2.3**	**1.7**	**11**	**2.8**	**3.7**	< 0.5	**44**	< 0.5
MW-61A	06/11/2020	Shallow Gaspur	Duplicate	QC14-061120	< 0.5	**0.82**	**67**	**1.8**	**2.4**	**2**	**12**	**3.3**	**3.8**	< 0.5	**45**	< 0.5
MW-61A	11/19/2020	Shallow Gaspur	Primary	MW-61A-111920	< 0.5	**0.94**	**18**	**0.91**	**1**	**0.87**	**2**	**2.2**	**2.7**	< 0.5	**16**	< 0.5
MW-61A	05/20/2021	Shallow Gaspur	Primary	MW-61A-052021	< 0.5	< 0.5	**13**	**0.48 J**	**0.73**	**1**	**1.4**	**2**	**0.65**	< 0.5	**9.5**	< 0.5
MW-61A	11/17/2021	Shallow Gaspur	Primary	MW-61A-111721	< 0.5	**0.32 J**	**16**	**0.92**	**1.1**	**2.4 J**	**1.4**	**1.6 J+**	**2.2 J**	< 0.5	**9.1**	< 0.5
MW-61A	11/17/2021	Shallow Gaspur	Duplicate	QC15-111721	< 0.5 J	**0.3 J**	**14**	**1.2**	**1.2**	**1.8 J**	**1.4**	**1.3 J+**	< 0.5 J	< 0.5	**11**	< 0.5 J
MW-61A	06/24/2022	Shallow Gaspur	Primary	MW-61A-062422	< 0.5	**0.55**	**14**	**0.98**	**0.74**	**2.2**	**1.4**	**1.7**	**0.43 J**	< 0.5	**22**	**0.16**
MW-61A	12/13/2022	Shallow Gaspur	Primary	MW-61A-121322	< 0.5	**0.77**	**12**	< 0.5	**1**	**4.3**	**0.64**	**3.4**	< 0.5	< 0.5	**7.3**	**0.048**
MW-61A	05/19/2023	Shallow Gaspur	Primary	MW-61A-051923	< 0.5	< 0.5	**7.6**	< 0.5	**0.6**	**1.1**	**0.35 J**	**2.5**	**0.47 J**	< 0.5	**9.8**	**0.086**
MW-61A	11/30/2023	Shallow Gaspur	Primary	MW-61A-113023	< 0.5	**0.39 J**	**8**	< 0.5	**0.8**	**1.7**	**0.33 J**	**2**	< 0.5	< 0.5	**3.1**	**0.026**
MW-61A	05/09/2024	Shallow Gaspur	Primary	MW-61A-050924	< 0.5	< 0.5	**26**	< 0.5	**6.6**	**1.6**	< 0.5	**2.8**	**0.99**	< 0.5	**1**	**0.013**
MW-61A	11/22/2024	Shallow Gaspur	Primary	MW-61A-112224	< 0.5	< 0.5	**17**	< 0.5	**4.9**	**8.8 J**	**0.85**	**2.1**	< 0.5	< 0.5	**4.6**	**0.017**
MW-61B	09/26/2011	Intermediate Gaspur	Primary	MW-61B 09262011	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-61B	12/06/2011	Intermediate Gaspur	Primary	MW-61B_20111206	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**3**	< 0.5	< 0.5	**4.1**	< 0.5
MW-61B	03/26/2012	Intermediate Gaspur	Primary	MW-61B-03262012	< 0.5	< 0.5	**0.94**	< 0.5	< 0.5	**0.56**	< 0.5	**2.9**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-61B	03/26/2012	Intermediate Gaspur	Duplicate	DUP1-03262012	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**0.59**	< 0.5	**2.9**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-61B	06/08/2012	Intermediate Gaspur	Primary	MW-61B-06082012	< 0.5	< 0.5	**0.9**	< 0.5	< 0.5	**0.85**	< 0.5	**3.3**	< 0.5	< 0.5	**4 J**	< 0.5
MW-61B	12/13/2012	Intermediate Gaspur	Primary	MW-61B-12132012	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	**0.57**	< 0.5	**2.5**	< 0.5	< 0.5	**4**	< 0.5
MW-61B	06/21/2013	Intermediate Gaspur	Primary	MW-61B-062113	< 0.5	< 0.2	**0.34 J**	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	**3.5**	< 0.3
MW-61B	12/12/2013	Intermediate Gaspur	Primary	MW-61B-121213	< 0.5	< 0.2	**0.38 J**	< 0.3	< 0.4	< 0.5	< 0.2	**2.7**	< 0.2	< 0.5	**2.9**	< 0.3
MW-61B	06/09/2014	Intermediate Gaspur	Primary	MW-61B-060914	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.6**	< 0.2	< 0.5	**1.2 J**	< 0.3
MW-61B	12/17/2014	Intermediate Gaspur	Primary	MW-61B-121714	< 0.5	< 0.2	**0.59**	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-61B	06/08/2015	Intermediate Gaspur	Primary	MW-61B-060915	< 0.5	< 0.2	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	**3.3**	< 0.2	< 0.5	**2.5**	< 0.3
MW-61B	12/09/2015	Intermediate Gaspur	Primary	MW-61B-120915	< 0.5	**0.26 J**	**2.1**	< 0.3	< 0.4	< 0.5	**0.29 J**	**3.4**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	06/09/2016	Intermediate Gaspur	Primary	MW-61B-060916	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**2.7**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	12/01/2016	Intermediate Gaspur	Primary	MW-61B-120116	< 0.5	< 0.2	**2.9**	< 0.3	< 0.4	< 0.5	< 0.2	**2.9**	< 0.2	< 0.5	**1.6 J**	< 0.3
MW-61B	06/06/2017	Intermediate Gaspur	Primary	MW-61B-060617	< 0.5	< 0.2	**2.8**	< 0.3	< 0.4	**0.6**	< 0.2	< 0.3	< 0.2	**1.2**	**2.3**	< 0.3
MW-61B	12/08/2017	Intermediate Gaspur	Primary	MW-61B-120817	< 0.5	< 0.2	**0.56**	< 0.3	< 0.4	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	**1.4 J**	< 0.3
MW-61B	06/05/2018	Intermediate Gaspur	Primary	MW-61B-060518	< 0.5	< 0.2	**5.2**	< 0.3	< 0.4	< 0.5	**0.32 J**	**3.4 J**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	06/05/2018	Intermediate Gaspur	Duplicate	QC08-060518	< 0.5	< 0.2	**6**	< 0.3	< 0.4	< 0.5	**0.33 J**	**5.3 J**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	12/07/2018	Intermediate Gaspur	Primary	MW-61B-120718	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-61B	06/13/2019	Intermediate Gaspur	Primary	MW-61B-061319	< 0.5	< 0.3	**7.8**	< 0.4	**0.45 J**	< 0.4	< 0.2	**5.2**	< 0.4	< 0.3	< 1	< 0.2
MW-61B	12/05/2019	Intermediate Gaspur	Primary	MW-61B-120519	< 0.5	< 0.3	**8.2**	< 0.4	**0.54**	**0.48 J**	< 0.2	**5.6**	< 0.4	< 0.3	< 1	< 0.2
MW-61B	06/11/2020	Intermediate Gaspur	Primary	MW-61B-061120	< 0.5	< 0.5	**7**	< 0.5	< 0.5	< 0.5	< 0.5	**7.5**	< 0.5	< 0.5	< 2	< 0.5
MW-61B	11/19/2020	Intermediate Gaspur	Primary	MW-61B-111920	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2 J	< 0.5
MW-61B	05/20/2021	Intermediate Gaspur	Primary	MW-61B-052021	< 0.5	< 0.5	**7.6**	< 0.5	**0.43 J**	**0.53**	< 0.5	**6.4**	< 0.5	< 0.5	**0.92 J**	< 0.5
MW-61B	11/18/2021	Intermediate Gaspur	Primary	MW-61B-111821	< 0.5 J	< 0.5 J	**7.4**	< 0.5	**0.38 J**	**1.3 J**	< 0.5	**4.9 J**	< 0.5	< 0.5 J	**0.8 J**	< 0.5 J
MW-61B	06/24/2022	Intermediate Gaspur	Primary	MW-61B-062422	< 0.5	< 0.5	**8.8**	< 0.5	**0.49 J**	**2.4**	< 0.5	**4.6**	< 0.5	< 0.5	**1 J**	**0.0032 J**
MW-61B	12/13/2022	Intermediate Gaspur	Primary	MW-61B-121322	< 0.5	< 0.5	**0.31 J+**	< 0.5	< 0.5	**16 J+**	< 0.5	**7.6 J+**	< 0.5	< 0.5	**0.89 J**	< 0.005
MW-61B	05/19/2023	Intermediate Gaspur	Primary	MW-61B-051923	< 0.5	< 0.5	**10**	< 0.5	**0.57**	**1.1**	< 0.5	**2.8**	< 0.5	< 0.5	**1.1 J**	< 0.005
MW-61B	11/30/2023	Intermediate Gaspur	Primary	MW-61B-113023	< 0.5	< 0.5	**4.8**	< 0.5	< 0.5	**0.67**	< 0.5	**2.4**	< 0.5	< 0.5	< 2	< 0.005
MW-61B	05/06/2024	Intermediate Gaspur	Primary	MW-61B-050624	< 0.5	< 0.5	**0.87**	< 0.5	< 0.5	**3.4**	< 0.5	**2.1**	< 0.5	< 0.5	< 1	< 0.005
MW-61B	11/22/2024	Intermediate Gaspur	Primary	MW-61B-112224	< 0.5	< 0.5 J	**0.31 J**	< 0.5	**0.42 J**	**18**	< 0.5	**3.6**	< 0.5	< 0.5	**2.4**	< 0.005

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-62A	07/26/2011	Shallow Gaspur	Primary	MW-62A-07262011	< 0.5	**4.7**	**32**	< 0.5	**6.4**	< 0.5	< 0.5	**2.5**	**3.2**	< 0.5	**1.1**	< 0.5
MW-62A	07/26/2011	Shallow Gaspur	Duplicate	DUP1-07262011	< 0.5	**4.2**	**29**	< 0.5	**5.8**	< 0.5	< 0.5	**2.3**	**3**	< 0.5	**1**	< 0.5
MW-62A	09/27/2011	Shallow Gaspur	Primary	MW-62A-09272011	< 0.5	**3.4**	**33**	< 0.5	**6.2**	< 0.5	< 0.5	**2.3**	**3**	< 0.5	< 0.95	< 0.5
MW-62A	12/07/2011	Shallow Gaspur	Primary	MW-62A_20111207	< 0.5	**3.1**	**31**	< 0.5	**6.1**	< 0.5	< 0.5	**2.2**	**2.5**	< 0.5	**1.4**	< 0.5
MW-62A	03/27/2012	Shallow Gaspur	Primary	MW-62A-03272012	< 0.5	**3.1**	**26**	< 0.5	**5**	< 0.5	< 0.5	**2.2**	**2.4**	< 0.5	**1.2 J**	< 0.5
MW-62A	06/12/2012	Shallow Gaspur	Primary	MW-62A-06122012	< 0.5	**2.2**	**25**	< 0.5	**4.2**	< 0.5	< 0.5	**2.2**	**2.5**	< 0.5	**1.2**	< 0.5
MW-62A	12/14/2012	Shallow Gaspur	Primary	MW-62A-12142012	< 0.5	**2.3**	**30**	< 0.5	**6.2**	**0.52**	< 0.5	**1.6**	**2.7**	< 0.5	**1.6**	< 0.5
MW-62A	06/19/2013	Shallow Gaspur	Primary	MW-62A-061913	< 0.5	**1.2**	**23**	< 0.3	**4.6**	< 0.5	**0.3 J**	**1.4**	**1.8**	< 0.5	**1.5 J**	< 0.3
MW-62A	12/11/2013	Shallow Gaspur	Primary	MW-62A-121113	< 0.5	**1.1**	**23**	< 0.3	**4.4**	< 0.5	< 0.2	**1.3**	**1.3**	< 0.5	**1.5 J**	< 0.3
MW-62A	06/11/2014	Shallow Gaspur	Primary	MW-62A-061114	< 0.5	**3.5**	**22**	< 0.3	**6.3**	< 0.5	< 0.2	**1.5**	**1.4**	< 0.5	**1.6 J**	< 0.3
MW-62A	12/17/2014	Shallow Gaspur	Primary	MW-62A-121714	< 0.5	**3.5**	**23**	< 0.3	**8.8**	< 0.5	< 0.2	**1.7**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	06/10/2015	Shallow Gaspur	Primary	MW-62A-061015	< 0.5	**4**	**23**	**0.31 J**	**10**	< 0.5	< 0.2	**3.4**	**1.4**	< 0.5	< 1	< 0.3
MW-62A	12/08/2015	Shallow Gaspur	Primary	MW-62A-120815	< 0.5	**3.3**	**27**	< 0.3	**11**	< 0.5	< 0.2	**2.3**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	12/08/2015	Shallow Gaspur	Duplicate	DUP06-120815	< 0.5	**3.3**	**27**	< 0.3	**11**	< 0.5	< 0.2	**2.4**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	06/07/2016	Shallow Gaspur	Primary	MW-62A-060716	< 0.5	**1.8**	**21**	< 0.3	**8.6**	< 0.5	< 0.2	**1.9**	< 0.2	< 0.5	< 1	< 0.3
MW-62A	11/29/2016	Shallow Gaspur	Primary	MW-62A-112916	< 0.5	**1.3**	**20**	< 0.3	**7.9**	< 0.5	**0.69**	**1.9**	**0.42 J**	< 0.5	**1.2 J**	< 0.3
MW-62A	06/07/2017	Shallow Gaspur	Primary	MW-62A-060717	< 0.5	**0.34 J**	**2.7**	< 0.3	**0.85**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-62A	12/06/2017	Shallow Gaspur	Primary	MW-62A-120617	< 0.5	**0.65**	**22**	< 0.3	**7.8**	< 0.5	**1.5**	**1.5**	< 0.2	< 0.5	**3.6**	< 0.3
MW-62A	06/06/2018	Shallow Gaspur	Primary	MW-62A-060618	< 0.5	**0.54**	**20**	< 0.3	**7.7**	< 0.5	**1.3**	**1.3**	< 0.2	< 0.5	**2.3**	< 0.3
MW-62A	12/05/2018	Shallow Gaspur	Primary	MW-62A-120518	< 0.5	**0.41 J**	**19**	< 0.3	**6.4**	< 0.5	**0.82**	**1.6**	< 0.2	< 0.5	**2.6**	< 0.3
MW-62A	06/12/2019	Shallow Gaspur	Primary	MW-62A-061219	< 0.5	< 0.3	**19**	< 0.4	**8.1**	**1.2**	**0.88**	**1.6**	< 0.4	< 0.3	**2.8**	< 0.2
MW-62A	12/04/2019	Shallow Gaspur	Primary	MW-62A-120419	< 0.5	< 0.3	**16**	< 0.4	**7**	**2.2**	**0.89**	**1.5**	< 0.4	< 0.3	**4**	< 0.2
MW-62A	06/10/2020	Shallow Gaspur	Primary	MW-62A-061020	< 0.5	< 0.5	**10**	< 0.5	**4.6**	< 0.5	**0.67**	**0.98**	< 0.5	< 0.5	**3.3**	< 0.5
MW-62A	11/18/2020	Shallow Gaspur	Primary	MW-62A-111820	< 0.5	**0.41 J**	**12**	< 0.5	**4.4**	**0.93**	**0.33 J**	**1.2**	< 0.5	< 0.5	**2.1**	< 0.5
MW-62A	11/18/2020	Shallow Gaspur	Duplicate	QC10-111820	< 0.5	**0.44 J**	**12**	< 0.5	**4.7**	**1.1**	**0.32 J**	**1.2**	< 0.5	< 0.5	**2.1**	< 0.5
MW-62A	05/19/2021	Shallow Gaspur	Primary	MW-62A-051921	< 0.5	< 0.5	**9.4**	< 0.5	**3.1**	< 0.5	**0.23 J**	**1.3**	< 0.5	< 0.5	**1.7 J**	< 0.5
MW-62A	11/17/2021	Shallow Gaspur	Primary	MW-62A-111721	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.5 J**	< 0.5
MW-62A	06/22/2022	Shallow Gaspur	Primary	MW-62A-062222	< 0.5	< 0.5	**7.8**	< 0.5	**2.8**	**1.5**	< 0.5	**0.8**	< 0.5	< 0.5	**1.5 J**	< 0.005
MW-62A	12/14/2022	Shallow Gaspur	Primary	MW-62A-121422	< 0.5	< 0.5	**8.3**	< 0.5	**2.6**	**0.86**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.005
MW-62A	05/17/2023	Shallow Gaspur	Primary	MW-62A-051723	< 0.5	< 0.5	**5.2**	< 0.5	**1.3**	< 0.5	< 0.5	**0.52**	< 0.5	< 0.5	**1.5 J**	< 0.005 J
MW-62A	11/29/2023	Shallow Gaspur	Primary	MW-62A-112923	< 0.5	**0.64**	**9.3**	< 0.5	**0.95**	**0.93**	**0.27 J**	**0.96**	< 0.5	< 0.5	**2.2 J**	< 0.5
MW-62A	11/29/2023	Shallow Gaspur	Duplicate	QC10-112923	< 0.5	**0.57**	**9**	< 0.5	**0.9**	**0.79**	**0.26 J**	**0.94**	< 0.5	< 0.5	< 2 J	**0.01**
MW-62A	05/08/2024	Shallow Gaspur	Primary	MW-62A-050824	< 0.5	< 0.5	**13**	< 0.5	**3.4**	**3**	< 0.5	**1 J**	< 0.5	< 0.5	**1**	**0.0069**
MW-62A	11/20/2024	Shallow Gaspur	Primary	MW-62A-112024	< 0.5	< 0.5	**40**	< 0.5	**20**	**7.5**	< 0.5	**2.7 J**	**2.7**	< 0.5	< 1	< 10
MW-62B	09/28/2011	Lower Gaspur	Primary	MW-62B-09282011	< 0.5	**44**	**62**	< 0.5	**27**	< 0.5	< 0.5	**7.6**	**20**	< 0.5	< 0.95	< 0.5
MW-62B	12/08/2011	Lower Gaspur	Primary	MW-62B_20111208	< 0.5	**44**	**61**	**0.5**	**25**	< 0.5	< 0.5	**8.3**	**20**	< 0.5	< 0.95	< 0.5
MW-62B	03/28/2012	Lower Gaspur	Primary	MW-62B-03282012	< 0.5	**45**	**72**	**0.52**	**28**	**0.63**	< 0.5	**7.7**	**21**	< 0.5	< 0.94 J	< 0.5
MW-62B	06/12/2012	Lower Gaspur	Primary	MW-62B-06122012	< 0.5	**15**	**90**	**0.57**	**25**	< 0.5	< 0.5	**7.5**	**20**	< 0.5	< 0.94	< 0.5
MW-62B	12/11/2012	Lower Gaspur	Primary	MW-62B(R)-12112012	< 0.5	**0.74**	**76**	**0.52**	**19**	**1.3**	< 0.5	**6.7**	**13**	< 0.5	< 0.95	< 0.5
MW-62B	06/19/2013	Lower Gaspur	Primary	MW-62B(R)-061913	< 0.5	**11**	**41**	**0.36 J**	**13**	**1.3**	< 0.2	**3.6**	**9.7**	< 0.5	< 1 J	< 0.3
MW-62B	12/11/2013	Lower Gaspur	Primary	MW-62B(R)-121113	< 0.5	**1.5**	**46**	**0.51**	**14**	**1.7**	< 0.2	**3.4**	**10**	< 0.5	< 1	< 0.3
MW-62B	06/11/2014	Lower Gaspur	Primary	MW-62B(R)-061114	< 0.5	**6.4**	**30**	< 0.3	**7.5**	**0.75**	< 0.2	**2.1**	**5.6**	< 0.5	< 1	< 0.3
MW-62B	12/17/2014	Lower Gaspur	Primary	MW-62B-121714	< 0.5	**3.1**	**20**	< 0.3	**3.8**	**0.56**	< 0.2	**2**	**2**	< 0.5	< 1	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-62B	06/10/2015	Lower Gaspur	Primary	MW-62B(R)-061015	< 0.5	**6.6**	**18**	< 0.3	**4.2**	**0.82**	< 0.2	**3.7**	**1.6**	< 0.5	< 1	< 0.3
MW-62B	12/08/2015	Lower Gaspur	Primary	MW-62B(R)-120815	< 0.5	**7.3**	**13**	< 0.3	**2.7**	**0.73**	< 0.2	**2.9**	**0.51**	< 0.5	< 1	< 0.3
MW-62B	06/07/2016	Lower Gaspur	Primary	MW-62B(R)-060716	< 0.5	**6.7**	**10**	< 0.3	**2.4**	**0.76**	< 0.2	**1.9**	**0.86**	< 0.5	< 1	< 0.3
MW-62B	11/29/2016	Lower Gaspur	Primary	MW-62B(R)-112916	< 0.5	**4.9**	**8.7**	< 0.3	**2.6**	**1.3**	< 0.2	**2.5**	**0.66**	< 0.5	< 1	< 0.3
MW-62B	06/07/2017	Lower Gaspur	Primary	MW-62B(R)-060717	< 0.5	**4.2**	**9.6**	< 0.3	**1.7**	**0.89**	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
MW-62B	12/06/2017	Lower Gaspur	Primary	MW-62B (R)-120617	< 0.5	**3.8**	**9.5**	< 0.3	**1.8**	**0.64**	< 0.2	**2.5**	< 0.2	< 0.5	< 1.7	< 0.3
MW-62B	06/06/2018	Lower Gaspur	Primary	MW-62B(R)-060618	< 0.5	**4.4**	**11**	< 0.3	**1.8**	< 0.5	< 0.2	**2.4**	< 0.2	< 0.5	< 1	< 0.3
MW-62B	12/05/2018	Lower Gaspur	Primary	MW-62B(R)-120518	< 0.5	**1.8**	**9**	< 0.3	**1.3**	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-62B	06/12/2019	Lower Gaspur	Primary	MW-62B(R)-061219	< 0.5	**1.7**	**7.7**	< 0.4	**1.1**	**1.6**	< 0.2	**1.9**	< 0.4	< 0.3	< 1	< 0.2
MW-62B	12/04/2019	Lower Gaspur	Primary	MW-62B-120419	< 0.5	< 0.3	**1.1**	< 0.4	**1.5**	**8**	< 0.2	**1.9**	< 0.4	< 0.3	< 1	< 0.2
MW-62B	06/10/2020	Lower Gaspur	Primary	MW-62B-061020	< 0.5	< 0.5	**7.8**	< 0.5	**1.5**	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 2	< 0.5
MW-62B	11/18/2020	Lower Gaspur	Primary	MW-62B(R)-111820	< 0.5	< 0.5	**2.1**	< 0.5	**1.2**	**8.6**	< 0.5	**1.5**	< 0.5	< 0.5	< 2	< 0.5
MW-62B	05/19/2021	Lower Gaspur	Primary	MW-62B-051921	< 0.5	**3.2**	**10**	< 0.5	**0.96**	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	< 2	< 0.5
MW-62B	11/17/2021	Lower Gaspur	Primary	MW-62B(R)-111721	< 0.5	< 0.5 J	**4.6**	< 0.5	**0.42 J**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-62B	06/22/2022	Lower Gaspur	Primary	MW-62B-062222	< 0.5	< 0.5	**7.1**	< 0.5	**1.4**	**10**	< 0.5	**1.2**	< 0.5	< 0.5	**0.59 J**	**0.015**
MW-62B	12/14/2022	Lower Gaspur	Primary	MW-62B-121422	< 0.5	**0.75**	**17**	< 0.5	**2.3**	**19**	< 0.5	**2.7**	< 0.5	< 0.5	**0.5 J**	**0.017**
MW-62B	05/17/2023	Lower Gaspur	Primary	MW-62B(R)-051723	< 0.5	< 0.5	< 0.5	< 0.5	**1.5**	**11**	< 0.5	**1.1**	< 0.5	< 0.5	< 2	**0.015**
MW-62B	11/29/2023	Lower Gaspur	Primary	MW-62B-112923	< 0.5	< 0.5	**17**	< 0.5	**1.4**	**1.1**	< 0.5	**1.1**	< 0.5	< 0.5	**0.59 J**	**0.014 J**
MW-62B	05/08/2024	Lower Gaspur	Primary	MW-62B(A)-050824	< 0.5	< 0.5	**23**	< 0.5	**3.1**	**1.2**	< 0.5	**1.5 J**	< 0.5	< 0.5	< 1	**0.013**
MW-62B	11/20/2024	Lower Gaspur	Primary	MW-62B-112024	< 0.5	< 0.5	**51**	< 0.5	**21**	**4.8**	< 0.5	**4**	**3.6**	< 0.5	< 1	**0.015**
MW-63	06/05/2018	Shallow Gaspur	Primary	MW-63-060518	< 0.5	**0.48 J**	**3**	**10**	< 0.4	**0.88**	**1.1**	< 0.3	**3.3**	< 0.5	**22**	< 0.3
MW-63	09/17/2018	Shallow Gaspur	Primary	MW-63-091218	< 0.5	**0.5**	**3.2**	**7.2**	< 0.4	**0.74**	**0.55**	< 0.3	**3.9**	< 0.5	**28**	< 0.3
MW-63	09/17/2018	Shallow Gaspur	Duplicate	QC1-091218	< 0.5	**0.54**	**3.5**	**7.5**	< 0.4	**0.67**	**0.63**	< 0.3	**4.5**	< 0.5	**32**	< 0.3
MW-63	12/04/2018	Shallow Gaspur	Primary	MW-63-120418	< 0.5	**0.58**	**1.4**	**3.5**	< 0.4	< 0.5	< 0.2	< 0.3	**1.8**	< 0.5	**7.3**	< 0.3
MW-63	03/13/2019	Shallow Gaspur	Primary	MW-63-031319	< 0.5	**0.44 J**	**3.3**	**5.2**	< 0.4	< 0.5 J	< 0.2	< 0.3	**4.4**	< 0.5	**25**	< 0.3
MW-63	03/13/2019	Shallow Gaspur	Duplicate	QC2-031319	< 0.5	**0.43 J**	**3.2**	**5**	< 0.4	< 0.5 J	< 0.2	< 0.3	**4.2**	< 0.5	**25**	< 0.3
MW-63	06/11/2019	Shallow Gaspur	Primary	MW-63-061119	< 0.5	**0.54**	**4**	**4.3**	< 0.3	< 0.4	< 0.2	< 0.2	**4.7**	< 0.3	**14**	< 0.2
MW-63	12/06/2019	Shallow Gaspur	Primary	MW-63-120619	< 0.5	**0.55**	**4.6**	**4.6**	< 0.3	< 0.4	**0.28 J**	< 0.2	**5**	< 0.3	**13**	< 0.2
MW-63	06/12/2020	Shallow Gaspur	Primary	MW-63-061220	< 0.5	< 0.5	**6.5**	**3.4**	< 0.5	< 0.5	**0.26 J**	< 0.5	**5.5**	< 0.5	**17**	< 0.5
MW-63	11/18/2020	Shallow Gaspur	Primary	MW-63-111820	< 0.5	**0.53**	**8.2**	**5.3**	**0.82**	< 0.5	**0.35 J**	< 0.5	**8.8**	< 0.5	**22**	< 0.5
MW-63	05/18/2021	Shallow Gaspur	Primary	MW-63-051821	< 0.5	**0.66**	**7.9**	**4.4**	< 0.5	< 0.5	**0.41 J**	< 0.5	**11**	< 0.5	**4.1**	< 0.5
MW-63	11/17/2021	Shallow Gaspur	Primary	MW-63-111721	< 0.5 J	< 0.5 J	**5.1**	**5.3**	< 0.5	< 0.5	**0.35 J**	< 0.5	**3.8**	< 0.5	**15**	< 0.5 J
MW-63	06/23/2022	Shallow Gaspur	Primary	MW-63-062322	< 0.5	**0.34 J**	**4.8**	**3.4**	< 0.5	< 0.5	**0.35 J**	< 0.5	**0.97**	< 0.5	**13**	< 0.005
MW-63	12/13/2022	Shallow Gaspur	Primary	MW-63-121322	< 0.5	**0.4 J**	**4.3**	**2.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**15**	< 0.005
MW-63	05/16/2023	Shallow Gaspur	Primary	MW-63-051623	< 0.5	< 0.5	**3.1**	**1.5**	< 0.5	< 0.5	**0.23 J**	< 0.5	**0.64**	< 0.5	**12**	< 0.005
MW-63	11/29/2023	Shallow Gaspur	Primary	MW-63-112923	< 0.5	< 0.5	**3.9**	**1.6**	< 0.5	< 0.5	**0.22 J**	< 0.5	**0.64**	< 0.5	**10 J**	< 0.005
MW-63	05/06/2024	Shallow Gaspur	Primary	MW-63-050624	< 0.5	< 0.5	**2.6**	**0.62**	< 0.5	< 0.5	< 0.5	< 0.5	**0.48 J**	< 0.5	**9.9**	< 0.005
MW-63	11/21/2024	Shallow Gaspur	Primary	MW-63-112124	< 0.5	< 0.5 J	**4**	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	**0.4 J**	< 0.5	**7.4**	< 0.005
MW-64A	06/05/2018	Intermediate Gaspur	Primary	MW-64A-060518	< 50	< 20	< 20	< 30	< 40	< 50	< 20	< 30	**43 J**	< 50	**5.6**	< 30
MW-64A	09/17/2018	Intermediate Gaspur	Primary	MW-64A-091218	< 0.5	< 0.2	**3.9**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**22**	< 0.5	**7.4**	< 0.3
MW-64A	12/04/2018	Intermediate Gaspur	Primary	MW-64A-120418	< 50	< 20	< 20	< 30	< 40	< 50	< 20	< 30	**42 J**	< 50	**7.1**	< 30
MW-64A	03/13/2019	Intermediate Gaspur	Primary	MW-64A-031319	< 50	< 20	< 20	< 30	< 40	< 50 J	< 20	< 30	< 20	< 50	**7**	< 30
MW-64A	06/11/2019	Intermediate Gaspur	Primary	MW-64A-061119	< 100	< 60	< 60	< 80	< 60	< 80	< 40	< 40	< 80	< 60	**6.4**	< 40

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-64A	12/03/2019	Intermediate Gaspur	Primary	MW-64A-120319	< 50	< 30	< 30	< 40	< 30	< 40	< 20	< 20	< 40	< 30	**7.8**	< 20
MW-64A	06/09/2020	Intermediate Gaspur	Primary	MW-64A-060920	< 5	< 5	**3.4 J**	< 5	< 5	< 5	< 5	< 5	**15**	< 5	**7.9**	< 5
MW-64A	11/18/2020	Intermediate Gaspur	Primary	MW-64A-111820	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	< 0.5	**8.7**	< 0.5
MW-64A	05/18/2021	Intermediate Gaspur	Primary	MW-64A-051821	< 0.5	< 0.5	**5.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**19**	< 0.5	**9.2**	< 0.5
MW-64A	11/16/2021	Intermediate Gaspur	Primary	MW-64A-111621	< 0.5 J	< 0.5 J	**4.9**	< 0.5	**0.4 J**	< 0.5	< 0.5	**0.65**	**16**	< 0.5	**7.7**	< 0.5 J
MW-64A	06/23/2022	Intermediate Gaspur	Primary	MW-64A-062322	< 0.5	< 0.5	**7.2**	< 0.5	**0.43 J**	< 0.5	< 0.5	**0.89**	**18**	< 0.5	**10**	**0.0026 J**
MW-64A	12/13/2022	Intermediate Gaspur	Primary	MW-64A-121322	< 0.5	< 0.5	**7.2**	< 0.5	**0.31 J**	< 0.5	< 0.5	**0.98**	**18**	< 0.5	**8.6**	< 0.005
MW-64A	05/16/2023	Intermediate Gaspur	Primary	MW-64A-051623	< 0.5	< 0.5	**7.2**	< 0.5	**0.36 J**	< 0.5	< 0.5	**0.9 J**	**10**	< 0.5	**9.4**	< 0.005
MW-64A	11/21/2024	Intermediate Gaspur	Primary	MW-64A-112124	< 0.5	< 0.5 J	**9.6**	< 0.5	**0.81**	**0.65**	< 0.5	**0.75**	**21**	< 0.5	**6**	< 0.005
MW-64A	11/21/2024	Intermediate Gaspur	Duplicate	QC15-112124	< 0.5	< 0.5 J	**8.1**	< 0.5	**0.68**	**0.55**	< 0.5	**0.69**	**19**	< 0.5	**6.2**	< 0.005
MW-64B	06/05/2018	Lower Gaspur	Primary	MW-64B-060518	< 0.5	**0.38 J**	**3**	< 0.3	< 0.4	< 0.5	< 0.2	**3.3**	< 0.2	< 0.5	< 1	< 0.3
MW-64B	09/17/2018	Lower Gaspur	Primary	MW-64B-091218	< 0.5	**0.33 J**	**4.1**	< 0.3	< 0.4	< 0.5	< 0.2	**2.8**	< 0.2	< 0.5	< 1	< 0.3
MW-64B	12/04/2018	Lower Gaspur	Primary	MW-64B-120418	< 0.5	**0.48 J**	**4.1**	< 0.3	**0.48 J**	< 0.5	< 0.2	**2.7**	< 0.2	< 0.5	< 1	< 0.3
MW-64B	03/13/2019	Lower Gaspur	Primary	MW-64B-031319	< 0.5	**0.31 J**	**3.6**	< 0.3	< 0.4	< 0.5 J	< 0.2	**1.3 J**	< 0.2	< 0.5	< 1	< 0.3
MW-64B	06/11/2019	Lower Gaspur	Primary	MW-64B-061119	< 0.5	< 0.3	**3.1**	< 0.4	< 0.3	< 0.4	< 0.2	**2.1**	< 0.4	< 0.3	< 1	< 0.2
MW-64B	12/03/2019	Lower Gaspur	Primary	MW-64B-120319	< 0.5	< 0.3	**3**	< 0.4	< 0.3	< 0.4	< 0.2	**3**	< 0.4	< 0.3	< 1	< 0.2
MW-64B	06/09/2020	Lower Gaspur	Primary	MW-64B-060920	< 0.5	< 0.5	**2.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-64B	11/18/2020	Lower Gaspur	Primary	MW-64B-111820	< 0.5	**0.55**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-64B	11/16/2021	Lower Gaspur	Primary	MW-64B-111621	< 0.5 J	< 0.5 J	**2.6**	< 0.5	**0.37 J**	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 2	< 0.5 J
MW-64B	06/23/2022	Lower Gaspur	Primary	MW-64B-062322	< 0.5	< 0.5	**3.3**	< 0.5	< 0.5	< 0.5	< 0.5	**2.9**	**0.41 J**	< 0.5	< 2	< 0.005
MW-64B	06/23/2022	Lower Gaspur	Duplicate	QC10-062322	< 0.5	< 0.5	**3.6**	< 0.5	**0.4 J**	< 0.5	< 0.5	**3.3**	**0.46 J**	< 0.5	< 2	< 0.005
MW-64B	12/13/2022	Lower Gaspur	Primary	MW-64B-121322	< 0.5	< 0.5	**3.6**	< 0.5	**0.58**	< 0.5	< 0.5	**3.7**	< 0.5	< 0.5	< 2	< 0.005
MW-64B	05/16/2023	Lower Gaspur	Primary	MW-64B-051623	< 0.5	< 0.5	**3.9**	< 0.5	< 0.5	< 0.5	< 0.5	**3.6 J**	**0.54**	< 0.5	< 2	< 0.005
MW-64B	05/16/2023	Lower Gaspur	Duplicate	QC06-051623	< 0.5	< 0.5	**3.4**	< 0.5	**0.3 J**	< 0.5	< 0.5	**2.9 J**	**0.54**	< 0.5	< 2	< 0.005
MW-64B	05/06/2024	Lower Gaspur	Primary	MW-64B-050624	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
MW-64B	11/21/2024	Lower Gaspur	Primary	MW-64B-112124	< 0.5	< 0.5 J	**0.99**	< 0.5	**2.2**	**12**	< 0.5	**1.6**	**1.4**	< 0.5	< 1	**0.0052**
EW-2	12/01/2000	Shallow Gaspur	Primary	EW-2_20001201	< 1	**150**	**170**	**9**	**10**	**1.7**	**20**	**5.4**	**2**	**3**	NA	NA
EW-2	03/01/2001	Shallow Gaspur	Primary	EW-2_20010301	**0.6 J**	**130**	**110**	**10 J**	**12**	**2.4**	**20**	< 0.5	**2**	**4**	NA	NA
EW-2	05/01/2003	Shallow Gaspur	Primary	EW-2_20030501	< 50	**86**	**1300 J**	**46 J**	**39 J**	**12 J**	**260**	**46 J**	**20**	< 50 *	NA	NA
EW-2	12/01/2003	Shallow Gaspur	Primary	EW-2_20031201	< 1	**16**	**1200**	**72**	**55**	**13**	**320**	**36**	**15**	**11**	NA	NA
EW-2	02/01/2004	Shallow Gaspur	Primary	EW-2_20040201	< 5	**140**	**1000**	**56**	**44**	**12**	**230**	**39**	**14**	**13**	NA	NA
EW-2	04/04/2004	Shallow Gaspur	Primary	EW-2_20040404	< 0.5	**270**	**1200**	**54 E**	**63 J**	**84 J**	**280**	**48 E**	**20**	**15**	**710**	NA
EW-2	07/01/2004	Shallow Gaspur	Primary	EW-2_20040701	< 2	**130 D**	**390 D**	**27**	**51**	**460 D**	**250 D**	**39**	**14**	**11**	NA	NA
EW-2	11/01/2004	Shallow Gaspur	Primary	EW-2_20041101	< 0.5	**130 D**	**210 D**	**34 E**	**72 JD**	**1100 D**	**240 D**	**41 E**	**20**	**15 J**	**700**	NA
EW-2	04/01/2005	Shallow Gaspur	Primary	EW-2_20050401	< 0.5	**59 D**	**94 D**	**12**	**48 D**	**310 D**	**220 D**	**24**	**20**	**12**	**530**	NA
EW-2	11/01/2005	Shallow Gaspur	Primary	EW-2_20051101	< 0.5	**190**	**120**	**25**	**59**	**430**	**250**	**22**	**16**	**11**	**510**	NA
EW-2	03/01/2006	Shallow Gaspur	Primary	EW-2_20060301	< 0.5	**42 D**	**20**	**4.1**	**42 D**	**190 D**	**200 D**	**16**	**12**	**11**	**550**	NA
EW-2	08/01/2006	Shallow Gaspur	Primary	EW-2_20060801	< 0.5	**30 D**	**46 D**	**5.4**	**40 D**	**110 D**	**200 D**	**21**	**13**	**9.1**	**430**	NA
EW-2	03/01/2008	Shallow Gaspur	Primary	EW-2_20080301	< 0.5	**11**	**10**	**0.69**	**32 D**	**29 D**	**130 D**	**13**	**10**	**6**	**290 D**	NA
EW-2	05/14/2009	Shallow Gaspur	Primary	EW-2_20090514	< 0.5	**29 D**	**94 D**	**2.4 J**	**23 D**	**58 D**	**120 D**	**16**	**10**	**8.1**	**160 D**	NA
EW-2	07/15/2010	Shallow Gaspur	Primary	EW-2	< 0.5	**20**	**140**	**2.4**	**14**	**35 J**	**73 J**	**14**	**5.8**	**5.7**	**87 J**	**2**
EW-2	07/23/2012	Shallow Gaspur	Primary	EW2-072312	< 0.5	**12**	**25**	**2.4**	**1.5**	**3.1**	**4.5**	**1.4**	**1.5**	< 0.5	**12**	< 0.5
EW-2	08/17/2012	Shallow Gaspur	Primary	EW2-081712	< 0.5	**9.2**	**25**	**2.9**	**1.6**	**4.6**	**4.9**	**1.4**	**1.7**	< 0.5	**12 J**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-2	08/24/2012	Shallow Gaspur	Primary	EW2-082412	< 0.5	**9.9**	**29**	**2.4**	**1.5**	**3.7**	**5.1**	**1.3**	**1.6**	**0.5**	**9.8 J**	< 0.5
EW-2	09/07/2012	Shallow Gaspur	Primary	EW2-090712	< 0.5	**17**	**42**	**2.9**	**2.4**	**2.6**	**6.1**	**1.2**	**1.8**	< 0.5	**15 J**	< 0.5
EW-2	09/14/2012	Shallow Gaspur	Primary	EW-2-091412	< 0.5	**16**	**42**	**2.6**	**2.3**	**3.5**	**5.9**	**1.3**	**1.8**	**0.86**	**14 J**	**0.58**
EW-2	02/28/2013	Shallow Gaspur	Primary	EW-02-022813-0001	< 0.5	**13**	**52**	**3.5**	**2.9**	**3.8**	**6.2**	**2**	**5.8**	**0.77**	**16**	< 0.5
EW-2	03/08/2013	Shallow Gaspur	Primary	EW-02-030813-0001	< 1	**13**	**40**	**2.4 J**	**2.5**	**2.8**	**5.1**	**1.4**	**3.8**	< 1	**24**	< 1
EW-2	03/15/2013	Shallow Gaspur	Primary	EW-02-031513-0001	< 1	**15**	**44**	**3.6**	**3**	**3.4**	**5.4**	**1.9**	**3.8**	< 1	**21**	< 1
EW-2	03/22/2013	Shallow Gaspur	Primary	EW-02-032213-0001	< 1	**16**	**47**	**3.1**	**2.9**	**3.8**	**6.1**	**1.9**	**4**	< 1	**21**	< 1 J
EW-2	06/21/2013	Shallow Gaspur	Primary	EW-2-062113	< 0.5	**11**	**41**	**3.2**	**2.7**	**2.8**	**6.2**	**1.7**	**2.4**	< 0.5	**17**	< 0.3
EW-2	12/13/2013	Shallow Gaspur	Primary	EW-02-121313	< 0.5	**12**	**38**	**3**	**2.3**	**2.7**	**4.4**	**2.1**	**2.5**	< 0.5	**16**	< 0.3
EW-2	06/12/2014	Shallow Gaspur	Primary	EW-02-061214	< 0.5	**3.8**	**26**	**2**	**1.8**	**1.4**	**2.7**	**1.3**	**2.4**	< 0.5	**15**	< 0.3
EW-2	12/17/2014	Shallow Gaspur	Primary	EW-02-121714	< 0.5	**4.2**	**35**	**2.5**	**2.1**	**2.9**	**3.7**	**1.3**	**2.7**	< 0.5	**16**	< 0.3
EW-2	06/11/2015	Shallow Gaspur	Primary	EW-02-061115	< 0.5	**6.3**	**32**	**3.2**	**2.5**	**4.7**	**4.7**	**2.5 J**	**3.1**	< 0.5	**17**	< 0.3
EW-2	12/11/2015	Shallow Gaspur	Primary	EW-02-121115	< 0.5	**2.5**	**27**	**3.6**	**1.7**	**3.2**	**3.2**	**0.86**	**2.5**	< 0.5	**16**	< 0.3
EW-2	06/10/2016	Shallow Gaspur	Primary	EW02-061016	< 0.5	**2.3**	**17**	**4.9**	**1.2**	**2**	**2.1**	**0.42 J**	**2.5**	< 0.5	**17**	< 0.3
EW-2	12/01/2016	Shallow Gaspur	Primary	EW-02-120116	< 0.5	**1.9**	**19**	**4.6**	**1.3**	**2.2**	**2.1**	**0.38 J**	**2.7**	< 0.5	**18**	< 0.3
EW-2	06/07/2017	Shallow Gaspur	Primary	EW-02-060717	< 0.5	**0.48 J**	**11**	**2.8**	**0.82**	**3**	**1.7**	**0.42 J**	**2.7**	< 0.5	**17**	< 0.3
EW-2	12/06/2017	Shallow Gaspur	Primary	EW-02-120617	< 0.5	**0.93**	**29**	**2.4**	**1.4**	**2.6**	**4.2**	**0.95**	**3.3**	< 0.5	**13**	< 0.3
EW-2	06/06/2018	Shallow Gaspur	Primary	EW-2-060618	< 0.5	**0.52**	**15**	**2.2**	**0.93**	**1.3**	**1.3**	< 0.3	**5**	< 0.5	**7.9**	< 0.3
EW-2	06/06/2018	Shallow Gaspur	Duplicate	QC12-060618	< 0.5	**0.6**	**16**	**2.1**	**0.91**	**1.2**	**1.3**	< 0.3	**4.6**	< 0.5	**8**	< 0.3
EW-2	12/04/2018	Shallow Gaspur	Primary	EW-02-120418	< 0.5	**0.6**	**13**	**2.8**	< 0.4	< 0.5	**0.79**	< 0.3	**5**	< 0.5	**8.9**	< 0.3
EW-2	06/13/2019	Shallow Gaspur	Primary	EW-2-061319	< 0.5	**0.48 J**	**7.3**	**1.4**	< 0.3	< 0.4	< 0.2	< 0.2	**2.4**	< 0.3	**7**	< 0.2
EW-4	07/26/2011	Shallow/Intermediate	Primary	EW-4-07262011	< 0.5	**1**	**43**	< 0.5	**4.4**	< 0.5	**1.3**	**2.2**	**5.2**	< 0.5	**8.1**	< 0.5
EW-4	02/28/2013	Shallow/Intermediate	Primary	EW-04-022813-0001	< 0.5	**1.9**	**45**	**0.82**	**2**	**2.2**	**2**	**3.6**	**5.2**	< 0.5	**8.8**	< 0.5
EW-4	03/08/2013	Shallow/Intermediate	Primary	EW-04-030813-0001	< 1	**3.4**	**36**	< 1 J	**2.3**	**2**	**2.4**	**2.6**	**4**	< 1	**9.8**	< 1
EW-4	03/15/2013	Shallow/Intermediate	Primary	EW-04-031513-0001	< 1	**3.5**	**40**	**1.2**	**2.4**	**2.4**	**2.7**	**3.3**	**3.5**	< 1	**9.9**	< 1
EW-4	03/22/2013	Shallow/Intermediate	Primary	EW-04-032213-0001	< 1	**4.1**	**43**	**1.3**	**2.5**	**2.8**	**3**	**3.4**	**3.5**	< 1	**11**	< 1 J
EW-4	06/21/2013	Shallow/Intermediate	Primary	EW-4-062113	< 0.5	**5.4**	**43**	**2**	**2.5**	**2**	**4.2**	**2**	**2.2**	< 0.5	**15**	< 0.3
EW-4	12/13/2013	Shallow/Intermediate	Primary	EW-04-121313	< 0.5	**5.5**	**48**	**2.6**	**3.2**	**2**	**4.7**	**1.6**	**1.2**	< 0.5	**17**	< 0.3
EW-4	06/12/2014	Shallow/Intermediate	Primary	EW-04-061214	< 0.5	**1.9**	**44**	**2**	**3.4**	**1.3**	**3.1**	**1.4**	**1.2**	< 0.5	**20**	< 0.3
EW-4	12/17/2014	Shallow/Intermediate	Primary	EW-04-121714	< 0.5	**0.76**	**28**	**1.2**	**2**	**0.92**	**1.4**	**1.2**	**0.7**	< 0.5	**14**	< 0.3
EW-4	06/11/2015	Shallow/Intermediate	Primary	EW-04-061115	< 0.5	**4.4**	**40**	**2**	**4.8**	**2.1**	**3.1**	**3.2 J**	**1.5**	< 0.5	**15**	< 0.3
EW-4	12/09/2015	Shallow/Intermediate	Primary	EW-04-120915	< 0.5	**0.63**	**41**	**1.4**	**6.7**	**2.2**	**2.4**	**3.9**	**2.2**	< 0.5	**6.2**	< 0.3
EW-4	06/10/2016	Shallow/Intermediate	Primary	EW-04-061016	< 0.5	**0.61**	**41**	**1.4**	**4.9**	**2.1**	**2.1**	**3.9**	**2.7**	< 0.5	**2.9**	< 0.3
EW-4	12/01/2016	Shallow/Intermediate	Primary	EW-04-120116	< 0.5	**0.56**	**39**	**1.3**	**4.7**	**4.1**	**2**	**3.2**	**1.6**	< 0.5	**7.4**	< 0.3
EW-4	06/09/2017	Shallow/Intermediate	Primary	EW-4-060917	< 0.5	**0.4 J**	**38**	**0.91**	**3.4**	**1.6**	**2**	**2.5**	**1.4**	< 0.5	**10**	< 0.3
EW-4	06/09/2017	Shallow/Intermediate	Duplicate	QC06-060917	< 0.5	**0.42 J**	**41**	**0.87**	**4.6**	**1.5**	**2.2**	**2.8**	**1.6**	< 0.5	**11**	< 0.3
EW-4	12/06/2017	Shallow/Intermediate	Primary	EW-4-120617	< 0.5	**0.38 J**	**45**	**1.1**	**3.6**	**1.8**	**2.7**	**3.7**	**1.5**	< 0.5	**9**	< 0.3
EW-4	06/07/2018	Shallow/Intermediate	Primary	EW-4-060718	< 0.5	< 0.2	**23**	**0.58**	**2.6**	**1.5**	**1.7**	**1.6**	**0.49 J**	< 0.5	**4**	< 0.3
EW-4	12/07/2018	Shallow/Intermediate	Primary	EW-04-120718	< 0.5	< 0.2	**0.36 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
EW-4	06/14/2019	Shallow/Intermediate	Primary	EW-4-061419	< 0.5	< 0.3	**1.1**	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
EW-4	12/06/2019	Shallow/Intermediate	Primary	EW-4-120619	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
EW-4	06/12/2020	Shallow/Intermediate	Primary	EW-4-061220	< 0.5	< 0.5	**21**	< 0.5	**3.8**	**0.71**	**0.75**	**3.1 J**	**1.1**	< 0.5	**4.4**	< 0.5
EW-4	11/18/2020	Shallow/Intermediate	Primary	EW-4-111820	< 0.5	**0.38 J**	**26**	**0.61**	**5.4**	**0.58**	**0.76**	**3.2**	**0.95**	< 0.5	**6.1**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-4	05/19/2021	Shallow/Intermediate	Primary	EW-04-051921	< 0.5	**0.36 J**	**20**	**0.42 J**	**4.2**	**0.42 J**	**0.51**	**2.1**	**0.82**	< 0.5	**7.2**	< 0.5
EW-4	11/17/2021	Shallow/Intermediate	Primary	EW-4-111721	< 0.5	**0.46 J**	**28**	**0.67**	**8.6**	< 0.5	**0.68**	**2.4 J+**	< 0.5	< 0.5	< 2	< 0.5
EW-4	06/22/2022	Shallow/Intermediate	Primary	EW-4-062222-0001	< 0.5	**0.37 J**	**29**	< 0.5	**8.8**	**1.4**	**0.44 J**	**3.2**	**0.56**	< 0.5	**4.4**	**0.018**
EW-4	12/21/2022	Shallow/Intermediate	Primary	EW-4-122122	< 0.5	**0.36 J**	**40**	< 0.5	**12**	**0.96**	< 0.5	**4**	< 0.5	< 0.5	**0.73 J**	**0.0052**
EW-4	05/17/2023	Shallow/Intermediate	Primary	EW-4-051723	< 0.5	< 0.5	**41**	**0.45 J**	**10**	**0.75**	< 0.5	**3.8**	**0.75**	< 0.5	**2.3 J**	**0.019**
EW-4	11/29/2023	Shallow/Intermediate	Primary	EW-04-112923	< 0.5	< 0.5	**34**	**0.4 J**	**9.3**	**1.4**	**0.33 J**	**3.5**	**0.63**	< 0.5	**2.7 J**	**0.026**
EW-4	05/08/2024	Shallow/Intermediate	Primary	EW-04-050824	< 0.5	< 0.5	**67**	**0.46 J**	**19**	**0.83**	**0.33 J**	**4.1 J**	**2.5**	< 0.5	**1.6**	**0.015**
EW-4	11/20/2024	Shallow/Intermediate	Primary	EW-04-112024	< 0.5	< 0.5	**44**	< 0.5	**12**	**2.2**	**0.45 J**	**3.3**	**0.62**	< 0.5	**2.4**	< 25
EW-5	06/19/2013	Shallow Gaspur	Primary	EW-5-061913	< 0.5	**18**	**59**	**5.7**	**3.3**	**0.87**	**9.4**	**0.45 J**	< 0.2	< 0.5	**29**	< 0.3
EW-5	12/11/2013	Shallow Gaspur	Primary	EW-05-121113	< 0.5	**10**	**4.7**	**0.48 J**	< 0.4	< 0.5	**0.32 J**	< 0.3	< 0.2	< 0.5	< 1	< 0.3
EW-5	06/11/2014	Shallow Gaspur	Primary	EW-05-061114	< 0.5	**5.2**	**12**	**0.95**	**0.78**	< 0.5	**0.6**	< 0.3	< 0.2	< 0.5	**5.9**	< 0.3
EW-5	12/17/2014	Shallow Gaspur	Primary	EW-05-121714	< 0.5	**6.1**	**3.9**	**0.4 J**	< 0.4	< 0.5	**0.25 J**	< 0.3	< 0.2	< 0.5	**2**	< 0.3
EW-5	12/09/2015	Shallow Gaspur	Primary	EW-05-120915-0001	< 0.5	**10**	**24**	**1.4**	**1.4**	< 0.5	**1.3**	**1.8**	< 0.2	< 0.5	**16**	< 0.3
EW-5	12/16/2015	Shallow Gaspur	Primary	EW-05-121615-0001	< 0.5	**9.4**	**23**	**1.3**	**1.7**	< 0.5	**1.1**	**1.5**	< 0.2	< 0.5	**14**	< 0.3
EW-5	12/23/2015	Shallow Gaspur	Primary	EW-05-122315-0001	< 0.5	**10**	**34**	**2.2**	**1.9**	< 0.5	**2.1**	**1.8**	**0.3 J**	< 0.5	**18**	< 0.3
EW-5	12/30/2015	Shallow Gaspur	Primary	EW-05-123015-0001	< 0.5	**9.5**	**25**	**1.6**	**1.7**	**0.56**	**1.8**	< 0.3	< 0.2	< 0.5	**17**	< 0.3
EW-5	06/08/2016	Shallow Gaspur	Primary	EW-5-060816	< 0.5	**9.1**	**26**	**1.9**	**1.4**	< 0.5	**1.9**	**1.7**	< 0.2	< 0.5	**11**	< 0.3
EW-5	12/02/2016	Shallow Gaspur	Primary	EW-05-120216	< 0.5	**13**	**20**	**1.5**	**1.1**	< 0.5	**1.4**	< 0.3	< 0.2	< 0.5	**13**	< 0.3
EW-5	06/07/2017	Shallow Gaspur	Primary	EW-5-060717	< 0.5	**11**	**15**	**1.3**	**0.71**	< 0.5	**1.8**	< 0.3	< 0.2	< 0.5	**15**	< 0.3
EW-5	12/06/2017	Shallow Gaspur	Primary	EW-5-120617	< 0.5	**11**	**29**	**2.3**	**1.9**	< 0.5	**3.4**	**0.71**	< 0.2	< 0.5	**15**	< 0.3
EW-5	06/06/2018	Shallow Gaspur	Primary	EW-05-060618	< 0.5	**14**	**44**	**3.1**	**3.2**	< 0.5	**6.4**	**1.2**	< 0.2	< 0.5	**13**	< 0.3
EW-5	12/05/2018	Shallow Gaspur	Primary	EW-05-120518	< 0.5	**2**	**35 J+**	< 0.3	**5.5 J+**	< 0.5	**1.5 J+**	**1.9**	**0.77**	< 0.5	**6.1**	< 0.3
EW-5	06/12/2019	Shallow Gaspur	Primary	EW-05-061219	< 0.5	**8.8**	**43**	**3.4**	**1.9**	< 0.4	**7.5**	< 0.2	< 0.4	< 0.3	**32**	< 0.2
EW-5	12/04/2019	Shallow Gaspur	Primary	EW-5-120419	< 0.5	< 0.3	< 0.3	< 0.4	< 0.3	< 0.4	< 0.2	< 0.2	< 0.4	< 0.3	< 1	< 0.2
EW-5	02/05/2020	Shallow Gaspur	Primary	EW-5-020520-0001	< 0.5	**12**	**67**	**5.6**	**3.4**	< 0.5	**11**	**0.91**	< 0.5	< 0.5	**40**	< 0.5
EW-5	06/10/2020	Shallow Gaspur	Primary	EW-05-061020	< 0.5	**6.5**	**56**	**5**	**1.9**	**0.78**	**10**	**0.99**	< 0.5	< 0.5	**45**	< 0.5
EW-5	06/10/2020	Shallow Gaspur	Duplicate	QC09-061020	< 0.5	**7.3**	**58**	**5.2**	**2.1**	**0.86**	**11**	**1.2**	< 0.5	< 0.5	**45**	< 0.5
EW-5	11/18/2020	Shallow Gaspur	Primary	EW-5-111820	< 0.5	**5.1**	**62**	**5.8**	**3.2**	**1.2**	**11**	**0.85**	**0.49 J**	**0.57**	**55**	< 0.5
EW-5	05/19/2021	Shallow Gaspur	Primary	EW-05-051921	< 0.5	**1.9**	**30**	**3.1**	**1.4**	**3.3**	**5.5**	**0.55**	< 0.5	< 0.5	**43**	< 0.5
EW-5	11/17/2021	Shallow Gaspur	Primary	EW-5-111721	< 0.5 J	**0.87 J**	**13**	**2.8**	**1.3**	**6.6**	**2.8**	< 0.5	< 0.5	< 0.5	**23**	< 0.5 J
EW-5	06/22/2022	Shallow Gaspur	Primary	EW-5-062222-0001	< 0.5	**1.1**	**11**	**2.4**	**0.66**	**1.1**	**1.7**	**0.5**	< 0.5	< 0.5	**23**	**0.11**
EW-5	12/14/2022	Shallow Gaspur	Primary	EW-5-121422	< 0.5	**4.9 J**	**23 J**	**3.1 J**	**1.4 J**	**3.4**	**2.7**	< 0.5	< 0.5	< 0.5	**17**	**0.088**
EW-5	12/14/2022	Shallow Gaspur	Duplicate	QC11-121422	< 0.5	**2.5 J**	**16 J**	**2.1 J**	**0.77 J**	**3.4**	**2.4**	< 0.5	< 0.5	< 0.5	**17**	**0.099**
EW-5	11/29/2023	Shallow Gaspur	Primary	EW-05-112923	< 0.5	**0.82**	**12**	**1.8**	**0.74**	**1.2**	**0.92**	**0.4 J**	< 0.5	< 0.5	**12 J**	**0.088**
EW-5	05/08/2024	Shallow Gaspur	Primary	EW-05-050824	< 0.5	< 0.5	**3.2**	< 0.5	**0.38 J**	**1.8**	**0.31 J**	< 0.5	< 0.5	< 0.5	**5**	**0.0063**
EW-5	11/20/2024	Shallow Gaspur	Primary	EW-05-112024	< 0.5	< 0.5	**4.5**	**0.41 J**	**0.59**	**6.6**	**0.38 J**	**0.21 J**	< 0.5	< 0.5	**7.2**	**0.011**
EW-7A	06/19/2013	Shallow/Intermediate	Primary	EW-7A-061913	< 0.5	**3.1**	**41**	**0.55**	**3.7**	< 0.5	**1.2**	**2**	**2.3**	< 0.5	**5.2**	< 0.3
EW-7A	12/11/2013	Shallow/Intermediate	Primary	EW-7A-121113	< 0.5	**1.8**	**35**	**0.51**	**4.4**	< 0.5	**0.72**	**2.1**	**3.9**	< 0.5	**3.4**	< 0.3
EW-7A	12/11/2013	Shallow/Intermediate	Duplicate	DUP3-121113	< 0.5	**1.8**	**36**	**0.51**	**4.4**	< 0.5	**0.56**	**2.1**	**4**	< 0.5	**3.4**	< 0.3
EW-7A	06/11/2014	Shallow/Intermediate	Primary	EW-07A-061114	< 0.5	**0.94**	**36**	**0.38 J**	**3.3**	< 0.5	**0.38 J**	**1.6**	**2.3**	< 0.5	**4.5**	< 0.3
EW-7A	12/17/2014	Shallow/Intermediate	Primary	EW-7A-121714	< 0.5	**0.82**	**33**	< 0.3	**3.5**	< 0.5	**0.48 J**	**1.4**	**2.3**	< 0.5	**2.5**	< 0.3
EW-7A	12/17/2014	Shallow/Intermediate	Duplicate	DUP06-121714	< 0.5	**0.88**	**34**	**0.36 J**	**3.6**	< 0.5	**0.49 J**	**1.7**	**2.2**	< 0.5	**2.6**	< 0.3
EW-7A	12/09/2015	Shallow/Intermediate	Primary	EW-07A-120915-0001	< 0.5	**1.4**	**27**	< 0.3	**5.6**	< 0.5	< 0.2	**1.9**	**3.1**	< 0.5	**1 J**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-7A	12/10/2015	Shallow/Intermediate	Primary	EW-7A-121015	< 0.5	**1.3**	**30**	< 0.3	**6.3**	< 0.5	**0.3 J**	**1.8**	**2.6**	< 0.5	< 1	< 0.3
EW-7A	12/10/2015	Shallow/Intermediate	Duplicate	DUP07-121015	< 0.5	**1.4**	**31**	< 0.3	**6.6**	< 0.5	**0.26 J**	**1.8**	**2.7**	< 0.5	< 1	< 0.3
EW-7A	12/16/2015	Shallow/Intermediate	Primary	EW-07A-121615-0001	< 0.5	**1.4**	**25**	< 0.3	**5.7**	< 0.5	< 0.2	**2.1**	**2.9**	< 0.5	< 1	< 0.3
EW-7A	12/23/2015	Shallow/Intermediate	Primary	EW-07A-122315-0001	< 0.5	**1.4**	**36**	**0.46 J**	**6.9**	< 0.5	**0.43 J**	**1.8**	**3.1**	< 0.5	**2**	< 0.3
EW-7A	12/30/2015	Shallow/Intermediate	Primary	EW-07A-123015-0001	< 0.5	**1.3**	**27**	< 0.3	**6.8**	**0.52**	< 0.2	< 0.3	**3**	< 0.5	**1.3 J**	< 0.3
EW-7A	06/07/2016	Shallow/Intermediate	Primary	EW-7A-060716	< 0.5	**2.3**	**29**	**0.6**	**6.9**	< 0.5	**0.64**	**1.8**	**2.1**	< 0.5	**3**	< 0.3
EW-7A	11/29/2016	Shallow/Intermediate	Primary	EW-07A-112916	< 0.5	**1.9**	**29**	**0.49 J**	**6.4**	< 0.5	**0.77**	**1.7**	**1.8**	< 0.5	**4.7**	< 0.3
EW-7A	06/07/2017	Shallow/Intermediate	Primary	EW-7A-060717	< 0.5	**1.8**	**24**	**0.53**	**4.2**	< 0.5	**1**	**1.2**	**0.83**	< 0.5	**6.5**	< 0.3
EW-7A	12/06/2017	Shallow/Intermediate	Primary	EW-7A-120617	< 0.5	**0.71**	**23**	< 0.3	**5**	< 0.5	**0.36 J**	**2.1**	**1.4**	< 0.5	**2.6**	< 0.3
EW-7A	06/06/2018	Shallow/Intermediate	Primary	EW-7A-060618	< 0.5	**1**	**24**	< 0.3	**5.1**	< 0.5	**1**	**1.7**	**1.4**	< 0.5	**2 J**	< 0.3
EW-7A	12/05/2018	Shallow/Intermediate	Primary	EW-07A-120518	< 0.5	**1.3**	**27**	< 0.3	**5.8**	< 0.5	**1.3**	**1.2 J**	**0.94**	< 0.5	**6.2**	< 0.3
EW-7A	12/05/2018	Shallow/Intermediate	Duplicate	QC09-120518	< 0.5	**1.4**	**29**	< 0.3	**6**	< 0.5	**1.4**	**1.8 J**	**0.96**	< 0.5	**5.9**	< 0.3
EW-7A	06/12/2019	Shallow/Intermediate	Primary	EW-07A-061219	< 0.5	**0.57**	**23**	< 0.3	**5.2**	< 0.5	< 0.2	< 0.3	**0.6**	< 0.5	**3.8**	< 0.3
EW-7A	12/04/2019	Shallow/Intermediate	Primary	EW-7A-120419	< 0.5	**0.92**	**28**	< 0.4	**5.5**	< 0.4	**0.79**	**1.6**	**0.76**	< 0.3	**3.7**	< 0.2
EW-7A	06/10/2020	Shallow/Intermediate	Primary	EW-07A-061020	< 0.5	**0.56**	**29**	< 0.5	**7.1**	< 0.5	**1**	**1.8**	< 0.5	< 0.5	**4**	< 0.5
EW-7A	11/18/2020	Shallow/Intermediate	Primary	EW-7A-111820	< 0.5	**0.55**	**31**	< 0.5	**8.3**	< 0.5	**1.1**	**1.8**	**0.59**	< 0.5	**4.2**	< 0.5
EW-7A	11/18/2020	Shallow/Intermediate	Duplicate	QC09-111820	< 0.5	**0.6**	**33**	< 0.5	**8.6**	< 0.5	**1.2**	**2**	**0.62**	< 0.5	**4.4**	< 0.5
EW-7A	05/19/2021	Shallow/Intermediate	Primary	EW-07A-051921	< 0.5	**0.44 J**	**22**	< 0.5	**5.9**	< 0.5	**0.74**	**1.1**	< 0.5	< 0.5	**4.6**	< 0.5
EW-7A	11/17/2021	Shallow/Intermediate	Primary	EW-7A-111721	< 0.5 J	< 0.5 J	**22**	< 0.5	**7.4**	< 0.5	**0.96**	**1 J+**	< 0.5	< 0.5	**4.9**	< 0.5 J
EW-7A	06/22/2022	Shallow/Intermediate	Primary	EW-7A-062222-0001	< 0.5	**0.34 J**	**21**	< 0.5	**6.9**	**0.64**	**0.95**	**0.96**	< 0.5	< 0.5	**6**	**0.019**
EW-7A	12/14/2022	Shallow/Intermediate	Primary	EW-7A-121422	< 0.5	< 0.5	**22**	< 0.5	**6.6**	< 0.5	**0.7**	**1.2**	< 0.5	< 0.5	**4.9**	**0.021**
EW-7A	05/17/2023	Shallow/Intermediate	Primary	EW-7A-051723	< 0.5	< 0.5	**15**	< 0.5	**4.6**	< 0.5	**0.59**	**0.49 J**	< 0.5	< 0.5	**5.1 J**	**0.014 J**
EW-7A	11/29/2023	Shallow/Intermediate	Primary	EW-07A-112923	< 0.5	< 0.5	**13**	< 0.5	**3.3**	< 0.5	**0.54**	**0.84**	< 0.5	< 0.5	**4.9 J**	< 0.025
EW-7A	05/08/2024	Shallow/Intermediate	Primary	EW-07A-050824	< 0.5	< 0.5	**14**	< 0.5	**3.8**	< 0.5	**0.44 J**	**0.8 J**	< 0.5	< 0.5	**4**	**0.0099**
EW-7A	11/20/2024	Shallow/Intermediate	Primary	EW-07A-112024	< 0.5	< 0.5	**11**	< 0.5	**2.8**	< 0.5	**0.38 J**	**0.87**	< 0.5	< 0.5	**2.4**	**0.017**
EW-7B	06/19/2013	Lower Gaspur	Primary	EW-7B-061913	< 0.5	**3**	**42**	**0.33 J**	**6.6**	**0.59**	**0.57**	**2.6**	**4.2**	< 0.5	**4.4**	< 0.3
EW-7B	12/11/2013	Lower Gaspur	Primary	EW-7B-121113	< 0.5	**2.9**	**52**	**0.44 J**	**8.6**	**0.54**	**0.53**	**3.1**	**5.2**	< 0.5	**4.3**	< 0.3
EW-7B	06/11/2014	Lower Gaspur	Primary	EW-07B-061114	< 0.5	**1.7**	**43**	< 0.3	**6.7**	< 0.5	< 0.2	**2.2**	**4.5**	< 0.5	**3.6**	< 0.3
EW-7B	12/17/2014	Lower Gaspur	Primary	EW-7B-121714	< 0.5	**1.6**	**38**	< 0.3	**7.1**	**0.75**	**0.26 J**	**1.9**	**4.5**	< 0.5	**2.4**	< 0.3
EW-7B	12/09/2015	Lower Gaspur	Primary	EW-07B-120915-0001	< 0.5	**4**	**50**	< 0.3	**8.4**	**1.1**	**1.1**	**2.8**	**4.5**	< 0.5	**5.1**	< 0.3
EW-7B	12/10/2015	Lower Gaspur	Primary	EW-7B-121015	< 0.5	**3.9**	**57**	**0.69**	**10**	**1.3**	**1.3**	**2.8**	**4.4**	< 0.5	**4.1**	< 0.3
EW-7B	12/16/2015	Lower Gaspur	Primary	EW-07B-121615-0001	< 0.5	**4.2**	**53**	< 0.3	**8.6**	**1.2**	**1**	**3.2**	**4.7**	< 0.5	**4.7**	< 0.3
EW-7B	12/23/2015	Lower Gaspur	Primary	EW-07B-122315-0001	< 0.5	**4.4**	**68**	**1.4**	**10**	**2.4**	**2**	**3.2**	**5.1**	< 0.5	**6.5**	< 0.3
EW-7B	12/30/2015	Lower Gaspur	Primary	EW-07B-123015-0001	< 0.5	**3.8**	**51**	**0.86**	**9.7**	**1.6**	**1.4**	< 0.3	**4.5**	< 0.5	**6.5**	< 0.3
EW-7B	06/07/2016	Lower Gaspur	Primary	EW-7B-060716	< 0.5	**3.5**	**52**	**1.2**	**7.5**	**1.2**	**1.6**	**2.4**	**2.5**	< 0.5	**7.1**	< 0.3
EW-7B	11/29/2016	Lower Gaspur	Primary	EW-07B-112916	< 0.5	**3.4**	**58**	**1.2**	**6.6**	**0.94**	**1.6**	**2.2**	**2.3**	< 0.5	**9.2**	< 0.3
EW-7B	06/07/2017	Lower Gaspur	Primary	EW-7B-060717	< 0.5	**2.9**	**46**	**0.82**	**5.1**	**0.82**	**1.5**	**1.6**	**1.2**	< 0.5	**8.9**	< 0.3
EW-7B	12/06/2017	Lower Gaspur	Primary	EW-07B-120617	< 0.5	**2.4**	**44**	**0.62**	**4.7**	< 0.5	**1.5**	**2**	**0.79**	< 0.5	**6.4**	< 0.3
EW-7B	06/06/2018	Lower Gaspur	Primary	EW-7B-060618	< 0.5	**2.6**	**55**	**0.87**	**6.1**	< 0.5	**2**	**2.4**	**1.2**	< 0.5	**4.9**	< 0.3
EW-7B	12/05/2018	Lower Gaspur	Primary	EW-07B-120518	< 0.5	**2.4**	**46 J+**	< 0.3	**5.8 J+**	< 0.5	**1.5 J+**	**2.2**	**0.99**	< 0.5	**5.8**	< 0.3
EW-7B	06/12/2019	Lower Gaspur	Primary	EW-07B-061219	< 0.5	**1.6**	**35**	**0.52**	**4.6**	< 0.5	**1.1**	**1.3**	**0.57**	< 0.5	**5.2**	< 0.3
EW-7B	12/04/2019	Lower Gaspur	Primary	EW-7B-120419	< 0.5	**1.9**	**35**	**0.59**	**4.8**	**0.44 J**	**1.1**	**1.6**	**0.65**	< 0.3	**6.6**	< 0.2
EW-7B	06/10/2020	Lower Gaspur	Primary	EW-07B-061020	< 0.5	**1.7**	**27**	< 0.5	**5.2**	< 0.5	**1.2**	**1.9**	**0.4 J**	< 0.5	**4.1**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-7B	11/19/2020	Lower Gaspur	Primary	EW-7B-111920	< 0.5	**1.9**	**36**	**0.59**	**5.8**	< 0.5	**1.1**	**1.6**	**0.8**	< 0.5	**2.7 J**	< 0.5
EW-7B	05/19/2021	Lower Gaspur	Primary	EW-07B-051921	< 0.5	**1.6**	**32**	**0.47 J**	**3.9**	< 0.5	**0.91**	**1.4**	**0.49 J**	< 0.5	**6**	< 0.5
EW-7B	11/17/2021	Lower Gaspur	Primary	EW-7B-111721	< 0.5 J	**1.3 J**	**27**	**0.69**	**4**	< 0.5	**0.89**	**1.2 J+**	< 0.5	< 0.5	**6**	< 0.5 J
EW-7B	06/24/2022	Lower Gaspur	Primary	EW-7B-062422	< 0.5	**1.1**	**17**	< 0.5	**3.2**	< 0.5	**0.52**	**1.1**	< 0.5	< 0.5	**3.7**	**0.017**
EW-7B	12/14/2022	Lower Gaspur	Primary	EW-7B-121422	< 0.5	**1.3**	**25**	**0.47 J**	**3**	**0.43 J**	**0.64**	**0.93**	< 0.5	< 0.5	**5.7**	**0.038**
EW-7B	05/17/2023	Lower Gaspur	Primary	EW-7B-051723	< 0.5	**0.99**	**21**	< 0.5	**2.4**	< 0.5	**0.47 J**	**0.81**	< 0.5	< 0.5	**4.8**	**0.032 J**
EW-7B	11/29/2023	Lower Gaspur	Primary	EW-07B-112923	< 0.5	**0.97**	**21**	**0.41 J**	**2.3**	< 0.5	**0.48 J**	**0.96**	< 0.5	< 0.5	**4.8 J**	**0.038**
EW-7B	05/08/2024	Lower Gaspur	Primary	EW-07B-050824	< 0.5	< 0.5	**18**	< 0.5	**2**	**0.99**	**0.41 J**	**0.91 J**	< 0.5	< 0.5	**3.8**	**0.017**
EW-7B	11/20/2024	Lower Gaspur	Primary	EW-07B-112024	< 0.5	**1.2**	**27**	**0.51**	**3**	**0.41 J**	**0.59**	**1**	< 0.5	< 0.5	**3.8**	**0.047**
EW-7B	11/20/2024	Lower Gaspur	Duplicate	QC08-112024	< 0.5	**0.96**	**26**	**0.45 J**	**2.7**	**0.4 J**	**0.56**	**1**	< 0.5	< 0.5	**3.8**	**0.048**
EW-8	06/21/2013	Lower Gaspur	Primary	EW-8-062113	< 0.5	**1.2**	**47**	**0.8**	**3.3**	**1.3**	**2.2**	**3.2**	**2**	< 0.5	**7.9**	< 0.3
EW-8	12/11/2013	Lower Gaspur	Primary	EW-08-121113	< 0.5	**1.8**	**56**	**0.98**	**6.1**	**1.8**	**2.1**	**3.7**	**3**	< 0.5	**7.9**	< 0.3
EW-8	06/11/2014	Lower Gaspur	Primary	EW-08-061114	< 0.5	**1.7**	**55**	**0.84**	**6**	**2.1**	**2**	**3.2**	**3.4**	< 0.5	**8.7**	< 0.3
EW-8	12/18/2014	Lower Gaspur	Primary	EW-08-121814	< 0.5	**1.4**	**47**	**0.61**	**5.4**	**1.3**	**1.3**	**2.6**	**2.8**	< 0.5	**5.8**	< 0.3
EW-8	06/09/2015	Lower Gaspur	Primary	EW-08-060915	< 0.5	**1.6**	**45**	**0.54**	**8.7**	**1.6**	**1**	**4.3**	**4.4**	< 0.5	**3.9**	< 0.3
EW-8	12/08/2015	Lower Gaspur	Primary	EW-08-120815	< 0.5	**1.8**	**40**	< 0.3	**9.4**	**1.5**	**0.75**	**2.7**	**3.8**	< 0.5	**1.7 J**	< 0.3
EW-8	06/07/2016	Lower Gaspur	Primary	EW-08-060716	< 0.5	**1.2**	**30**	< 0.3	**9.3**	**3.4**	**1.2**	**2.3**	**4**	< 0.5	**2.6**	< 0.3
EW-8	11/30/2016	Lower Gaspur	Primary	EW-08-113016	< 0.5	**1.5**	**35**	< 0.3	**9.5**	**1.2**	**2.3**	**2.5**	**3**	< 0.5	**5.5**	< 0.3
EW-8	06/09/2017	Lower Gaspur	Primary	EW-8-060917	< 0.5	**1.1**	**30**	< 0.3	**10**	**0.91**	**0.58**	**2.4**	**2.4**	< 0.5	**2 J**	< 0.3
EW-8	12/05/2017	Lower Gaspur	Primary	EW-08-120517	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
EW-8	06/07/2018	Lower Gaspur	Primary	EW-8-060718	< 0.5	**0.77**	**38**	< 0.3	**9.4**	**1.2**	**0.52**	**3.3**	**3.5**	< 0.5	**1.4 J**	< 0.3
EW-8	12/06/2018	Lower Gaspur	Primary	EW-08-120618	< 0.5	**0.38 J**	**27**	< 0.3	**8.4**	**4.6**	< 0.2	**2.1**	**3.2**	< 0.5	**1.6 J**	< 0.3
EW-8	06/13/2019	Lower Gaspur	Primary	EW-8-061319	< 0.5	**0.49 J**	**32**	< 0.4	**7.7**	**1.5**	< 0.2	**2.6**	**2.1**	< 0.3	**1.7 J**	< 0.2
EW-8	12/03/2019	Lower Gaspur	Primary	EW-8-120319	< 0.5	**0.46 J**	**33**	< 0.4	**8.3**	**1.4**	**0.26 J**	**2.7**	**2.3**	< 0.3	**1.9 J**	< 0.2
EW-8	06/11/2020	Lower Gaspur	Primary	EW-8-061120	< 0.5	**0.51**	**51**	< 0.5	**18**	**2.4**	< 0.5	**3.6 J**	**4.2**	< 0.5	**2**	< 0.5
EW-8	11/20/2020	Lower Gaspur	Primary	EW-8-112020	< 0.5	< 0.5	**0.99**	< 0.5	**0.36 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
EW-8	05/19/2021	Lower Gaspur	Primary	EW-08-051921	< 0.5	**0.42 J**	**38**	< 0.5	**16**	**3.7**	**0.24 J**	**3.9**	**2.8**	< 0.5	**2.2**	< 0.5
EW-8	05/19/2021	Lower Gaspur	Duplicate	QC12-051921	< 0.5	**0.39 J**	**38**	< 0.5	**16**	**3.8**	< 0.5	**3.9**	**2.9**	< 0.5	**2.3**	< 0.5
EW-8	11/17/2021	Lower Gaspur	Primary	EW-8-111721	< 0.5	< 0.5 J	**6.3**	< 0.5	**9.6**	**30**	< 0.5	**2.6 J+**	**3.7**	< 0.5	**2**	< 0.5
EW-8	06/22/2022	Lower Gaspur	Primary	EW-8-062222-0001	< 0.5	< 0.5	**0.81**	< 0.5	**0.7**	**1.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	**0.0031 J**
EW-8	12/19/2022	Lower Gaspur	Primary	EW-8-121922	< 0.5	< 0.5	**1.8**	< 0.5	**2.1**	**6.7**	< 0.5	**0.61**	< 0.5	< 0.5	**1 J**	**0.016**
EW-8	05/19/2023	Lower Gaspur	Primary	EW-08-051923	< 0.5	< 0.5	**0.43 J**	< 0.5	**0.66**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
EW-8	12/01/2023	Lower Gaspur	Primary	EW-8-120123	< 0.5	< 0.5	**1.4**	< 0.5	**1.5**	**3.5**	< 0.5	**0.3 J**	< 0.5	< 0.5	**0.56 J**	**0.007**
EW-8	05/08/2024	Lower Gaspur	Primary	EW-08-050824	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
EW-8	11/21/2024	Lower Gaspur	Primary	EW-08-112124	< 0.5	< 0.5 J	**0.44 J**	< 0.5	**0.45 J**	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.005
EW-A	12/09/2015	Lower Gaspur	Primary	EW-A-120915	< 0.5	**1.2**	**32**	**0.92**	**5**	**1.9**	**2**	**4**	**1.8**	< 0.5	**7.2**	< 0.3
EW-A	12/09/2015	Lower Gaspur	Primary	EW-A-120915-0001	< 0.5	**1.1**	**25**	**0.76**	**4**	**1.2**	**1.4**	**3.3**	**1.7**	< 0.5	**8.4**	< 0.3
EW-A	12/16/2015	Lower Gaspur	Primary	EW-A-121615-0001	< 0.5	**1.2**	**26**	< 0.3	**4.2**	**1.2**	**1.3**	**3.4**	**1.8**	< 0.5	**7.2**	< 0.3
EW-A	12/23/2015	Lower Gaspur	Primary	EW-A-122315-0001	< 0.5	**1.4**	**35**	**1**	**4.9**	**2**	**2.1**	**3.6**	**2**	< 0.5	**9**	< 0.3
EW-A	12/30/2015	Lower Gaspur	Primary	EW-A-123015-0001	< 0.5	**1.4**	**31**	**1.1**	**5.5**	**2**	**2**	< 0.3	**2.2**	< 0.5	**8.7**	< 0.3
EW-A	06/10/2016	Lower Gaspur	Primary	EW-A-061016	< 0.5	**1.4**	**46**	**1.5**	**5.6**	**1.2**	**2.9**	**3**	**3.6**	< 0.5	**13**	< 0.3
EW-A	12/01/2016	Lower Gaspur	Primary	EW-A-120116	< 0.5	**0.83**	**51**	**2**	**6.8**	**1.8**	**3.4**	**2.9**	**2.2**	< 0.5	**18**	< 0.3
EW-A	06/09/2017	Lower Gaspur	Primary	EW-A-060917	< 0.5	**0.59**	**44**	**1.4**	**5.2**	**1.4**	**2.7**	**2.2**	**2.3**	< 0.5	**16**	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-A	12/06/2017	Lower Gaspur	Primary	EW-A-120617	< 0.5	**0.69**	**60**	**1.7**	**5.8**	**2.4**	**4.5**	**3.4**	**2**	< 0.5	**16**	< 0.3
EW-A	12/06/2017	Lower Gaspur	Duplicate	QC09-120617	< 0.5	**0.71**	**58**	**1.8**	**5.3**	**2.2**	**4.4**	**3.2**	**1.9**	< 0.5	**18**	< 0.3
EW-A	06/06/2018	Lower Gaspur	Primary	EW-A-060618	< 0.5	**0.73**	**54**	**1.4**	**7.1**	**3.8**	**4.2**	**3.9**	**3.3**	< 0.5	**9.8**	< 0.3
EW-A	12/07/2018	Lower Gaspur	Primary	EW-A-120718	< 1	**0.51 J**	**42 J**	**1.4 J**	**5.5**	**2.7**	**2.7**	< 0.6	**2.3**	< 1	**11**	< 0.6
EW-A	06/13/2019	Lower Gaspur	Primary	EW-A-061319	< 0.5	**0.61**	**50**	**1.2**	**6.4**	**2.8**	**3.7**	**3.2**	**2.3**	< 0.3	**13**	< 0.2
EW-A	12/06/2019	Lower Gaspur	Primary	EW-A-120619	< 0.5	**0.51**	**32**	**0.68**	**5.3**	**1.9**	**1.4**	**2.5**	**2**	< 0.3	**8.6**	< 0.2
EW-A	06/12/2020	Lower Gaspur	Primary	EW-A-061220	< 0.5	**0.77**	**46**	**0.85**	**7.4**	**1.7**	**2.3**	**2.9 J**	**2.9**	< 0.5	**10**	< 0.5
EW-A	06/12/2020	Lower Gaspur	Duplicate	QC20-061220	< 0.5	**0.71**	**45**	**0.75**	**7.4**	**1.8**	**2.3**	**3 J**	**2.9**	< 0.5	**11**	< 0.5
EW-A	11/18/2020	Lower Gaspur	Primary	EW-A-111820	< 0.5	**1.1**	**50**	**0.88**	**11**	**2.1**	**2.1**	**3.3**	**3.3**	< 0.5	**11**	< 0.5
EW-A	05/19/2021	Lower Gaspur	Primary	EW-A-051921	< 0.5	**0.93**	**41**	**0.52**	**8.2**	**1.6**	**1.2**	**2.8**	**2.4**	< 0.5	**8.9**	< 0.5
EW-A	11/17/2021	Lower Gaspur	Primary	EW-A-111721	< 0.5	**0.89 J**	**39**	**0.64**	**10**	**2.5**	**1.2**	**3 J+**	**0.43 J**	< 0.5	**5**	< 0.5
EW-A	06/22/2022	Lower Gaspur	Primary	EW-A-062222-0001	< 0.5	**0.79**	**30**	**0.47 J**	**8.2**	**2.9**	**0.69**	**2.2**	**1.9**	< 0.5	**7.8**	**0.027**
EW-A	12/14/2022	Lower Gaspur	Primary	EW-A-121422	**1.3**	**3.2**	**55**	< 0.5	**13**	**4.8**	< 0.5	**4.3**	**1.6 J**	< 0.5	**8.4**	**0.027**
EW-A	05/17/2023	Lower Gaspur	Primary	EW-A-051723	< 0.5	**0.53**	**36**	< 0.5	**9.2**	**2.9**	**0.47 J**	**2.7**	**1.8**	< 0.5	**5.1 J**	**0.017**
EW-A	11/29/2023	Lower Gaspur	Primary	EW-0A-112923	< 0.5	**0.55**	**43**	< 0.5	**12**	**2.5**	**0.53**	**3.3**	**2**	< 0.5	**4.6 J**	**0.025**
EW-A	05/08/2024	Lower Gaspur	Primary	EW-A-050824	< 0.5	**0.72**	**56**	**0.59**	**16**	**1.7**	**0.49 J**	**3 J**	**2.4**	< 0.5	**4.6**	**0.02**
EW-A	11/20/2024	Lower Gaspur	Primary	EW-A-112024	< 0.5	**0.6**	**42**	**0.44 J**	**12**	**1.9**	**0.43 J**	**2.3**	**1.8**	< 0.5	**3.8**	< 30
PTW-2	08/02/2019	Shallow Gaspur	Primary	PTW-2-080219	< 0.5	**9.8 J**	**99 J**	**4**	**2.5**	**0.78**	**21 J**	**2.2**	**4 J**	**1.1 J**	**59**	**3.8**
PTW-2	01/15/2020	Shallow Gaspur	Primary	PTW-2-011520	< 0.5	**0.32 J**	**4**	< 0.5	**0.31 J**	< 0.5	**0.43 J**	< 0.5	**0.59**	< 0.5	**3.2**	< 0.5
PTW-2	01/22/2020	Shallow Gaspur	Primary	PTW-2-012220	< 0.5	**0.74**	**8.4**	**0.64**	**0.54**	**0.47 J**	**0.74**	**0.47 J**	**1.1**	< 0.5	**4.5**	**0.44 J**
PTW-2	01/29/2020	Shallow Gaspur	Primary	PTW-2-012920	< 0.5	**1.1**	**9.2**	**0.69**	**0.66**	< 0.5	**1**	< 0.5	**1.1**	< 0.5	**5**	< 0.5
PTW-2	02/05/2020	Shallow Gaspur	Primary	PTW-2-020520	< 0.5	**1.4**	**11 J**	**0.8**	**0.97 J**	< 0.5	**1.2 J**	< 0.5	**1.4 J**	< 0.5	**4.7**	< 0.5
PTW-2	02/19/2020	Shallow Gaspur	Primary	PTW-2-021920	< 0.5	**1.6**	**11**	**1**	**1**	< 0.5	**1.2**	**1.2**	**1.3**	< 0.5	**4.2**	< 0.5
PTW-2	05/05/2020	Shallow Gaspur	Primary	PTW-2-050520	< 0.5	**0.35 J**	**3.1**	< 0.5	< 0.5	< 0.5	**0.32 J**	< 0.5	< 0.5	< 0.5	**1.4 J**	< 0.5
PTW-2	05/26/2020	Shallow Gaspur	Primary	PTW-2-052620	< 0.5	**0.49 J**	**4.8**	< 0.5	**0.49 J**	< 0.5	**0.5**	< 0.5	< 0.5	< 0.5	**1.8 J**	< 0.5
PTW-2	06/30/2020	Shallow Gaspur	Primary	PTW-2-063020	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 0.5	**0.28 J**	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5
PTW-2	07/29/2020	Shallow Gaspur	Primary	PTW-2-072920	< 0.5	**0.36 J**	**4**	< 0.5	**0.38 J**	< 0.5	**0.42 J**	< 0.5	< 0.5	< 0.5	**4.4**	< 0.5
PTW-2	08/26/2020	Shallow Gaspur	Primary	PTW-2-082620	< 0.5	< 0.5	**2.2**	< 0.5	**0.34 J**	< 0.5	**0.26 J**	< 0.5	< 0.5	< 0.5	**5.6**	< 0.5
PTW-2	09/24/2020	Shallow Gaspur	Primary	PTW-2-092420	< 0.5	< 0.5 J	**4.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**8.5**	< 0.5
PTW-2	10/13/2020	Shallow Gaspur	Primary	PTW-2-101320	< 0.5	< 0.5	**5.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.54**	< 0.5	**8.7**	< 0.5
PTW-2	11/02/2020	Shallow Gaspur	Primary	PTW-2-110220	< 0.5	**0.58**	**7.4**	< 0.5	**0.64 J**	< 0.5	**0.58 J**	**0.27 J**	**1.7**	< 0.5	**6.1 J**	< 0.5 J
PTW-2	12/01/2020	Shallow Gaspur	Primary	PTW-2-120120	< 0.5	**0.52**	**8**	**0.72**	**0.66**	< 0.5	**0.74**	**0.41 J**	**2.8**	< 0.5	**8.7**	< 0.5
PTW-2	12/23/2020	Shallow Gaspur	Primary	PTW-2-122320	< 0.5	**0.63**	**8.8**	**0.42 J**	**0.75**	< 0.5	**0.65**	< 0.5	**1.5**	< 0.5	**8.1**	< 0.5 J
PTW-2	12/31/2020	Shallow Gaspur	Primary	PTW-2-123120	< 0.5	**0.8**	**9**	**0.68**	**0.75**	< 0.5	**0.83**	**0.37 J**	**1.4**	< 0.5	**9**	< 0.5
PTW-2	01/27/2021	Shallow Gaspur	Primary	PTW-2-012721	< 0.5	**0.94**	**8**	**0.61**	**0.58**	< 0.5	**0.78**	< 0.5	**1.5**	< 0.5	**7.8 J**	< 0.5
PTW-2	05/19/2021	Shallow Gaspur	Primary	PTW-02-051921	< 0.5	**0.97**	**10**	**1.1**	**0.53**	< 0.5	**0.67**	**0.5**	**1.8**	< 0.5	**10**	< 0.5
PTW-2	11/17/2021	Shallow Gaspur	Primary	PTW-2-111721	< 0.5	**0.7 J**	**9.2**	**1.5**	**0.64**	< 0.5	**0.65**	< 0.57	< 0.5	< 0.5	**9.7**	< 0.5
PTW-2	06/22/2022	Shallow Gaspur	Primary	EW-PTW-2-062222-0001	< 0.5	**0.57**	**6.6**	**0.91**	**0.4 J**	< 0.5	**0.41 J**	**0.59**	**0.48 J**	< 0.5	**12**	**0.044**
PTW-2	12/14/2022	Shallow Gaspur	Primary	PTW-2-121422	< 0.5	**0.82**	**8.6**	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**12**	**0.058**
PTW-2	05/17/2023	Shallow Gaspur	Primary	PTW-02-051723	< 0.5	**0.56**	**6.6**	**0.95**	< 0.5	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	**9.2 J**	**0.065**
PTW-2	11/29/2023	Shallow Gaspur	Primary	PTW-02-112923	< 0.5	**0.35 J**	**5.2**	**0.64**	< 0.5	< 0.5	**0.24 J**	**0.58**	< 0.5	< 0.5	**8.1 J**	**0.074**
PTW-2	05/08/2024	Shallow Gaspur	Primary	PTW-2-050824	< 0.5	**0.56**	**6**	**0.41 J**	**0.49 J**	**0.42 J**	**0.43 J**	**1.5 J**	< 0.5	< 0.5	**6.6**	**0.12**
PZ-7A	08/11/2011	Shallow Gaspur	Primary	PZ-7A-08112011	< 0.5	**7.2**	**20**	< 0.5	**1.4**	< 0.5	**0.53**	**2.8**	**1.7**	< 0.5	**2.7**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
PZ-7A	09/27/2011	Shallow Gaspur	Primary	PZ-7A-09272011	< 0.5	**5.6**	**25**	< 0.5	**1.7**	< 0.5	**0.64**	**2.6**	**1.5**	< 0.5	< 0.95	< 0.5
PZ-7A	12/07/2011	Shallow Gaspur	Primary	PZ-7A_20111207	< 0.5	**4.4**	**30**	< 0.5	**2.4 J**	< 0.5	**0.63**	**3.1**	**1.6**	< 0.5	**2.2**	< 0.5
PZ-7A	12/07/2011	Shallow Gaspur	Duplicate	DUP3-12072011	< 0.5	**4.6**	**23**	< 0.5	**1.7 J**	< 0.5	**0.5**	**3.2**	**1.5**	< 0.5	**2.3**	< 0.5
PZ-7A	03/27/2012	Shallow Gaspur	Primary	PZ-7A-03272012	< 0.5	**3.1**	**27**	< 0.5	**2**	< 0.5	< 0.5	**2.7**	**1.9**	< 0.5	**2.5 J**	< 0.5
PZ-7A	06/12/2012	Shallow Gaspur	Primary	PZ-7A-06122012	< 0.5	**2.5**	**30**	< 0.5	**2**	< 0.5	**0.54**	**3.2 J**	**2.5**	< 0.5	**2.2**	< 0.5
PZ-7A	12/13/2012	Shallow Gaspur	Primary	PZ-7A-12132012	< 0.5	**1.4**	**26**	< 0.5	**1.6**	< 0.5	**0.53**	**3.2**	**1.6**	< 0.5	< 0.95	< 0.5
PZ-7A	06/19/2013	Shallow Gaspur	Primary	PZ-7A-061913	< 0.5	**1.5**	**27**	**0.48 J**	**2.5**	< 0.5	**0.57**	**2.5**	**1.5**	< 0.5	**2.3**	< 0.3
PZ-7A	12/11/2013	Shallow Gaspur	Primary	PZ-7A-121113	< 0.5	**2.2**	**30**	< 0.3	**2.7**	< 0.5	**0.4 J**	**2.2**	**1.4**	< 0.5	**2.4**	< 0.3
PZ-7A	06/11/2014	Shallow Gaspur	Primary	PZ-07A-061114	< 0.5	**2.4**	**22**	< 0.3	**2.3**	< 0.5	< 0.2	**1.6**	**1.2**	< 0.5	**2.4**	< 0.3
PZ-7A	12/17/2014	Shallow Gaspur	Primary	PZ-7A-121714	< 0.5	**1.9**	**22**	< 0.3	**2.3**	< 0.5	< 0.2	**1.3**	**1.2**	< 0.5	**1.7 J**	< 0.3
PZ-7A	06/10/2015	Shallow Gaspur	Primary	PZ-07A-061015	< 0.5	**3.7**	**27**	< 0.3	**5.5**	**0.66**	**0.35 J**	**3**	**2.2**	< 0.5	< 1	< 0.3
PZ-7A	12/09/2015	Shallow Gaspur	Primary	PZ-07A-120915	< 0.5	**3.1**	**30**	< 0.3	**7.2**	< 0.5	< 0.2	**3.1**	**2.7**	< 0.5	< 1	< 0.3
PZ-7A	06/07/2016	Shallow Gaspur	Primary	PZ-7A-060716	< 0.5	**2.6**	**26**	< 0.3	**8.2**	< 0.5	< 0.2	**2.2**	**2.4**	< 0.5	< 1	< 0.3
PZ-7A	11/29/2016	Shallow Gaspur	Primary	PZ-07A-112916	< 0.5	**1.9**	**20**	< 0.3	**6.1**	< 0.5	**0.5**	**1.6**	**1.1**	< 0.5	**2.1**	< 0.3
PZ-7A	06/07/2017	Shallow Gaspur	Primary	PZ-7A-060717	< 0.5	**0.59**	**8.4**	< 0.3	**1.6**	< 0.5	< 0.2	**0.59**	**0.38 J**	< 0.5	< 1	< 0.3
PZ-7A	12/06/2017	Shallow Gaspur	Primary	PZ-7A-120617	< 0.5	**2.1**	**26**	< 0.3	**4.2**	< 0.5	**0.59**	**1.4**	**1.7**	< 0.5	**2.1**	< 0.3
PZ-7A	06/06/2018	Shallow Gaspur	Primary	PZ-7A-060618	< 0.5	**1.9**	**25**	< 0.3	**5.4**	< 0.5	**0.67 J**	**1.2**	**0.51**	< 0.5	**2.6**	< 0.3
PZ-7A	12/05/2018	Shallow Gaspur	Primary	PZ-07A-120518	< 0.5	**0.86**	**18**	< 0.3	**4.1**	< 0.5	**0.53**	**0.85**	< 0.2	< 0.5	**3**	< 0.3
PZ-7A	06/12/2019	Shallow Gaspur	Primary	PZ-7A-061219	< 0.5	**1.1**	**26**	< 0.4	**5.8**	**0.69**	< 0.2	**1.3**	< 0.4	< 0.3	**3**	< 0.2
PZ-7A	12/04/2019	Shallow Gaspur	Primary	PZ-7A-120419	< 0.5	**0.87**	**22**	< 0.4	**6**	**5**	**0.47 J**	**1.7**	< 0.4	< 0.3	**3.2**	< 0.2
PZ-7A	06/10/2020	Shallow Gaspur	Primary	PZ-7A-061020	< 0.5	**1.2**	**27**	< 0.5	**5.4**	**1.1**	**0.56**	**1.7**	< 0.5	< 0.5	**2.7**	< 0.5
PZ-7A	11/18/2020	Shallow Gaspur	Primary	PZ-7A-111820	< 0.5	**0.36 J**	**3.9**	< 0.5	**3.5**	**6.2**	**0.35 J**	< 0.5	< 0.5	< 0.5	**3.3**	< 0.5
PZ-7A	05/19/2021	Shallow Gaspur	Primary	PZ-07A-051921	< 0.5	**0.94**	**25**	< 0.5	**8.2**	< 0.5	**1.2**	**2.5**	< 0.5	< 0.5	**7.1**	< 0.5
PZ-7A	11/17/2021	Shallow Gaspur	Primary	PZ-7A-111721	< 0.5	< 0.5 J	< 0.5 J	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.8**	< 0.5
PZ-7A	11/17/2021	Shallow Gaspur	Duplicate	QC09-111721	< 0.5 J	< 0.5 J	**6.1 J**	< 0.5	**1.8 J**	< 0.5	**0.25 J**	< 0.5	< 0.5	< 0.5	**6**	< 0.5 J
PZ-7A	06/22/2022	Shallow Gaspur	Primary	PZ-7A-062222	< 0.5	**0.68**	**21**	< 0.5	**7.5**	**1.8**	**0.87**	**1.2**	< 0.5	< 0.5	**6.2**	**0.014**
PZ-7A	12/14/2022	Shallow Gaspur	Primary	PZ-7A-121422	< 0.5 J	**0.74 J+**	**20 J+**	< 0.5	**5.1 J+**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**4.3 J**	**0.017 J**
PZ-7A	05/17/2023	Shallow Gaspur	Primary	PZ-07A-051723	< 0.5	**0.69**	**21**	< 0.5	**5.8**	< 0.5	**0.65**	**1**	< 0.5	< 0.5	**5.4 J**	**0.019 J**
PZ-7A	11/29/2023	Shallow Gaspur	Primary	PZ-07A-112923	< 0.5	**0.53**	**14**	< 0.5	**4.3**	**0.65**	**0.45 J**	**0.8**	< 0.5	< 0.5	**3.1 J**	< 0.025
PZ-7A	05/08/2024	Shallow Gaspur	Primary	PZ-7A-050824	< 0.5	< 0.5	**6**	< 0.5	**1.4**	< 0.5	< 0.5	**0.57 J**	< 0.5	< 0.5	**1.4**	**0.0097**
PZ-7A	11/20/2024	Shallow Gaspur	Primary	PZ-07A-112024	< 0.5	**0.31 J**	**12**	< 0.5	**2.3**	**0.51**	**0.27 J**	**0.91**	< 0.5	< 0.5	< 1	**0.023**
PZ-7B	08/11/2011	Intermediate Gaspur	Primary	PZ-7B-08112011	< 0.5	**5.7**	**27 J**	< 0.5	**3.5**	< 0.5	< 0.5	**3**	**2.6**	< 0.5	**2.1**	< 0.5
PZ-7B	09/27/2011	Intermediate Gaspur	Primary	PZ-7B-09272011	< 0.5	**5**	**39**	< 0.5	**4.3**	< 0.5	< 0.5	**2.9**	**3.2**	< 0.5	< 0.95	< 0.5
PZ-7B	12/07/2011	Intermediate Gaspur	Primary	PZ-7B_20111207	< 0.5	**2.8**	**37**	< 0.5	**4**	< 0.5	< 0.5	**2.8**	**2.8**	< 0.5	**2.1**	< 0.5
PZ-7B	03/27/2012	Intermediate Gaspur	Primary	PZ-7B-03272012	< 0.5	**2.4**	**33**	< 0.5	**4.5**	< 0.5	< 0.5	**2.9**	**2.8**	< 0.5	**1.9 J**	< 0.5
PZ-7B	06/13/2012	Intermediate Gaspur	Primary	PZ-7B-06132012	< 0.5	**1.1 J**	**25**	< 0.5	**2.3**	< 0.5	< 0.5	**2.6**	**2**	< 0.5	**2.1**	< 0.5
PZ-7B	12/13/2012	Intermediate Gaspur	Primary	PZ-7B-12132012	< 0.5	**0.98**	**32**	< 0.5	**3.8**	**0.75**	< 0.5	**3.5**	**2.4**	< 0.5	< 0.95	< 0.5
PZ-7B	12/13/2012	Intermediate Gaspur	Duplicate	DUP7-12132012	< 0.5	**0.98**	**31**	< 0.5	**3.6**	**0.73**	< 0.5	**3.4**	**2.4**	< 0.5	< 0.95	< 0.5
PZ-7B	06/19/2013	Intermediate Gaspur	Primary	PZ-7B-061913	< 0.5	**0.52**	**34**	< 0.3	**5.5**	**0.97**	**0.36 J**	**2.4**	**3**	< 0.5	**2**	< 0.3
PZ-7B	12/11/2013	Intermediate Gaspur	Primary	PZ-7B-121113	< 0.5	**0.67**	**33**	**0.34 J**	**6**	**1**	< 0.2	**1.9**	**3.2**	< 0.5	**1.8 J**	< 0.3
PZ-7B	06/11/2014	Intermediate Gaspur	Primary	PZ-07B-061114	< 0.5	**0.81**	**38**	< 0.3	**6**	**0.76**	< 0.2	**1.5**	**3.8**	< 0.5	**2.1**	< 0.3
PZ-7B	12/17/2014	Intermediate Gaspur	Primary	PZ-7B-121714	< 0.5	**0.54**	**26**	< 0.3	**4.8**	**1.2**	< 0.2	**1.3**	**1.8**	< 0.5	**1.5 J**	< 0.3
PZ-7B	06/10/2015	Intermediate Gaspur	Primary	PZ-07B-061015	< 0.5	**1.3**	**32**	< 0.3	**9.6**	**0.89**	**0.37 J**	**3.4**	**3.6**	< 0.5	< 1	< 0.3

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
PZ-7B	06/10/2015	Intermediate Gaspur	Duplicate	DUP05-061015	< 0.5	**1.5**	**30**	< 0.3	**9.3**	**0.81**	< 0.2	**3.4**	**3.4**	< 0.5	< 1	< 0.3
PZ-7B	12/09/2015	Intermediate Gaspur	Primary	PZ-07B-120915	< 0.5	**1.2**	**38**	< 0.3	**11**	**1.2**	< 0.2	**3.2**	**4.3**	< 0.5	< 1	< 0.3
PZ-7B	06/07/2016	Intermediate Gaspur	Primary	PZ-7B-060716	< 0.5	**0.95**	**27**	**0.3 J**	**9.9**	**0.95**	< 0.2	**2.2**	**3.3**	< 0.5	< 1	< 0.3
PZ-7B	11/29/2016	Intermediate Gaspur	Primary	PZ-07B-112916	< 0.5	**1.8**	**22**	< 0.3	**7.6**	**1.6**	**0.91**	**1.8**	**1.1**	< 0.5	**1.7 J**	< 0.3
PZ-7B	11/29/2016	Intermediate Gaspur	Duplicate	QC01-112916	< 0.5	**1.9**	**24**	< 0.3	**8.4**	**1.6**	**0.85**	**2**	**1.3**	< 0.5	**2**	< 0.3
PZ-7B	06/07/2017	Intermediate Gaspur	Primary	PZ-7B-060717	< 0.5	**0.49 J**	**3.7**	< 0.3	**4**	**8.1**	< 0.2	**1.1**	**1.9**	< 0.5	< 1	< 0.3
PZ-7B	12/06/2017	Intermediate Gaspur	Primary	PZ-7B-120617	< 0.5	**0.6**	**20**	**0.35 J**	**3.7**	< 0.5	**1.1**	**0.76**	< 0.2	< 0.5	**3.8**	< 0.3
PZ-7B	06/06/2018	Intermediate Gaspur	Primary	PZ-7B-060618	< 0.5	**0.53**	**25**	< 0.3	**7.7**	**2**	**2.2**	**1.9**	**0.31 J**	< 0.5	**3.7**	< 0.3
PZ-7B	12/05/2018	Intermediate Gaspur	Primary	PZ-07B-120518	< 0.5	**0.4 J**	**21**	< 0.3	**6.4**	< 0.5	**1.8**	**1.2**	< 0.2	< 0.5	**5.5**	< 0.3
PZ-7B	06/12/2019	Intermediate Gaspur	Primary	PZ-7B-061219	< 0.5	**0.34 J**	**20**	< 0.4	**4.8**	**0.46 J**	**1.2**	< 0.2	< 0.4	< 0.3	**3.8**	< 0.2
PZ-7B	06/12/2019	Intermediate Gaspur	Duplicate	QC10-061219	< 0.5	**0.37 J**	**19**	< 0.4	**4.5**	< 0.4	**1**	< 0.2	< 0.4	< 0.3	**4**	< 0.2
PZ-7B	12/04/2019	Intermediate Gaspur	Primary	PZ-7B-120419	< 0.5	< 0.3	**3.5**	< 0.4	**4.4**	**12**	**0.78**	**1.3**	**1**	< 0.3	**3.6**	< 0.2
PZ-7B	06/10/2020	Intermediate Gaspur	Primary	PZ-7B-061020	< 0.5	**0.95**	**19**	< 0.5	**4.7**	< 0.5	**1.5**	**1.9**	< 0.5	< 0.5	**4.8**	< 0.5
PZ-7B	11/18/2020	Intermediate Gaspur	Primary	PZ-7B-111820	< 0.5	**0.42 J**	**7**	< 0.5	**3.5**	**4.1**	**0.98**	**1.2**	**0.83**	< 0.5	**4.1**	< 0.5
PZ-7B	05/19/2021	Intermediate Gaspur	Primary	PZ-07B-051921	< 0.5	**0.92**	**20**	< 0.5	**5**	< 0.5	**1.2**	**1.5**	< 0.5	< 0.5	**6.6**	< 0.5
PZ-7B	11/17/2021	Intermediate Gaspur	Primary	PZ-7B-111721	< 0.5	**0.34 J**	**21**	< 0.5	**5.7**	**0.91**	**1.2**	**1.1 J+**	< 0.5	< 0.5	**5.4**	< 0.5
PZ-7B	06/22/2022	Intermediate Gaspur	Primary	PZ-7B-062222	< 0.5	**1.5**	**13**	< 0.5	**2.8**	**0.73**	**0.37 J**	**0.94**	< 0.5	< 0.5	**3.3**	**0.017**
PZ-7B	12/14/2022	Intermediate Gaspur	Primary	PZ-7B-121422	< 0.5 J	< 0.5	**15 J+**	< 0.5	**4.4 J+**	< 0.5	< 0.5	**1.2 J+**	< 0.5	< 0.5	**4.4**	< 0.005
PZ-7B	05/17/2023	Intermediate Gaspur	Primary	PZ-07B-051723	< 0.5	**0.46 J**	**7.3**	< 0.5	**1.9**	**3.4**	**0.3 J**	**0.96**	< 0.5	< 0.5	**2.5 J**	**0.016**
PZ-7B	11/29/2023	Intermediate Gaspur	Primary	PZ-07B-112923	< 0.5	**0.67**	**13**	< 0.5	**3.4**	**1.1**	**0.75**	**0.82**	< 0.5	< 0.5	**4.9 J**	**0.012**
PZ-7B	05/08/2024	Intermediate Gaspur	Primary	PZ-7B-050824	< 0.5	< 0.5	**5.2**	< 0.5	**2.2**	**0.91**	**0.24 J**	**0.39 J**	< 0.5	< 0.5	**2.8**	**0.0059**
PZ-7B	11/20/2024	Intermediate Gaspur	Primary	PZ-07B-112024	< 0.5	**0.63**	**9.9**	< 0.5	**1.8**	**2.3**	**0.34 J**	**1**	< 0.5	< 0.5	**2**	**0.017**
SAIA-MW1A	03/27/2014	Shallow Gaspur	Primary	SAIA-MW1A-0314	< 100	**7400 J**	**3300**	< 100	**71 J**	< 100	**21 J**	< 100	< 100	< 100	**1.6 J**	< 100
SAIA-MW1A	08/25/2014	Shallow Gaspur	Primary	SAIA-MW1A-0814	**0.42 J**	**4800**	**6900**	**16**	**96 J**	< 360	**17**	< 0.5	**0.29 J**	< 0.5	**1.4**	< 0.5
SAIA-MW1A	07/14/2016	Shallow Gaspur	Primary	SAIA-MW1A-0716	< 25	**1500**	**3900**	< 25	**160**	< 25	**22 J**	< 25	< 25	< 25	< 0.5	< 25
SAIA-MW1B	03/27/2014	Intermediate Gaspur	Primary	SAIA-MW1B-0314	< 0.5	**17**	**59**	< 0.5	**4.6**	< 0.5	**0.25**	**0.48 J**	< 0.5	< 0.5	**1.9**	< 0.5
SAIA-MW1B	08/25/2014	Intermediate Gaspur	Primary	SAIA-MW1B-0814	< 0.5	**4.3**	**51**	< 0.5	**4.6**	< 0.5	**0.19 J**	**0.52**	< 0.5	**0.097 J**	**2.6**	< 0.5
SAIA-MW1B	07/14/2016	Intermediate Gaspur	Primary	SAIA-MW1B-0716	< 0.5	**0.84**	**14**	< 0.5	**2**	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW1B	07/14/2016	Intermediate Gaspur	Duplicate	SAIA-MW91B-0716	< 0.5	**0.82**	**15**	< 0.5	**2.5**	< 0.5	< 0.5	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW1B	12/16/2022	Intermediate Gaspur	Primary	SAIA-MW-1B-121622	< 0.5 J	< 0.5	**51**	**0.66**	**3.3**	**0.41 J**	**0.78**	**1**	< 0.5	< 0.5	**7.1**	**0.011**
SAIA-MW1B	12/16/2022	Intermediate Gaspur	Duplicate	QC19-121622	< 0.5	**0.6**	**44**	**0.74**	**3.8**	< 0.5	**0.8**	**1.2**	< 0.5	< 0.5	**6.9**	**0.011**
SAIA-MW1C	03/27/2014	Lower Gaspur	Primary	SAIA-MW1C-0314	< 4	**420 J**	**370**	< 4	**34**	< 4	**3.9 J**	**35**	< 4	< 4	**18**	< 4
SAIA-MW1C	08/25/2014	Lower Gaspur	Primary	SAIA-MW1C-0814	< 0.5	**210**	**560**	**6.5**	**47**	**1.4**	**4.2**	**52**	**3.7**	**0.1 J**	**22**	< 0.5
SAIA-MW1C	07/14/2016	Lower Gaspur	Primary	SAIA-MW1C-0716	< 0.5	**4.4**	**350**	**5.3**	**27**	**18**	**2.6**	**33**	**3.2**	< 0.5	**7.3**	< 0.5
SAIA-MW1C	12/16/2022	Lower Gaspur	Primary	SAIA-MW-1C-121622	< 0.5	< 0.5	**910**	**8.5**	**30**	**13**	**6**	**12**	**1.8**	< 0.5	**46**	**0.067**
SAIA-MW2A	03/27/2014	Shallow Gaspur	Primary	SAIA-MW2A-0314	< 10	**1100 J**	**2000**	< 10	**74**	< 10	**4.8 J**	< 10	< 10	< 10	**12**	< 10
SAIA-MW2A	08/25/2014	Shallow Gaspur	Primary	SAIA-MW2A-0814	< 0.5	**1300**	**2500**	**7.7**	**110 J**	**5.5**	**7.2**	**0.25 J**	**0.35 J**	< 0.5	**16**	< 0.5
SAIA-MW2A	08/25/2014	Shallow Gaspur	Duplicate	SAIA-MW92A-0814	< 0.5	**1300**	**2400**	**7.7**	**120 J**	**5.3**	**7**	< 0.5	**0.35 J**	< 0.5	**15**	< 0.5
SAIA-MW2A	07/11/2016	Shallow Gaspur	Primary	SAIA-MW2A-0716	< 2.5	**120**	**1300**	**6.4**	**85**	< 2.5	**5.5**	< 2.5	< 2.5	< 2.5	**5.3**	< 2.5
SAIA-MW2B	03/27/2014	Intermediate Gaspur	Primary	SAIA-MW2B-0314	< 0.5	**6.8 J**	**69**	< 0.5	**7.2**	< 0.5	< 0.5	**6.6**	< 0.5	< 0.5	**1.7**	< 0.5
SAIA-MW2B	08/25/2014	Intermediate Gaspur	Primary	SAIA-MW2B-0814	< 0.5	**2.8**	**51**	**0.5**	**5.9**	**0.75**	**0.11 J**	**5.1**	**0.2 J**	**0.23 J**	**1.3**	< 0.5
SAIA-MW2B	07/11/2016	Intermediate Gaspur	Primary	SAIA-MW2B-0716	< 0.5	**0.57**	**10**	< 0.5	**1.5**	< 0.5	< 0.5	**0.81**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW2B	12/16/2022	Intermediate Gaspur	Primary	SAIA-MW-2B-121622	< 0.5	< 0.5	**33**	**0.58**	**2.3**	< 0.5	**0.31 J**	**0.52**	< 0.5	< 0.5	**8**	**0.042**

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
SAIA-MW2C	03/27/2014	Lower Gaspur	Primary	SAIA-MW2C-0314	< 2	**260 J**	**360**	**4.7**	**28**	< 2	**3**	**32**	**6.1**	**0.19**	**14**	< 2
SAIA-MW2C	08/25/2014	Lower Gaspur	Primary	SAIA-MW2C-0814	< 0.5	**200**	**370**	**5.2**	**33**	**3.3**	**2.8**	**34**	**4.7**	< 0.5	**20**	< 0.5
SAIA-MW2C	07/11/2016	Lower Gaspur	Primary	SAIA-MW2C-0716	< 0.5	**4.7**	**270 J**	**3.5 J**	**19 J**	**0.87**	**1.8**	**33**	**2.2**	< 0.5	**15**	< 0.5
SAIA-MW2C	12/16/2022	Lower Gaspur	Primary	SAIA-MW-2C-121622	< 0.5	**1.1**	**950**	**8.7**	**32**	**60**	**4.9**	**12**	**1.2**	< 0.5	**48**	**0.05**
SAIA-MW3A	03/24/2014	Shallow Gaspur	Primary	SAIA-MW3A-0314	< 0.5	**9.2**	**8.9**	< 0.5	**0.2**	< 0.5	**0.13**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW3A	08/26/2014	Shallow Gaspur	Primary	SAIA-MW3A-0814	< 0.5	**3.6**	**5.8**	< 0.5	**0.15 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.46	< 0.5
SAIA-MW3A	07/13/2016	Shallow Gaspur	Primary	SAIA-MW3A-0716	< 0.5	**0.29 J**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW3A	12/15/2022	Shallow Gaspur	Primary	SAIA-MW-3A-121522	< 0.5	**370**	**4300**	**8.7 J**	**120**	**4**	**17**	< 0.5	< 0.5	< 0.5	**4.6**	< 0.005
SAIA-MW3B	03/24/2014	Intermediate Gaspur	Primary	SAIA-MW3B-0314	< 25	**6700 J**	**7000**	**18 J**	**120**	< 25	**49**	< 25	< 25	< 25	**110**	< 25
SAIA-MW3B	08/26/2014	Intermediate Gaspur	Primary	SAIA-MW3B-0814	< 0.5	**6600**	**9100**	**20**	**230 J**	**47**	**72**	**2.1**	**1.5**	< 0.5	**86**	< 0.5
SAIA-MW3B	07/13/2016	Intermediate Gaspur	Primary	SAIA-MW3B-0716	< 25	**3500**	**4600**	< 25	**340**	< 25	**23 J**	< 25	< 25	< 25	**3.9**	< 25
SAIA-MW3B	12/15/2022	Intermediate Gaspur	Primary	SAIA-MW-3B-121522	< 0.5	**3.7**	**2100**	**4.3 J**	**250**	**93**	**14**	< 0.5	< 0.5	< 0.5	**1.1 J**	< 0.005
SAIA-MW3C	03/24/2014	Lower Gaspur	Primary	SAIA-MW3C-0314	< 0.5	**2.1**	**38**	< 0.5	**2.5**	< 0.5	**0.2**	**1.8**	< 0.5	**0.23**	**1.5**	< 0.5
SAIA-MW3C	03/24/2014	Lower Gaspur	Duplicate	SAIA-MW93C-0314	< 0.5	**2**	**37**	< 0.5	**2.5**	< 0.5	**0.2**	**1.6**	< 0.5	**0.25**	**1.6**	< 0.5
SAIA-MW3C	08/26/2014	Lower Gaspur	Primary	SAIA-MW3C-0814	< 0.5	**6**	**27**	< 0.5	**2.6**	**6.1**	**0.25 J**	**2.1**	**0.085 J**	**0.27 J**	< 0.46	< 0.5
SAIA-MW3C	07/13/2016	Lower Gaspur	Primary	SAIA-MW3C-0716	< 0.5	**5.7**	**49**	< 0.5	**5.4**	< 0.5	**0.51**	**2.8**	< 0.5	< 0.5	**6.1**	< 0.5
SAIA-MW3C	12/19/2022	Lower Gaspur	Primary	SAIA-MW-3C-121922	< 0.5	< 0.5	**67**	**0.93**	**5.6**	**0.9**	**0.5**	**11**	< 0.5	< 0.5	**4.2**	**0.11**
SAIA-MW4A	03/25/2014	Shallow Gaspur	Primary	SAIA-MW4A-0314	< 0.5	**0.53**	**4.7**	< 0.5	**0.19**	< 0.5	**0.32**	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5
SAIA-MW4A	08/26/2014	Shallow Gaspur	Primary	SAIA-MW4A-0814	< 0.5	**0.19 J**	**0.72**	< 0.5	< 0.5	< 0.5	**0.34 J**	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5
SAIA-MW4A	07/22/2016	Shallow Gaspur	Primary	SAIA-MW4A-0716	< 0.5	< 0.5	**0.16 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW4A	12/15/2022	Shallow Gaspur	Primary	SAIA-MW-4A-121522	< 0.5	**1.2**	**620**	**2**	**96**	**0.7**	**5.6 J**	< 0.5	< 0.5	< 0.5	**7.7**	< 0.005
SAIA-MW4B	03/25/2014	Intermediate Gaspur	Primary	SAIA-MW4B-0314	< 25	**790**	**4200**	< 25	**130**	< 25	**15 J**	< 25	< 25	< 25	**58**	< 25
SAIA-MW4B	08/26/2014	Intermediate Gaspur	Primary	SAIA-MW4B-0814	< 0.5	**150 J**	**4800**	**6.6**	**180 J**	**6.5**	**18**	**0.72**	**0.55**	< 0.5	**60**	< 0.5
SAIA-MW4B	08/26/2014	Intermediate Gaspur	Duplicate	SAIA-MW94B-0814	< 0.5	**150 J**	**4800**	**6.6**	**180 J**	**6.5**	**18**	**0.69**	**0.55**	< 0.5	**59**	< 0.5
SAIA-MW4B	07/22/2016	Intermediate Gaspur	Primary	SAIA-MW4B-0716	< 10	**6.6 J**	**4200**	< 10	**210**	< 10	**16**	< 10	< 10	< 10	**62 J**	< 10
SAIA-MW4B	12/15/2022	Intermediate Gaspur	Primary	SAIA-MW-4B-121522	< 0.5	**6.7**	**7700**	**17**	**650**	**48 J**	**43 J**	< 0.5	**0.65**	< 0.5	**38**	< 0.005
SAIA-MW4C	03/25/2014	Lower Gaspur	Primary	SAIA-MW4C-0314	< 10	**3.9 J**	**910**	< 10	**53**	< 10	**3.6 J**	< 10	< 10	< 10	**14**	< 10
SAIA-MW4C	08/26/2014	Lower Gaspur	Primary	SAIA-MW4C-0814	< 0.5	**3.4**	**910**	**1.3**	**73**	**11**	**4.1**	**2.1**	**0.19 J**	**0.3 J**	**11**	< 0.5
SAIA-MW4C	07/22/2016	Lower Gaspur	Primary	SAIA-MW4C-0716	< 2.5	**2.7**	**870**	< 2.5	**120**	**45**	**5.9**	**2 J**	< 2.5	< 2.5	**7.7**	< 2.5
SAIA-MW4C	12/15/2022	Lower Gaspur	Primary	SAIA-MW-4C-121522	< 0.5	< 0.5	**25**	< 0.5	**22**	**40**	**0.51**	< 0.5	< 0.5	< 0.5	**1.4 J**	**0.0056**
SAIA-MW5A	03/25/2014	Shallow Gaspur	Primary	SAIA-MW5A-0314	< 5	**1.8 J**	**530**	< 5	**21**	< 5	< 5	< 5	< 5	< 5	**2.4**	< 5
SAIA-MW5A	08/27/2014	Shallow Gaspur	Primary	SAIA-MW5A-0814	< 0.5	**1.9**	**520**	**0.89**	**24 J**	**0.72**	**0.42 J**	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5
SAIA-MW5A	07/20/2016	Shallow Gaspur	Primary	SAIA-MW5A-0716	< 0.5	**1.3**	**210**	< 0.5	**19**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5
SAIA-MW5A	07/20/2016	Shallow Gaspur	Duplicate	SAIA-MW95A-0716	< 0.5	**1.2**	**220**	**0.66**	**17**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3**	< 0.5
SAIA-MW5B	03/25/2014	Intermediate Gaspur	Primary	SAIA-MW5B-0314	< 25	**380**	**3100**	< 25	**98**	< 25	< 25	< 25	< 25	< 25	**16**	< 25
SAIA-MW5B	08/27/2014	Intermediate Gaspur	Primary	SAIA-MW5B-0814	< 0.5	**99 J**	**3600**	**5.5**	**120 J**	**4.5**	**9.5**	**0.52**	**0.36 J**	< 0.5	**23**	< 0.5
SAIA-MW5B	07/21/2016	Intermediate Gaspur	Primary	SAIA-MW5B-0716	< 2.5	**3**	**2100**	< 2.5	**79**	**20**	**6.5**	< 2.5	< 2.5	< 2.5	**30 J**	< 2.5
SAIA-MW5C	03/25/2014	Lower Gaspur	Primary	SAIA-MW5C-0314	< 4	**6.5**	**300**	< 4	**21**	< 4	< 4	**2 J**	< 4	< 4	**3.4**	< 4
SAIA-MW5C	08/27/2014	Lower Gaspur	Primary	SAIA-MW5C-0814	< 0.5	**4.8**	**320**	**0.8**	**25**	< 0.5	**0.64**	**1.9**	**0.18 J**	**0.26 J**	**3.2**	< 0.5
SAIA-MW5C	07/21/2016	Lower Gaspur	Primary	SAIA-MW5C-0716	< 0.5	**1.6**	**95**	< 0.5	**11**	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	**2.4**	< 0.5
SAIA-MW6A	03/24/2014	Shallow Gaspur	Primary	SAIA-MW6A-0314	< 0.5	**0.087**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6A	08/27/2014	Shallow Gaspur	Primary	SAIA-MW6A-0814	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.53**	< 0.5
SAIA-MW6A	07/20/2016	Shallow Gaspur	Primary	SAIA-MW6A-0716	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
SAIA-MW6B	03/24/2014	Intermediate Gaspur	Primary	SAIA-MW6B-0314	< 0.5	**3.7**	**13**	< 0.5	**3.9**	< 0.5	< 0.5	**0.12**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW6B	08/27/2014	Intermediate Gaspur	Primary	SAIA-MW6B-0814	< 0.5	**3.6**	**14**	< 0.5	**5.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.26 J**	< 0.5
SAIA-MW6B	07/20/2016	Intermediate Gaspur	Primary	SAIA-MW6B-0716	< 0.5	**2.7**	**14**	< 0.5	**3.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW6C	03/24/2014	Lower Gaspur	Primary	SAIA-MW6C-0314	< 0.5	**2**	**17**	< 0.5	**2.3**	< 0.5	< 0.5	**0.2**	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6C	08/27/2014	Lower Gaspur	Primary	SAIA-MW6C-0814	< 0.5	**2.4**	**21**	< 0.5	**2.8**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6C	07/20/2016	Lower Gaspur	Primary	SAIA-MW6C-0716	< 0.5	**2**	**17**	< 0.5	**2.9**	**1.2**	< 0.5	**0.31 J**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW7	03/27/2014	Exposition	Primary	SAIA-MW7-0314	< 0.5	**24 J**	**16**	< 0.5	**1.1**	< 0.5	**0.3**	**0.96**	< 0.5	< 0.5	**1.9**	< 0.5
SAIA-MW7	03/27/2014	Exposition	Duplicate	SAIA-MW97-0314	< 0.5	**22 J**	**17**	< 0.5	**1.1**	< 0.5	**0.37**	**1.1**	< 0.5	< 0.5	**2**	< 0.5
SAIA-MW7	08/25/2014	Exposition	Primary	SAIA-MW7-0814	< 0.5	**22**	**57**	**0.65**	**2.5**	**1.3**	**0.67**	**1.6**	**0.14 J**	< 0.5	**3.6**	< 0.5
SAIA-MW7	07/11/2016	Exposition	Primary	SAIA-MW7-0716	< 0.5	**19**	**73**	< 0.5	**4.8**	< 0.5	**0.84**	**2.9**	< 0.5	< 0.5	**7.9**	< 0.5
SAIA-MW7	12/19/2022	Exposition	Primary	SAIA-MW-7-121922	< 0.5	**240**	**870**	**6**	**20**	**2**	**5.1**	**3.5**	**0.4 J**	< 0.5	**36**	**0.031**
SAIA-MW8	03/24/2014	Exposition	Primary	SAIA-MW8-0314	< 0.5	**0.53**	**0.83**	< 0.5	**0.08**	< 0.5	< 0.5	**0.18**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW8	08/25/2014	Exposition	Primary	SAIA-MW8-0814	< 0.5	**3.9**	**1.9**	< 0.5	**0.2 J**	< 0.5	< 0.5	**0.62**	< 0.5	< 0.5	**0.16 J**	< 0.5
SAIA-MW8	07/21/2016	Exposition	Primary	SAIA-MW8-0716	< 0.5	**1.3**	**2.2**	< 0.5	**0.31 J**	< 0.5	< 0.5	**0.78**	< 0.5	< 0.5	< 0.5	< 0.5
JWMW-01	06/20/2011	Shallow Gaspur	Primary	JWMW-01-062011-N	**31**	**12000**	**170**	**27**	**15**	< 5	**16**	< 5	< 5	< 5	**54**	< 5
JWMW-01	12/13/2011	Shallow Gaspur	Primary	JERVIS WEBB MW-1	**26**	**9900**	**660**	**44**	< 25	< 25	**34**	< 25	< 25	< 25	**43 J**	< 25
JWMW-01	12/13/2011	Shallow Gaspur	Duplicate	DUP7-121311	**27**	**8900**	**580**	**34**	**21**	< 20	**26**	< 20	< 20	< 20	**46 J**	< 20
JWMW-01	05/04/2017	Shallow Gaspur	Primary	JWMW-01-050417-N	**100**	**25000**	**300**	**110**	**42 J**	< 100	**71 J**	< 100	< 100	< 100	**64 J**	< 100
JWMW-01	05/04/2017	Shallow Gaspur	Duplicate	JWMW-01-050417-FD	**88 J**	**23000**	**270**	**100**	**38 J**	< 100	**63 J**	< 100	< 100	< 100	**71 J**	< 100
JWMW-02	06/14/2011	Shallow Gaspur	Primary	JWMW-02-061411-N	< 0.5	**770**	**45**	**15**	**2.5**	**0.7**	**2**	< 0.5	< 0.5	< 0.5	**1.7 J**	< 0.5
JWMW-02	05/02/2017	Shallow Gaspur	Primary	JWMW-02-050217-N	**0.61**	**110**	**32**	**18**	**2.7**	**1.1**	**5**	**2.3**	**0.58**	< 0.5	**8.2**	< 0.5
JWMW-03	06/14/2011	Shallow Gaspur	Primary	JWMW-03-061411-N	< 0.5	**52**	**36**	**9.6**	**1.9**	**0.6**	**2.3**	**1.9**	**3.3**	< 0.5	**5.9**	< 0.5
JWMW-03	05/04/2017	Shallow Gaspur	Primary	JWMW-03-050417-N	< 0.5	**180**	**18 J**	**7.8 J**	**2.9 J**	**0.73**	**2.9**	< 0.5	< 0.5	< 0.5	**9.6**	< 0.5
JWMW-04	06/14/2011	Shallow Gaspur	Primary	JWMW-04-061411-N	< 0.5	**2400**	**250**	**19**	**16**	**0.9**	**11**	**0.3 J**	< 0.5	< 0.5	**130**	< 0.5
JWMW-04	11/28/2016	Shallow Gaspur	Primary	JWMW-04-112816-N	< 10	**490**	**2400**	**26**	**38**	< 10	**12**	< 10	< 10	< 10	**26 J 19**	< 10
JWMW-04	05/01/2017	Shallow Gaspur	Primary	JWMW-04-050117-N	< 10	**1100**	**2400**	**21**	**37**	< 10	**10**	< 10	< 10	< 10	**21 J**	< 10
JWMW-04	02/24/2023	Shallow Gaspur	Primary	JWMW-04-022423	< 0.5	**0.64**	**49**	**0.56**	**0.93**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.6 J**	< 0.05
JWMW-04	02/24/2023	Shallow Gaspur	Duplicate	QC02-022423	< 0.5	**0.76**	**52**	**0.62**	**0.86**	< 0.5	**0.29 J**	< 0.5	< 0.5	< 0.5	**1.7 J**	< 0.05
JWMW-05	06/14/2011	Shallow Gaspur	Primary	JWMW-05-061411-N	< 0.5	**2900**	**180**	**24**	**22**	**1.7**	**17**	**0.4 J**	< 0.5	< 0.5	**62**	< 0.5
JWMW-05	06/13/2012	Shallow Gaspur	Primary	ERVIS WEBB-MW-5-06131	< 20	**3700**	**160**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**53**	< 20
JWMW-05	11/30/2016	Shallow Gaspur	Primary	JWMW-05-113016-N	< 10	**2400**	**260**	**21**	**21**	< 10	**10**	< 10	< 10	< 10	**19 J 16 J**	< 10
JWMW-05	05/01/2017	Shallow Gaspur	Primary	JWMW-05-050117-N	< 10	**1800**	**270**	**16**	**17**	< 10	**8 J**	< 10	< 10	< 10	**14 J**	< 10
JWMW-05	12/20/2022	Shallow Gaspur	Primary	JWMW-05-122022	< 0.5	**1.5**	**280**	**8**	**5.4**	**2.6**	**3**	**0.37 J**	< 0.5	< 0.5	**62**	**0.055**
JWMW-05	12/20/2022	Shallow Gaspur	Duplicate	QC28-122022	< 0.5	**1.4**	**290 J**	**7.2**	**4.8**	**2.6**	**2.8**	**0.37 J**	< 0.5	< 0.5	**59**	**0.062**
JWMW-06A	12/02/2016	Shallow Gaspur	Primary	JWMW-06A-120216-N	< 0.5	**0.59**	**2.1**	**2.1**	< 0.5	**0.39 J**	**3.1**	< 0.5	< 0.5	< 0.5	**5.6 7.1**	< 0.5
JWMW-06A	05/03/2017	Shallow Gaspur	Primary	JWMW-06A-050317-N	< 0.5	**1.2**	**2.4**	**2.6**	< 0.5	**0.37 J**	**3**	< 0.5	< 0.5	< 0.5	**5.7**	< 0.5
JWMW-06A	12/21/2022	Shallow Gaspur	Primary	JWMW-06A-122122	< 0.5	**0.93 J+**	**2 J+**	**1.2 J+**	< 0.5	< 0.5	**1.7 J+**	< 0.5	< 0.5	< 0.5	**15**	**0.053**
JWMW-06B	12/02/2016	Intermediate Gaspur	Primary	JWMW-06B-120216-N	< 0.5	**1.6**	**3**	**0.58**	< 0.5	**0.24 J**	**0.61**	**0.24 J**	< 0.5	< 0.5	**0.86 1.2 J**	< 0.5
JWMW-06B	05/03/2017	Intermediate Gaspur	Primary	JWMW-06B-050317-N	< 0.5	**1.2**	**3.2**	**0.85**	< 0.5	**0.34 J**	**0.89**	< 0.5	< 0.5	< 0.5	**1.4**	< 0.5
JWMW-06B	12/21/2022	Intermediate Gaspur	Primary	JWMW-06B-122122	< 0.5	**1.4**	**2.8**	**6.4**	< 0.5	**1.2**	**4**	< 0.5	< 0.5	< 0.5	**20**	**0.076**
JWMW-06C	12/02/2016	Lower Gaspur	Primary	JWMW-06C-120216-N	< 0.5	**0.24 J**	**0.56**	< 0.5	< 0.5	< 0.5	< 0.5	**7.5**	< 0.5	< 0.5	**0.57 0.64 J**	< 0.5
JWMW-06C	05/03/2017	Lower Gaspur	Primary	JWMW-06C-050317-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.34 J**	NA
JWMW-06C	05/22/2017	Lower Gaspur	Primary	JWMW-06C-052217-N	< 0.5	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	< 0.5	**4.7**	< 0.5	< 0.5	NA	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
JWMW-06C	12/21/2022	Lower Gaspur	Primary	JWMW-06C-122122	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.6**	< 0.5	< 0.5	**0.76 J**	**0.058**
JWMW-07A	12/02/2016	Shallow Gaspur	Primary	JWMW-07A-120216-N	< 0.5	**200**	**9.9 J**	**10 J**	**1.3 J**	**1**	**4.1**	< 0.5	< 0.5	< 0.5	**12 17**	< 0.5
JWMW-07A	05/03/2017	Shallow Gaspur	Primary	JWMW-07A-050317-N	< 0.5	**130**	**52**	**8.4**	**1.2**	**1.2**	**3.6**	< 0.5	< 0.5	< 0.5	**15**	< 0.5
JWMW-07B	12/02/2016	Intermediate Gaspur	Primary	JWMW-07B-120216-N	< 0.5	**0.23 J**	**0.26 J**	< 0.5	< 0.5	< 0.5	< 0.5	**5.5**	< 0.5	< 0.5	< 0.48 < 1.9	< 0.5
JWMW-07B	05/03/2017	Intermediate Gaspur	Primary	JWMW-07B-050317-N	< 0.5	< 0.5	**0.25 J**	**0.23 J**	< 0.5	**0.16 J**	< 0.5	**5.2**	< 0.5	< 0.5	**0.37 J**	< 0.5
JWMW-07B	12/21/2022	Intermediate Gaspur	Primary	JWMW-07B-122122	< 0.5	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	< 0.5	**5.1**	< 0.55	< 0.5	**1.3 J**	**0.17**
JWMW-07C	12/01/2016	Lower Gaspur	Primary	JWMW-07C-120116-N	< 0.5	**0.24 J**	**0.62**	< 0.5	< 0.5	< 0.5	< 0.5	**6.1**	< 0.5	< 0.5	**0.71 0.82 J**	< 0.5
JWMW-07C	12/01/2016	Lower Gaspur	Duplicate	JWMW-07C-120116-FD	< 0.5	**0.26 J**	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	**6.2**	< 0.5	< 0.5	**0.68 0.79 J**	< 0.5
JWMW-07C	05/03/2017	Lower Gaspur	Primary	JWMW-07C-050317-N	< 0.5	**0.27 J**	**0.68**	**0.2 J**	< 0.5	< 0.5	**0.12 J**	**4.4**	< 0.5	< 0.5	**0.59**	< 0.5
JWMW-07C	12/21/2022	Lower Gaspur	Primary	JWMW-07C-122122	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	< 0.5	**0.31 J**	**1**	< 0.5	< 0.5	**2.4**	**0.049**
JWMW-08A	11/30/2016	Shallow Gaspur	Primary	JWMW-08A-113016-N	< 0.5	**40**	**32**	**0.8**	**2.6**	**0.23 J**	< 0.5	**2.9**	< 0.5	< 0.5	**0.53 < 1.9**	< 0.5
JWMW-08A	05/02/2017	Shallow Gaspur	Primary	JWMW-08A-050217-N	< 0.5	**18**	**33**	**0.59**	**2.1**	< 0.5	**0.12 J**	**4.1**	< 0.5	< 0.5	**0.34 J**	< 0.5
JWMW-08A	12/20/2022	Shallow Gaspur	Primary	JWMW-08A-122022	< 0.5	**0.62**	**6.6**	< 0.5	< 0.5	< 0.5	< 0.5	**3.2**	< 0.5	< 0.5	**1.4 J**	**0.034 J**
JWMW-08B	11/30/2016	Intermediate Gaspur	Primary	JWMW-08B-113016-N	< 0.5	**3.1**	**2.2**	< 0.5	< 0.5	< 0.5	< 0.5	**4.4**	< 0.5	**0.28 J**	**0.48 0.6 J**	< 0.5
JWMW-08B	11/30/2016	Intermediate Gaspur	Duplicate	JWMW-08B-113016-FD	< 0.5	**2.9**	**2.1**	< 0.5	< 0.5	< 0.5	< 0.5	**4.2**	< 0.5	**0.22 J**	**0.51 0.6 J**	< 0.5
JWMW-08B	05/02/2017	Intermediate Gaspur	Primary	JWMW-08B-050217-N	< 0.5	**0.61**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**4.5**	< 0.5	< 0.5	**0.43**	< 0.5
JWMW-08B	05/02/2017	Intermediate Gaspur	Duplicate	JWMW-08B-050217-FD	< 0.5	**0.61**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**4.6**	< 0.5	< 0.5	**0.4**	< 0.5
JWMW-08B	12/16/2022	Intermediate Gaspur	Primary	JWMW-08B-121622	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.9**	< 0.5	< 0.5	**1.1 J**	**0.013**
JWMW-08B	12/16/2022	Intermediate Gaspur	Duplicate	QC21-121622	< 0.5	< 0.5	**0.34 J**	< 0.5	< 0.5	< 0.5	< 0.5	**3**	< 0.5	< 0.5	**1.1 J**	**0.017**
JWMW-08C	11/30/2016	Lower Gaspur/Exp	Primary	JWMW-08C-113016-N	< 0.5	**1.4**	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	**8**	**0.52**	**0.33 J**	**0.53 0.63 J**	< 0.5
JWMW-08C	05/02/2017	Lower Gaspur/Exp	Primary	JWMW-08C-050217-N	< 0.5	**0.34 J**	**0.69**	< 0.5	< 0.5	< 0.5	< 0.5	**8.7**	**0.31 J**	**0.27 J**	**0.37 J**	NA
JWMW-08C	12/16/2022	Lower Gaspur/Exp	Primary	JWMW-08C-121622	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	**0.068**
JWMW-09A	11/28/2016	Shallow Gaspur	Primary	JWMW-09A-112816-N	< 25	**44**	**3400**	**35**	**79**	< 25	**20 J**	< 25	< 25	< 25	**34 24**	< 25
JWMW-09A	05/01/2017	Shallow Gaspur	Primary	JWMW-09A-050117-N	< 25	**120**	**3100**	**37**	**64**	< 25	**16 J**	< 25	< 25	< 25	**27**	< 25
JWMW-09A	02/24/2023	Shallow Gaspur	Primary	JWMW-09A-022423	< 0.5	< 0.5	**19**	< 0.5	**0.57**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.05
JWMW-09B	11/28/2016	Intermediate Gaspur	Primary	JWMW-09B-112816-N	< 0.5	**4.1**	**7.9**	**0.35 J**	**0.43 J**	< 0.5	**0.17 J**	< 0.5	< 0.5	< 0.5	< 0.51 < 1.9	< 0.5
JWMW-09B	05/01/2017	Intermediate Gaspur	Primary	JWMW-09B-050117-N	< 0.5	**2.5**	**19**	**0.6**	**0.82**	**0.26 J**	**0.32 J**	< 0.5	< 0.5	< 0.5	**0.19 J**	< 0.5
JWMW-09B	02/24/2023	Intermediate Gaspur	Primary	JWMW-09B-022423	< 0.5	**1.7**	**60**	**0.88**	**1.3**	**0.72**	**0.88**	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.005
JWMW-09C	11/28/2016	Lower Gaspur	Primary	JWMW-09C-112816-N	< 0.5	**0.61**	**1.7**	**0.23 J**	< 0.5	< 0.5	< 0.5	**11**	**0.16 J**	< 0.5	< 0.64 < 1.9	**0.22 J**
JWMW-09C	05/01/2017	Lower Gaspur	Primary	JWMW-09C-050117-N	< 0.5	**0.37 J**	**2**	< 0.5	< 0.5	**0.15 J**	< 0.5	**9.2**	< 0.5	**0.18 J**	**0.52 J**	< 0.5
JWMW-09C	02/24/2023	Lower Gaspur	Primary	JWMW-09C-022423	< 0.5	**0.43 J**	**0.42 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	< 2	**0.043**
JWMW-10	11/28/2016	Exposition	Primary	JWMW-10-112816-N	< 0.5	**0.32 J**	**0.29 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.96**	< 0.5	< 0.5	< 0.48 < 1.9	< 0.5
JWMW-10	05/01/2017	Exposition	Primary	JWMW-10-050117-N	< 0.5	< 0.5	**0.29 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.73**	< 0.5	< 0.5	**0.13 J**	< 0.5
JWMW-10	02/24/2023	Exposition	Primary	JWMW-10-022423	< 0.5	**0.49 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.005
JWMW-11A	11/29/2016	Shallow Gaspur	Primary	JWMW-11A-112916-N	< 0.5	**21**	**72**	**1.8**	**2.3**	**0.4 J**	**0.45 J**	**0.62**	< 0.5	< 0.5	**3.6 4.8**	< 0.5
JWMW-11A	05/04/2017	Shallow Gaspur	Primary	JWMW-11A-050417-N	< 5	**4.6 J**	**140**	**2.4 J**	**2.9 J**	< 5	< 5	< 5	< 5	< 5	**4**	< 5
JWMW-11B	11/29/2016	Intermediate Gaspur	Primary	JWMW-11B-112916-N	< 10	**3.6 J**	**1600**	**17**	**38**	< 10	**8.3 J**	< 10	**2.8 J**	< 10	**43 41**	< 10
JWMW-11B	11/29/2016	Intermediate Gaspur	Duplicate	JWMW-11B-112916-FD	< 10	**2.8 J**	**1600**	**17**	**39**	< 10	**8.2 J**	< 10	**2.7 J**	< 10	**44 30**	< 10
JWMW-11B	05/04/2017	Intermediate Gaspur	Primary	JWMW-11B-050417-N	< 100	**42 J**	**17000**	**160**	**350**	< 100	**82 J**	**140**	< 100	< 100	**22**	< 100
JWMW-11B	12/19/2022	Intermediate Gaspur	Primary	JWMW-11B-121922	< 1	**1.6**	**160**	**4**	**9.8**	< 1	**2.1**	**22**	< 1	< 1	**23**	**0.04**
JWMW-11C	11/29/2016	Lower Gaspur/Exp	Primary	JWMW-11C-112916-N	< 0.5	**5.9**	**59**	**0.56**	**3.5**	< 0.5	**0.3 J**	**1.7**	**0.31 J**	< 0.5	**2.2 1.5 J**	< 0.5
JWMW-11C	05/04/2017	Lower Gaspur/Exp	Primary	JWMW-11C-050417-N	< 0.5	**0.99**	**18**	**0.2 J**	**1.1**	< 0.5	**0.15 J**	**1.4**	< 0.5	< 0.5	**1.1**	< 0.5
JWMW-11C	05/04/2017	Lower Gaspur/Exp	Duplicate	JWMW-11C-050417-FD	< 0.5	**1**	**21**	**0.2 J**	**1.1**	< 0.5	**0.14 J**	**1.4**	< 0.5	< 0.5	**1.1**	< 0.5

TABLE 8
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES - NOVEMBER 2024
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
JWMW-11C	12/19/2022	Lower Gaspur/Exp	Primary	JWMW-11C-121922	< 0.5	**2.4**	**20**	< 0.5	**0.75**	< 0.5	**0.39 J**	**0.72**	< 0.5	< 0.5	**3**	< 0.005
JWMW-11C	12/19/2022	Lower Gaspur/Exp	Duplicate	QC24-121922	< 0.5	**2.5**	**23**	< 0.5	**0.9**	< 0.5	**0.46 J**	**0.8**	< 0.5	< 0.5	**3.3**	< 0.005
JWMW-12	11/29/2016	Exposition	Primary	JWMW-12-112916-N	< 0.5	**2.1**	**12**	< 0.5	**0.64**	< 0.5	**0.48 J**	**1.8**	< 0.5	< 0.5	**2.6 2.3**	< 0.5
JWMW-12	05/04/2017	Exposition	Primary	JWMW-12-050417-N	< 0.5	**2.1**	**15**	**0.34 J**	**0.76**	**0.21 J**	**0.53**	**2.1**	< 0.5	< 0.5	**2**	< 0.5
JWMW-12	12/19/2022	Exposition	Primary	JWMW-12-121922	< 0.5	**1.1**	**11**	< 0.5	**0.51**	< 0.5	**0.31 J**	**0.81**	< 0.5	< 0.5	**2.5**	< 0.005
JWMW-13A	05/03/2017	Shallow Gaspur	Primary	JWMW-13A-050317-N	< 0.5	**3**	**2.9**	**0.44 J**	**0.34 J**	< 0.5	**0.84**	**5**	< 0.5	**0.33 J**	**0.69**	< 0.5
JWMW-13A	12/22/2022	Shallow Gaspur	Primary	JWMW-13A-122222	< 0.5	**17**	**590**	**2.1**	**22**	**7.8**	**5.9 J**	**0.89**	< 0.5	< 0.5	**1.1 J**	< 0.005
JWMW-13B	05/03/2017	Intermediate Gaspur	Primary	JWMW-13B-050317-N	< 0.5	**0.22 J**	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**26**	< 0.5	< 0.5	**0.79**	< 0.5
JWMW-13B	12/22/2022	Intermediate Gaspur	Primary	JWMW-13B-122222	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**17**	< 0.5	< 0.5	**1.4 J**	**0.045**
JWMW-13C	05/03/2017	Lower Gaspur	Primary	JWMW-13C-050317-N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**0.28 J**	< 0.5
JWMW-13C	12/22/2022	Lower Gaspur	Primary	JWMW-13C-122222	< 0.5	< 0.5	**0.44 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.66**	< 0.5	< 0.5	< 2	< 0.005

Notes:

1. Results reported in micrograms per liter (µg/L).
2. Samples collected 2010-2012 were reported by AMEC.
   Analytical results and associated data qualifiers for samples collected prior to 2010 were reported by others.
3. Detected concentrations are shown in **BOLD** font.
4. Estimated and dilution values are shown for April 2005 sampling results.
5. "Split" groundwater samples collected by U.S. Environmental Protection Agency.
6. Samples shaded light gray were collected during the current reporting period.

Abbreviations:

< = Not detected at or above laboratory reporting limit shown
B = Analyte found in associated method blank as well as in sample
* = Result obtained from re-analysis of the sample outside the EPA recommended holding time.
D = Detection associated with sample dilution
DJ = Estimated value; Detection associated with sample dilution
E = Concentration exceeds upper level of instrument calibration range
EJ = Estimated value; concentration exceeds upper level of instrument calibration range
J = Estimated value
J+ = Estimated value, biased high
UJ = Estimated value; value is below detection limit
R = Rejected - R qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
NA = Not analyzed
PCE = Tetrachloroethene
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
1,1-DCE = 1,1-Dichloroethene
tDCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane
µg/L = micrograms per liter

TABLE 9

ANALYTICAL RESULTS FOR DISSOLVED GASES - NOVEMBER 2024
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	Sample Name	Ethane µg/L	Ethene µg/L	Methane µg/L
MW-4B	11/19/2024	Intermediate Gaspur	Primary	MW-04B-111924	< 2	< 2	**74 J**
MW-4B	11/19/2024	Intermediate Gaspur	Duplicate	QC04-111924	< 2	< 2	**41 J**
MW-24	11/21/2024	Shallow Gaspur	Primary	MW-24-112124	< 2	< 2	**13**
MW-25	11/22/2024	Intermediate Gaspur	Primary	MW-25-112224	< 2	< 2	**18**
MW-28	11/21/2024	Lower Gaspur	Primary	MW-28-112124	< 2	< 2	**130**
MW-29	11/22/2024	Intermediate Gaspur	Primary	MW-29-112224	< 2	< 2	**2.5**
MW-30	11/22/2024	Lower Gaspur	Primary	MW-30-112224	< 2	< 2	**60**
MW-37	11/19/2024	Lower Gaspur	Primary	MW-37-111924	< 2	< 2	**39 J**
MW-37	11/19/2024	Lower Gaspur	Duplicate	QC02-111924	< 2	< 2	**14 J**
MW-40	11/19/2024	Lower Gaspur	Primary	MW-40-111924	< 2	< 2	**120**
MW-51	11/19/2024	Lower Gaspur	Primary	MW-51-111924	< 2	< 2	**9.8**
MW-53	11/19/2024	Lower Gaspur	Primary	MW-53-111924	< 2	< 2	< 2
MW-54	11/19/2024	Lower Gaspur	Primary	MW-54-111924	< 2	< 2	**15**

Notes:

1. Results in **bold** are detected.
2. <: Not detected above the indicated reporting limit.
3. J: Estimated result

TABLE 10
VALIDATION SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Sampling Program	Number of Primary Samples	Number of Duplicate Samples	Number of Results	Number of Results with no Qualifiers		Number of Results Qualified with a U				Number of Results Qualified with a J				Number of Results Qualified with a J+				Number of Results Qualified with a UJ				Number of Results Qualified with:					
																						**	D	O-01	R-01	Final	% of Results
				Total	% of Results	Labor-atory	Valida-tion	Final	% of Results	Labor-atory	Valida-tion	Final	% of Results	Labor-atory	Valida-tion	Final	% of Results	Labor-atory	Valida-tion	Final	% of Results	Labor-atory	Labor-atory	Labor-atory	Labor-atory		
GW OU1	63	7	4799	336	7.00%	4348	32	4295	89.50%	76	28	76	1.58%	0	2	2	0.04%	0	90	90	1.88%	0	1	43	3	0	0.00%
GWTS	15	0	1005	94	9.35%	884	0	872	86.77%	20	7	27	2.69%	0	0	0	0.00%	0	12	12	1.19%	0	198	2	0	0	0.00%
SVTS	6	0	330	9	2.73%	321	0	321	97.27%	0	0	0	0.00%	0	0	0	0.00%	0	0	0	0.00%	2	2	0	0	0	0.00%

Note:

1. All samples were validated. See Data Validation Reports for details on validation qualifiers.
2. Final counts of qualified results may be less than the laboratory counts if a different qualifier was given during the validation process.

Abbreviations:

GW OU1 = Groundwater samples from OU1 extraction
GWTS = Groundwater Treatment System
SVTS = Soil Vapor Treatment System
J = The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
J+ = Estimated, biased high.
U = not detected at or above the laboratory reporting limit.
UJ = The reporting limit is estimated. UJ qualifiers added during validation may indicate either a high or low bias related to a quality control element that exceeds required acceptance limits.
** = Results obtained by dilution
D = Results obtained by dilution
O-01 = Compound is a possible field or laboratory contaminant.
R-01 = The MDL and/or MRL has been raised to account for matrix interference.

TABLE 11
CONCENTRATION TREND ANALYSIS SUMMARY 2006 - 2024
COOPER DRUM SUPERFUND SITE
SOUTH COAST, CALIFORNIA

Well ID	Well Area	Aquifer	Total Depth (ft bgs)	Screen Interval (ft bgs)	Total Ethenes [a]		1,4-Dioxane	
					Mann-Kendall Trend Test	Theil-Sen Estimator	Mann-Kendall Trend Test	Theil-Sen Estimator
					Trend	Slope (µg/L per year)	Trend	Slope (µg/L per year)
MW-19	Up-gradient	Shallow Gaspur	80	67 - 77	Decreasing	-4.06	Increasing	0.191
MW-23	Up-gradient	Shallow Gaspur	81	69 - 79	Increasing	0.387	Increasing	0.272
MW-23A	Up-gradient	Shallow Gaspur	66	61 - 65	Decreasing	-2.51	No Trend	--
MW-23B	Up-gradient	Lower Gaspur	108	95 - 105	Increasing	0.0459	Not Applied	--
MW-57A	Up-gradient	Shallow Gaspur	71	60 - 70	Decreasing	-2.12	No Trend	--
MW-57B	Up-gradient	Intermediate Gaspur	91	85 - 90	Not Applied	--	Not Applied	--
MW-58	Up-gradient	Shallow Gaspur	71	60 - 70	Decreasing	-3.25	No Trend	--
MW-63	Up-gradient	Shallow Gaspur	68	62.5 - 67.1	No Trend	--	Decreasing	-2.05
MW-64A	Up-gradient	Intermediate Gaspur	85	79.5 - 84.1	Increasing	1.72	Increasing	0.537
MW-64B	Up-gradient	Lower Gaspur	113	107.8 - 112.5	No Trend	--	Not Applied	--
EW-8	Phase 1 OU1 RAA	Lower Gaspur	109.42	99 - 109	Decreasing	-5.41	Decreasing	-0.556
MW-1	Phase 1 OU1 RAA	Shallow/Intermediate	83	52 - 84	Not Applied	--	Decreasing	-0.672
MW-15	Phase 1 OU1 RAA	Intermediate Gaspur	87	70 - 85	Decreasing	-5.43	No Trend	--
MW-15B	Phase 1 OU1 RAA	Lower Gaspur	105	93 - 103	Decreasing	-6.33	Decreasing	-0.798
MW-17	Phase 1 OU1 RAA	Shallow Gaspur	80	69 - 79	Increasing	1.25	No Trend	--
MW-20	Phase 1 OU1 RAA	Shallow Gaspur	75	55 - 70	Decreasing	-21.2	Decreasing	-4.2
MW-20B	Phase 1 OU1 RAA	Intermediate Gaspur	90	80 - 90	Decreasing	-1.48	No Trend	--
MW-21	Phase 1 OU1 RAA	Shallow Gaspur	75	55 - 75	Decreasing	-58.3	Decreasing	-16
MW-22	Phase 1 OU1 RAA	Shallow Gaspur	75	63 - 73	No Trend	--	Increasing	0.547
MW-2A	Phase 1 OU1 RAA	Shallow Gaspur	63	58 - 62	Decreasing	-54.9	Decreasing	-6.45
MW-2B	Phase 1 OU1 RAA	Shallow Gaspur	73	68 - 72	Decreasing	-1.97	Decreasing	-0.742
MW-2C	Phase 1 OU1 RAA	Intermediate Gaspur	92	88 - 92	Not Applied	--	Not Applied	--
MW-33A	Phase 1 OU1 RAA	Shallow Gaspur	65	55 - 65	Decreasing	-34.4	No Trend	--
MW-33B	Phase 1 OU1 RAA	Intermediate Gaspur	90	80 - 90	Decreasing	-3.24	No Trend	--
MW-4	Phase 1 OU1 RAA	Shallow/Intermediate	82	50 - 82	No Trend	--	Decreasing	-1.86
MW-4B	Phase 1 OU1 RAA	Intermediate Gaspur	93	88 - 92	Increasing	8.18	Not Applied	--
MW-59A	Phase 1 OU1 RAA	Shallow Gaspur	63	58 - 62	Decreasing	-121	Increasing	7
MW-59B	Phase 1 OU1 RAA	Intermediate Gaspur	80	75 - 79	No Trend	--	No Trend	--
MW-59C	Phase 1 OU1 RAA	Intermediate Gaspur	93	88 - 92	Not Applied	--	Not Applied	--
MW-60A	Phase 1 OU1 RAA	Shallow Gaspur	77	72 - 77	No Trend	--	No Trend	--
MW-60B	Phase 1 OU1 RAA	Lower Gaspur	102	92 - 101	Decreasing	-3.89	Decreasing	-0.808
MW-61A	Phase 1 OU1 RAA	Shallow Gaspur	76	66 - 76	Decreasing	-3.55	No Trend	--
MW-61B	Phase 1 OU1 RAA	Intermediate Gaspur	88	83 - 88	Increasing	0.895	Decreasing	-0.214
MW-62A	Phase 1 OU1 RAA	Shallow Gaspur	77	68 - 77	Decreasing	-2.18	No Trend	--
MW-62B	Phase 1 OU1 RAA	Lower Gaspur	107	101 - 106	Decreasing	-4.13	Not Applied	--
PZ-7A	Phase 1 OU1 RAA	Shallow Gaspur	76	70 - 75	Decreasing	-0.83	Increasing	0.133
PZ-7B	Phase 1 OU1 RAA	Intermediate Gaspur	94	88 - 93	Decreasing	-2.29	Increasing	0.235

TABLE 11
CONCENTRATION TREND ANALYSIS SUMMARY 2006 - 2024
COOPER DRUM SUPERFUND SITE
SOUTH COAST, CALIFORNIA

Well ID	Well Area	Aquifer	Total Depth (ft bgs)	Screen Interval (ft bgs)	Total Ethenes [a]		1,4-Dioxane	
					Mann-Kendall Trend Test	Theil-Sen Estimator	Mann-Kendall Trend Test	Theil-Sen Estimator
					Trend	Slope (µg/L per year)	Trend	Slope (µg/L per year)
MW-24	Phase 2 OU1 RAA	Shallow Gaspur	87	70-85	No Trend	--	Not Applied	--
MW-25	Phase 2 OU1 RAA	Intermediate Gaspur	92	75-90	Decreasing	-1.57	No Trend	--
MW-25B	Phase 2 OU1 RAA	Lower Gaspur	109	95-105	Decreasing	-3.94	Decreasing	-0.18
MW-27	Phase 2 OU1 RAA	Intermediate Gaspur	92	75-90	Decreasing	-0.299	Not Applied	--
MW-28	Phase 2 OU1 RAA	Lower Gaspur	115	104-114	Decreasing	-2.32	Decreasing	-0.819
MW-29	Phase 2 OU1 RAA	Intermediate Gaspur	92	75-90	Decreasing	-4.22	Decreasing	-0.523
MW-29A	Phase 2 OU1 RAA	Shallow Gaspur	67	56-66	Not Applied	--	Not Applied	--
MW-30	Phase 2 OU1 RAA	Lower Gaspur	115	104-114	Decreasing	-6.17	No Trend	--
MW-36	Phase 2 OU1 RAA	Intermediate Gaspur	89	77-87	Decreasing	-1.5	Not Applied	--
MW-37	Phase 2 OU1 RAA	Lower Gaspur	111	99.5-109.5	Decreasing	-5.53	No Trend	--
MW-16R	Exposition	Exposition	137.57	127-137	Not Applied	--	Not Applied	--
MW-18R	Exposition	Exposition	132.57	122-132	Not Applied	--	Not Applied	--
MW-26	Exposition	Exposition	134	122-132	Not Applied	--	Not Applied	--
MW-32	Exposition	Exposition	134	122-132	Decreasing	-0.0601	Not Applied	--
MW-55R	Exposition	Exposition	160.61	150-160	Not Applied	--	Not Applied	--
Decreasing Trend (Total)[4]					**30**	**58%**	**14**	**27%**
Up-Gradient					4	40%	1	10%
Phase 1 OU1 RAA					17	63%	10	37%
Phase 2 OU1 RAA					8	80%	3	30%
Exposition					1	20%	0	0%
Increasing Trend (Total)[4]					**6**	**12%**	**7**	**13%**
Up-Gradient					3	30%	3	30%
Phase 1 OU1 RAA					3	11%	4	15%
Phase 2 OU1 RAA					0	0%	0	0%
Exposition					0	0%	0	0%
No Trend (Total)[4]					**7**	**13%**	**15**	**29%**
Up-Gradient					2	20%	3	30%
Phase 1 OU1 RAA					4	15%	9	33%
Phase 2 OU1 RAA					1	10%	3	30%
Exposition					0	0%	0	0%

TABLE 11
CONCENTRATION TREND ANALYSIS SUMMARY 2006 - 2024
COOPER DRUM SUPERFUND SITE
SOUTH COAST, CALIFORNIA

Well ID	Well Area	Aquifer	Total Depth (ft bgs)	Screen Interval (ft bgs)	Total Ethenes [a]		1,4-Dioxane	
					Mann-Kendall Trend Test	Theil-Sen Estimator	Mann-Kendall Trend Test	Theil-Sen Estimator
					Trend	Slope (µg/L per year)	Trend	Slope (µg/L per year)
Not Applied (Total)[4]					**9**	**17%**	**16**	**31%**
Up-Gradient					1	10%	3	30%
Phase 1 OU1 RAA					3	11%	4	15%
Phase 2 OU1 RAA					1	10%	4	40%
Exposition					4	80%	5	100%
Totals					52	100%	52	100%

Notes:

[a] Total Ethenes calculated as the sum of Vinyl chloride, trans-1,2-Dichloroethene, Trichloroethene, and cis-1,2-Dichloroethene.

Statistical Methods: Mann-Kendall Trend Test and Theil-Sen Estimator were reported at a 95% confidence interval using R programming software (R Core Team, 2023), zyp (V0.11-1) and Kendall (V2.2.1) packages.

- Evaluated analytical results include all available data collected through November 2024.
- Datasets with less than 8 independent samples or with more than 50% non-detect samples do not meet the requirements for statitsical evaluation and are classified as "Not Applied".
- Field duplicates were removed prior to analysis and one representative sample was selected for each well/constituent per month to maintain data independence.
- Non-detect results, which include analytes not detected above method detection limits, were substituted with 0 ug/L to eliminate variability related to changing reporting limits over time.
- The Mann-Kendall Trend Test determines the presence and direction of any existing trends, and trend classification logic follow Monitoring and Remediation Optimization System (MAROS; Aziz 2003) guidance.
  - Decreasing = Statistically significant evidence of a decreasing trend at the specified level of significance.
  - Increasing = Statistically significant evidence of an increasing trend at the specified level of significance.
  - No Trend = Insufficient evidence to identify a significant increasing or decreasing trend at the specified level of significance.
- The Thiel-Sen Estimator (also called Sen's slope) estimates the magnitude of any statistically significant increasing or decreasing trends and is reported as the median rate of concentration change per year.

"--" = Sen slope was only calculated in the case that a statistically significant increasing or decreasing trend was identified.

Totals do not include SAIA groundwater monitoring wells.

Shallow Gaspur monitoring wells MW-2A, MW-23A, MW-33A, and MW-59A are now dry.

Abbreviations:

ft bgs = feet below ground surface

OU = Operable Unit

RAA = Remedial Action Area

SAIA = Southern Avenue Industrial Area

TABLE 12
OPERATIONAL HISTORY OF OPERABLE UNIT 2 REMEDIAL ACTION
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Date	Operational Change
February 2011	SVE began with 8 SVE wells (SVE-3 to SVE-10) and 2 DPE wells (DPE-1 and DPE-7) operating with vapor recovery only.
September 2011	Vapor recovery ceased at DPE-1 and DPE-7 when these wells were retrofitted for perched groundwater recovery.
October 2011	SVE wells SVE-11 and SVE-12, located south of the Property, were connected to the vapor treatment system after access was granted by the landowner (Los Angeles Unified School District).
April 2012	Vapor and perched groundwater recovery was initiated at wells DPE-1 through DPE-14.
September 2013	In accordance with the recommendations made in the previous PER, operation of low-producing wells SVE wells (SVE-3 to SVE-9) was temporarily ceased to allow for an increased vacuum at higher producing wells.
July 2014	Wells SVE-9 and DPE-10 were converted to vent wells by opening the wellhead to the atmosphere to enhance subsurface airflow near VP-10B and VP-13B. Well SVE-12 was temporarily closed to vacuum to increase vacuums at higher performing wells.
September 2014	Wells DPE-11 and DPE-12 were temporarily closed to vacuum to increase vacuum at higher performing wells.
October 2014	Wells SVE-11, DPE-2, DPE-3, DPE-4, DPE-6, DPE-8, DPE-9, and DPE-13 were temporarily closed to vacuum to increase vacuum at higher performing wells. Venting at wells SVE-9 and DPE-10 was discontinued because monitoring results indicated a substantial decrease of COC concentrations at vapor monitoring points VP-10B, VP-10C, and VP-13B.
July 2015	Wells located in the HWA were temporarily closed to vacuum to increase vacuums at higher performing wells (SVE-3 through SVE-8, DPE-1 through DPE-6, DPE-8 through DPE-12).
August 2015	All wells were opened to vacuum to establish a new baseline condition.
October 2015	Wells SVE-3 through SVE-9, SVE-12, DPE-2 through DPE-4, DPE-6, DPE-8, and DPE-10 through DPE-13 were temporarily closed to increase applied vacuum at higher performing wells. Seven wells (SVE-10, SVE-11, DPE-1, DPE-5, DPE-7, DPE-9, and DPE-14) remained in operation through 16 March 2016.
March 2016	All DPE and SVE wells were turned off except DPE-1 and DPE-7 which remained in operation.

TABLE 12
OPERATIONAL HISTORY OF OPERABLE UNIT 2 REMEDIAL ACTION
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

May 2016	A venting program was initiated where all SVE and DPE wells were open to the atmosphere except DPE-1 and DPE-7, which had applied vacuum. Extraction occurred for two weeks followed by six weeks of shutdown.
July 2016	The May 2016 venting program was repeated (two weeks of extraction followed by six weeks of shutdown).
October 2016	A cyclical SVE program was implemented with two wells clusters (Cluster A and Cluster B). Cluster A wells included SVE-5, SVE-6, SVE-7, SVE-11, DPE-1, DPE-2, DPE-3, and DPE-7; Cluster B wells included SVE-3, SVE-4, SVE-10, DPE-4, DPE-5, DPE-6, DPE-8, and DPE-14. Clusters operated on alternating weeks to increase vacuum at individual wellheads. This cyclical program continued until January 2017 when the blower seized.
April 2017	A revised cyclical program that included a third well cluster (Cluster C; DPE-1 and DPE-7) was initiated and continued until 24 May 2017 when a high backpressure alarm was triggered in the carbon vessels causing the system to shut-down.
October 2017	On 4 October 2017, the 500 scfm blower skid was replaced with a 1200 scfm blower and focused extraction program was implemented. At startup of the new blower, all the DPE wells were open to vacuum. To increase vacuum at DPE wells with higher mass recovery rates, DPE wells were temporarily closed from vacuum when mass recovery declined to approximately 1 percent of the total mass removal rate. This focused SVE program continued through January 2018 when the blower motor was damaged.
May 2018	A new blower motor was installed and the SVE system resumed operation with all DPE wells open to vacuum on 2 May 2018. Operation of DPE wells continued until 3 October 2018.
October 2018	On 3 October 2018, all DPE wells were closed and all SVE wells opened. SVE wells remained open to vacuum until 14 November 2018.
November to December 2018	On 14 November 2018, a new cyclical program was implemented consisting of six weeks of temporary shutdown followed by two weeks of extraction that began 27 December 2018. During operation extraction included all DPE wells.
August 2019	On 25 August 2019, a revised cyclical program was implemented consisting of six weeks of temporary shutdown followed by two weeks of extraction. SVE was implemented using DPE-7, DPE-13, DPE-, SVE-10, SVE-11, and SVE-12.
November 2019	On 26 November 2019, a revised cyclical program was implemented using DPE-13, DPE-14, SVE-9, SVE-11, and SVE-12 as vent wells. SVE was operated using DPE-7 and SVE-10.
December 2019	On 31 December 2019, the system was shut down concluding the 26 November cyclical program.

OPERATIONAL HISTORY OF OPERABLE UNIT 2 REMEDIAL ACTION
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

February 2020	On 19 February 2020, the system was restarted continuing the revised cyclical program using DPE-13, DPE-14, SVE-9, SVE-11, and SVE-12 as vent wells. SVE was operated using DPE-7 and SVE-10.
June to December 2020	On 1 July 2020, the system remained online, extracting from DPE-7 and SVE-10 while utilizing DPE-13, DPE-14, SVE-9, SVE-11, and SVE-12 as vent wells.
January 2021	On 29 January 2021 the system skid was replaced with another unit rated at 500 scfm. Extraction continued from DPE-7 and SVE-10 while utilizing DPE-13, DPE-14, SVE-9, SVE-11, and SVE-12 as vent wells.
February 2021	On 17 February 2021, additional HWA and DPA extraction wells SVE-3 through SVE-8, and DPE-1 through DPE-12 were brought online. Extraction also continued from DPE-7 and SVE-10, and DPE-13, DPE-14, SVE-9, SVE-11, and SVE-12 were operated as vent wells.
March 2021	On 30 March 2021, USEPA emailed CDCPG indicating its approval of sampling all deep and shallow vapor points on Site to determine if the results meet the criteria as specified in the "Soil Vapor Extraction Rebound Testing Memorandum" dated June 2019 to enter the rebound testing phase.
April 2021	On 5 April 2021, soil vapor rebound evaluation sampling was conducted at all deep and shallow vapor point locations.
May 2021	On 18 May 2021, sixteen locations sampled in April 2021 were resampled and re-analyzed due to hold time exceedances at the laboratory. On 19 May 2021, all SVE and DPE wells were open to vacuum through the remainder of the reporting period.
July 2021	On 9 July 2021, the SVE Rebound Testing Technical Memorandum was submitted to USEPA. Extraction continued from SVE-3 through SVE-12 and DPE-1 through DPE-14.
August 2021	Extraction continued from SVE-3 through SVE-12 and DPE-1 through DPE-14.
September 2021	On 2 September 2021, USEPA provided comments on the Soil Vapor Extraction Rebound Testing Technical Memorandum. On 30 September 2021, USEPA informed the CDCPG that the First Five-Year Review Report was signed, and therefore, the SVE system could be shut-down to enter rebound testing. Extraction continued from SVE-3 through SVE-12 and DPE-1 through DPE-14.
October 2021	On 4 October 2021, the SVE system was shut-down to start rebound testing.

November 2021	On 22 November 2021, the USEPA was notified that the soil vapor concentration at VP-14A exceeded the rebound criteria and select DPE and SVE wells (DPE-7, DPE-8, SVE-11, and SVE-12) in the vicinity of VP-14 were brought online for a three-week operating cycle per the SVE Rebound Testing Technical Memorandum. The laboratory analytical report and data summary table were subsequently submitted to the USEPA on 23 November 2021.
December 2021	On 13 December 2021, the SVE system wells operating in the vicinity of VP-14 were shut-down for rebound testing after a three-week operating cycle. On 20 December 2021, the USEPA was notified that the soil vapor concentration at VP-14A, B, and C exceeded the rebound criteria and select DPE and SVE wells (DPE-7, DPE-13, SVE-10, SVE-11, and SVE-12) in the vicinity of VP-14 were brought online for a three-week operating cycle per the SVE Rebound Testing Technical Memorandum.
January 2022	Between 4 and 10 January 2022 soil vapor rebound evaluation sampling was conducted at all vapor probe locations except VP-14. Extraction continued in the vicinity of VP-14 from wells SVE-10, through SVE-12, DPE-7, and DPE-13.
February 2022	On 2 February 2022, VP-14 was sampled for soil vapor rebound evaluation. The soil vapor concentration at VP-14C exceeded the rebound criteria for TCE. The laboratory analytical report and data summary table were submitted to the USEPA on 22 March 2022. Extraction continued in the vicinity of VP-14 from wells SVE-10, through SVE-12, DPE-7, and DPE-13.
March 2022	Extraction continued in the vicinity of VP-14 from wells SVE-10, through SVE-12, DPE-7, and DPE-13. SVE-10 was turned off on 16 March 2022.
April 2022	Between 4 and 7 April 2022 soil vapor rebound evaluation sampling was conducted at all vapor probe locations. The laboratory analytical report and data summary table were submitted to the USEPA on 24 May 2022. Extraction continued in the vicinity of VP-14 from SVE-11 and SVE-12, DPE-7, and DPE-13.
May to June 2022	Extraction continued in the vicinity of VP-14 from SVE-11 and SVE-12, DPE-7, and DPE-13.
July 2022	Between 11 and 14 July 2022 soil vapor rebound evaluation sampling was conducted at all vapor probe locations. The laboratory analytical report and data summary table were submitted to the USEPA on 26 August 2022. Extraction continued in the vicinity of VP-14 from SVE-11 and SVE-12, DPE-7, and DPE-13.

TABLE 12
OPERATIONAL HISTORY OF OPERABLE UNIT 2 REMEDIAL ACTION
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

August to September 2022	Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 were converted to vent wells on 17 August 2022.
October 2022	Between 10 and 13 October 2022 soil vapor rebound evaluation sampling was conducted at most vapor probe locations, remaining soil vapor probes were sampled on 2 November 2023. Split soil vapor samples were collected by an USEPA contractor during both mobilizations. The laboratory analytical report and data summary table were submitted to the USEPA on 31 January 2023. Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
November 2022	Soil vapor rebound evaluation sampling was conducted at select locations on 2 November 2023. Split soil vapor samples were collected by an USEPA contractor. The laboratory analytical report and data summary table were submitted to the USEPA on 31 January 2023. Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
December 2022 to March 2023	Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
April 2023	Quarterly performance evaluation sampling at VP-14A/B/C. Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
May 2023	Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
June 2023	Quarterly performance evaluation sampling at VP-14A/B/C. Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
July 2023	Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
August 2023	On 14 August 2023, the Work Plan for Addressing Soil Vapor at VP-14 was submitted to USEPA. Extraction continued in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 were operated as vent wells. The SVE system was shut down on 29 August 2023 to complete partial decommissioning of the SVE infrastructure per the Soil Vapor Extraction Rebound Completion and Partial Decommissioning Workplan that was approved by the EPA on 13 August 2023.
September 2023	The SVE system remained offline during partial decommissioning of the SVE infrastructure.

October 2023 to July 2024	On 5 October 2023, extraction resumed in the vicinity of VP-14 from DPE-7. Extraction wells SVE-11, SVE-12, and DPE-13 operated as vent wells.
August 2024	The SVE system was shut down on 8/23/2024 in accordance with the USEPA-approved Revised Work Plan for Addressing Soil Vapor at VP-14.
September to November 2024	The SVE system remained offline in accordance with the USEPA-approved Revised Work Plan for Addressing Soil Vapor at VP-14.
December 2024	Soil vapor probes were installed at the adjacent LAUSD property in accordance with the Revised Work Plan for Addressing Soil Vapor at VP-14. The SVE system remained offline.

Abbreviations:

COCs: chemicals of concern
DPE: dual phase extraction
HWA: Hard Wash Area
DPA: Drum Processing Area
PER: Performance Evaluation Report
scfm: standard cubic feet per minute
SVE: soil vapor extraction
VP: vapor monitoring point
SAP: Sampling and Analysis Plan
USEPA: Environmental Protection Agency
CDCPG: Cooper Drum Cooperating Parties Group

TABLE 13

SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
2/23/2011	28	274	193.7	4.77	5.5	5.5
3/22/2011	607	172	103.9	1.61	76.9	82.4
4/12/2011	1,018	225	46.0	0.93	21.8	104.2
4/27/2011	1,364	179	41.0	0.66	11.4	115.6
5/17/2011	1,811	186	23.1	0.39	9.7	125.3
6/7/2011	2,270	217	30.4	0.59	9.4	134.7
6/21/2011	2,606	274	30.2	0.74	9.4	144.1
7/19/2011	3,096	246	68.0	1.51	23.0	167.0
8/23/2011	3,832	307	4.4	0.12	25.0	192.0
9/20/2011	4,419	200	4.9	0.09	2.5	194.5
9/21/2011	4,419	200	3.3	0.06	0.0	194.5
10/11/2011	4,904	192	8.0	0.14	2.0	196.5
1/13/2012	5,336	229	4.5	0.09	2.1	198.6
2/21/2012	5,529	413	5.5	0.21	1.2	199.8
3/27/2012	6,190	320	10.9	0.31	7.2	207.0
4/24/2012	6,832	188	8.4	0.14	6.1	213.1
5/22/2012	7,401	298	12.0	0.32	5.5	218.6
6/12/2012	7,764	217	19.4	0.38	5.3	223.9
7/20/2012	8,180	231	68.9	1.43	15.7	239.6
8/7/2012	8,594	165	45.1	0.67	18.1	257.7
9/7/2012	9,261	271	42.6	1.04	23.7	281.4
10/16/2012	10,138	253	18.1	0.41	26.5	308.0
12/14/2012	11,309	450	7.5	0.30	17.5	325.5
4/2/2013	12,156	309	12.8	0.35	11.6	337.1
4/23/2013	12,499	305	10.5	0.29	4.6	341.7
5/21/2013	13,157	316	9.6	0.27	7.7	349.4
6/26/2013	13,942	234	8.6	0.18	7.4	356.8
7/30/2013	14,683	231	9.3	0.19	5.8	362.5

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
9/12/2013	15,194	651	7.4	0.43	6.6	369.2
9/24/2013	15,496	490	9.0	0.40	5.2	374.4
10/29/2013	16,249	490	18.6	0.82	19.1	393.5
11/25/2013	16,775	496	15.8	0.70	16.7	410.1
12/16/2013	17,213	436	17.7	0.69	12.8	422.9
1/27/2014	18,168	497	9.2	0.41	22.0	444.9
2/24/2014	18,586	498	6.2	0.28	6.0	450.9
3/24/2014	19,193	442	3.1	0.12	5.1	455.9
4/29/2014	19,882	484	1.6	0.07	2.8	458.7
5/29/2014	20,511	460	5.2	0.22	3.8	462.5
6/26/2014	21,059	485	3.9	0.17	4.4	466.9
7/29/2014	21,762	499	1.5	0.07	3.5	470.4
9/22/2014	22,810	490	1.9	0.08	3.3	473.7
10/23/2014	23,380	490	2.6	0.11	2.3	476.0
11/24/2014	24,013	499	5.6	0.25	4.8	480.8
12/10/2014	24,369	498	16.2	0.72	7.2	488.1
1/20/2015	25,311	488	7.0	0.31	20.3	508.3
2/17/2015	25,840	446	4.3	0.17	5.3	513.6
3/26/2015	26,578	489	3.8	0.16	5.2	518.8
4/30/2015	27,342	474	1.9	0.08	3.9	522.7
5/28/2015	27,857	432	0.9	0.03	1.2	523.9
6/16/2015	28,170	476	0.8	0.03	0.4	524.3
7/7/2015	28,665	482	0.3	0.01	0.5	524.8
8/26/2015	29,705	417	0.3	0.01	0.5	525.4
9/16/2015	30,060	449	0.8	0.03	0.3	525.7
10/14/2015	30,580	468	0.8	0.03	0.7	526.4
11/18/2015	31,287	139	2.4	0.03	0.9	527.3
12/9/2015	31,767	500	1.6	0.07	1.0	528.4

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
1/14/2016	32,111	498	0.8	0.03	0.8	529.1
2/17/2016	32,822	468	2.2	0.09	1.9	531.0
3/23/2016	33,556	305	1.0	0.03	1.8	532.8
4/20/2016	34,171	469	1.2	0.05	1.0	533.8
7/20/2016	34,604	452	2.3	0.10	1.3	535.2
10/19/2016	35,048	450	2.0	0.08	1.6	536.8
10/26/2016	35,187	450	3.0	0.12	0.6	537.4
11/2/2016	35,349	493	10.5	0.46	2.0	539.3
11/16/2016	35,685	473	7.7	0.33	5.5	544.9
12/7/2016	36,158	451	4.1	0.16	4.8	549.7
12/14/2016	36,324	458	1.8	0.08	0.8	550.5
12/21/2016	36,449	416	3.3	0.12	0.5	551.1
12/27/2016	36,449	416	1.8	0.07	0.0	551.1
3/22/2017	36,933	362	2.0	0.07	1.4	552.4
4/5/2017	36,986	380	2.2	0.07	0.2	552.6
4/5/2017	36,991	430	6.8	0.26	0.0	552.6
4/12/2017	37,150	447	4.8	0.19	1.5	554.1
4/12/2017	37,155	144	3.3	0.04	0.0	554.1
4/19/2017	37,323	166	0.0	0.00	0.2	554.3
4/19/2017	37,327	344	1.0	0.03	0.0	554.3
4/26/2017	37,442	291	0.8	0.02	0.1	554.4
4/26/2017	37,447	369	6.4	0.21	0.0	554.4
5/3/2017	37,606	341	2.8	0.08	1.0	555.4
5/3/2017	37,610	143	1.0	0.01	0.0	555.4
5/10/2017	37,711	135	0.9	0.01	0.0	555.5
5/10/2017	37,714	405	1.3	0.05	0.0	555.5
5/17/2017	37,878	370	1.5	0.05	0.3	555.8
5/17/2017	37,882	380	4.7	0.16	0.0	555.8

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
5/24/2017	37,968	400	2.8	0.10	0.5	556.3
5/24/2017	37,974	136	1.0	0.01	0.0	556.3
10/4/2017	37,981	617	2.5	0.14	0.0	556.3
10/11/2017	38,142	600	2.7	0.14	0.9	557.3
10/25/2017	38,479	605	2.5	0.13	2.0	559.2
11/8/2017	38,813	596	2.3	0.12	1.8	561.0
11/29/2017	39,312	585	1.9	0.10	2.3	563.4
12/13/2017	39,649	575	2.1	0.11	1.4	564.8
12/27/2017	39,986	405	0.5	0.02	0.9	565.7
1/31/2018	40,322	435	1.6	0.06	0.6	566.2
5/2/2018	40,495	500	1.5	0.07	0.5	566.7
5/16/2018	40,826	520	1.3	0.06	0.9	567.6
6/20/2018	41,661	550	1.8	0.09	2.6	570.2
7/18/2018	42,322	550	1.9	0.10	2.6	572.8
8/15/2018	42,992	530	2.4	0.11	2.9	575.7
9/19/2018	43,824	518	2.1	0.10	3.6	579.3
10/3/2018	44,159	440	2.1	0.08	1.2	580.6
10/3/2018	44,164	440	0.1	0.01	0.0	580.6
10/10/2018	44,327	450	1.1	0.04	0.2	580.8
10/24/2018	44,658	490	0.8	0.04	0.5	581.3
11/14/2018	45,169	500	0.9	0.04	0.8	582.1
12/27/2018	45,172	525	1.3	0.06	0.0	582.1
1/9/2019	45,480	505	1.5	0.07	0.8	583.0
2/20/2019	45,482	500	0.9	0.04	0.0	583.0
3/6/2019	45,818	550	0.7	0.03	0.5	583.5
5/1/2019	46,159	500	1.3	0.06	0.7	584.1
6/12/2019	46,168	500	1.1	0.05	0.0	584.2
6/26/2019	46,497	543	1.6	0.08	0.9	585.0

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
9/25/2019	46,502	350	3.7	0.12	0.0	585.1
10/9/2019	46,837	392	3.1	0.11	1.6	586.6
11/26/2019	46,839	251	1.0	0.02	0.0	586.6
12/11/2019	47,193	147	0.8	0.01	0.2	586.9
2/19/2020	47,673	340	2.5	0.08	0.9	587.7
2/26/2020	47,840	245	1.2	0.03	0.4	588.1
3/18/2020	48,343	240	1.3	0.03	0.6	588.7
4/15/2020	49,006	293	0.6	0.02	0.6	589.2
5/6/2020	49,498	225	1.7	0.03	0.5	589.7
6/10/2020	50,317	329	1.1	0.03	1.1	590.9
7/8/2020	50,968	276	0.9	0.02	0.8	591.6
8/5/2020	51,626	280	1.2	0.03	0.7	592.4
9/9/2020	52,294	278	1.3	0.03	0.9	593.3
10/7/2020	52,935	242	0.8	0.02	0.7	594.0
11/18/2020	53,903	293	1.0	0.03	0.9	594.9
12/2/2020	54,151	315	12.3	0.35	1.9	596.8
1/13/2021	55,124	314	0.9	0.03	7.6	604.4
2/17/2021	55,824	485	0.9	0.04	1.0	605.3
3/10/2021	56,325	460	0.7	0.03	0.7	606.1
4/14/2021	57,069	480	0.0	0.00	0.5	606.6
5/12/2021	57,739	490	0.6	0.03	0.4	607.0
6/9/2021	58,411	480	0.8	0.03	0.9	607.8
7/7/2021	59,085	480	0.8	0.03	1.0	608.8
8/4/2021	59,750	490	0.8	0.03	0.9	609.7
9/8/2021	60,568	484	0.9	0.04	1.3	611.0
10/4/2021	61,192	490	0.9	0.04	1.0	612.0
11/29/2021	61,362	310	0.9	0.02	0.2	612.3
12/13/2021	61,693	300	0.9	0.02	0.3	612.6

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
1/12/2022	62,239	368	0.8	0.03	0.6	613.2
2/9/2022	62,887	424	2.1	0.08	1.4	614.6
3/9/2022	63,557	434	2.7	0.11	2.6	617.2
4/4/2022	64,180	395	1.2	0.04	2.0	619.2
5/4/2022	64,854	390	2.4	0.08	1.8	621.0
6/1/2022	65,527	390	1.3	0.04	1.8	622.7
7/11/2022	66,485	201	1.9	0.03	1.6	624.3
8/10/2022	67,113	255	1.2	0.03	0.8	625.1
9/7/2022	67,781	109	1.9	0.02	0.7	625.8
10/5/2022	68,442	124	2.1	0.02	0.6	626.3
11/2/2022	69,022	111	1.2	0.01	0.4	626.8
12/7/2022	69,854	118	0.7	0.01	0.3	627.1
1/4/2023	70,523	128	0.6	0.01	0.2	627.3
2/1/2023	71,193	125	0.6	0.01	0.2	627.5
3/1/2023	71,863	114	0.8	0.01	0.2	627.7
4/13/2023	72,889	123	0.6	0.01	0.3	628.0
5/3/2023	73,370	109	0.7	0.01	0.1	628.2
6/7/2023 [2]	74,207	44	7.1	0.03	0.6	628.8
7/5/2023 [2]	74,872	47	6.8	0.03	0.8	629.6
8/2/2023	75,539	159	0.0	0.00	0.4	630.0
9/5/2023	76,340	107	1.3	0.01	0.2	630.2
10/5/2023	76,668	89	2.6	0.02	0.2	630.4
11/15/2023	77,285	84	2.2	0.02	0.5	630.9
12/6/2023	77,789	88	2.1	0.02	0.4	631.3
1/3/2024	78,301	99	1.9	0.02	0.4	631.6
2/7/2024	79,142	96	1.2	0.01	0.5	632.1
3/6/2024	79,814	90	0.9	0.01	0.3	632.4
4/3/2024	80,479	90	1.2	0.01	0.2	632.6
5/8/2024	81,311	89	1.1	0.01	0.3	632.9

TABLE 13
SOIL VAPOR EXTRACTION TREATMENT SYSTEM OPERATIONS SUMMARY
COOPER DRUM SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Influent Sampling Date	Cumulative Hours of Operation (hrs)	System Flow (scfm)	Total Influent COCs Concentration[1] (mg/m3)	Average COC Mass Removal Rate (lbs/day)	Incremental Mass Removal (lbs)	Cumulative Mass of COCs Removed (lbs)
6/12/2024	82,145	85	1.2	0.01	0.3	633.2
7/3/2024	82,637	91	1.3	0.01	0.2	633.4
8/6/2024	83,450	87	1.2	0.01	0.3	633.8
8/23/2024	83,861	90	1.2	0.01	0.2	634.0

Note:

1. Unless noted otherwise, the total influent COCs concentration is the sum of COCs concentrations detected using EPA Method TO-15 for vapor samples collected from the influent to the vapor treatment system and is comprised of extraction well vapor and dilution air.
2. The influent COC concentration reported in June and July 2023 was collected pre-blower and was comprised of DPE-7 vapor only.
3. Data collected during this reporting period are shaded in gray.
4. The system was shut down on 8/23/2024 in accordance with the USEPA approved Revised Work Plan for Addressing Soil Vapor at VP-14.

Abbreviations:

-- = not sampled or measured
mg/m^3 = micrograms per cubic meter
COCs = chemicals of concern
GAC = granular activated carbon
hrs = hours
NM = not measured
lbs = pounds
scfm = standard cubic feet per minute

TABLE 14

EXTRACTION WELL AND MONITORING POINT CONSTRUCTION SUMMARY - OPERABLE UNIT 2
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well or Monitoring Point ID	Screen Interval (ft bgs)	Installation Date	Decommissioning Date	Installed By	Total Depth (ft bgs)	Casing or CMT Diameter (inches)	Slot Size (inches)	CMT Screen Size (microns)	Top of Casing Elevation (NAVD88)
SVE-1/DPE-1	8 - 43	12/4/2000	9/22/2023	URS	44	4	0.02	--	109.96
SVE-2/DPE-7	8 - 48	2/27/2004	--	URS	48	4	0.02	--	112.91
SVE-3	9.5 - 29.5	8/26/2010	9/5/2023	AMEC	30.9	4	0.02	--	105.08
SVE-4	9.6 - 28.9	8/24/2010	9/5/2023	AMEC	30	4	0.02	--	105.29
SVE-5	10.1 - 29.3	8/24/2010	9/21/2023	AMEC	30	4	0.02	--	104.84
SVE-6	9.9 - 29.1	8/25/2010	9/6/2023	AMEC	30	4	0.02	--	105.37
SVE-7	10 - 29.2	8/25/2010	9/5/2023	AMEC	30.5	4	0.02	--	105.27
SVE-8	9.5 - 29.5	8/26/2010	9/5/2023	AMEC	30	4	0.02	--	105.33
SVE-9	10.4 - 29.4	8/24/2010	9/6/2023	AMEC	32	4	0.02	--	104.90
SVE-10	10 - 29.2	8/23/2010	9/21/2023	AMEC	32	4	0.02	--	104.80
SVE-11	9 - 29	8/25/2010	--	AMEC	30	4	0.02	--	105.04
SVE-12	9.5 - 29.5	8/25/2010	--	AMEC	30	4	0.02	--	104.85
DPE-2	32.8 - 47.3	5/5/2011	9/7/2023	AMEC	49.8	4	0.02	--	108.70
DPE-3	32.9 - 47.4	5/5/2011	9/7/2023	AMEC	50	4	0.02	--	109.08
DPE-4	32.8 - 47.1	5/2/2011	9/8/2023	AMEC	49.7	4	0.02	--	108.99
DPE-5	32.6 - 47.1	5/2/2011	9/8/2023	AMEC	49.6	4	0.02	--	109.11
DPE-6	32.6 - 47	5/6/2011	9/8/2023	AMEC	49.5	4	0.02	--	108.83
DPE-8	32.6 - 47	5/3/2011	9/7/2023	AMEC	49.5	4	0.02	--	109.00
DPE-9	32.9 - 47.5	5/4/2011	9/7/2023	AMEC	50	4	0.02	--	108.42
DPE-10	33 - 47.4	5/4/2011	9/8/2023	AMEC	49.9	4	0.02	--	108.55
DPE-11	33 - 47.5	5/6/2011	9/8/2023	AMEC	50	4	0.02	--	108.75
DPE-12	32.5 - 46.9	5/3/2011	9/8/2023	AMEC	49.4	4	0.02	--	109.03
DPE-13	33 - 47.5	8/16/2011	--	AMEC	50.7	4	0.02	--	104.43
DPE-14	33.9 - 48.4	5/9/2011	9/8/2023	AMEC	50.9	4	0.02	--	108.63
VP-5A	9.25 - 9.75	7/2/2010	9/13/2023	AMEC	29	1.1	--	150	106.50
VP-5B	20.25 - 20.75								
VP-5C	27.25 - 27.75								
PZ-5	37.1 - 41.5	7/1/2010	9/7/2023	AMEC	50	2	0.01	--	106.89
VP-6A	9.25 - 9.75	7/2/2010	9/13/2023	AMEC	29	1.1	--	150	106.67
VP-6B	20.25 - 20.75								
VP-6C	27.25 - 27.75								
PZ-6	37.2 - 41.6	7/1/2010	9/7/2023	AMEC	45	2	0.01	--	106.74
VP-7A	9.5 - 10	1/7/2011	9/13/2023	AMEC	49	1.7	--	150	106.00
VP-7B	18.75 - 19.25								
VP-7C	30.5 - 31								
VP-7D	34.5 - 35, 39 - 39.5								
VP-7E	37.5 - 38								
VP-7F	41.5 - 42								
VP-7G	46.5 - 47								

TABLE 14

EXTRACTION WELL AND MONITORING POINT CONSTRUCTION SUMMARY - OPERABLE UNIT 2
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well or Monitoring Point ID	Screen Interval (ft bgs)	Installation Date	Decommissioning Date	Installed By	Total Depth (ft bgs)	Casing or CMT Diameter (inches)	Slot Size (inches)	CMT Screen Size (microns)	Top of Casing Elevation (NAVD88)
VP-8A	9.5 - 10.0	1/12/2011	9/13/2023	AMEC	49	1.7	--	150	105.92
VP-8B	18.0 - 18.5								
VP-8C	29.5 - 30.0								
VP-8D	33.5 - 34.0, 38.0 - 38.5								
VP-8E	37.5 - 38.0								
VP-8F	46.5 - 47.0	1/12/2011	9/13/2023	AMEC	49	1.7	--	150	105.63
VP-8G	47.0 - 47.5								
VP-9A	8.5 - 9.0								
VP-9B	17.5 - 18.0								
VP-9C	29.5 - 30.0								
VP-9D	33.5 - 34.0, 38.0 - 38.5								
VP-9E	37.5 - 38.0								
VP-9F	46.0 - 46.5								
VP-9G	47.0 - 47.5								
VP-10A	9.5 - 10.0	1/13/2011	9/13/2023	AMEC	49	1.7	--	150	106.15
VP-10B	18.0 - 18.5								
VP-10C	30.5 - 31.0								
VP-10D	33.5 -34.0, 40.0 - 40.5								
VP-10E	39.0 - 39.5								
VP-10F	46.5 - 47.0								
VP-10G	47.0 - 47.5								
VP-11A	9.0 - 9.5	1/7/2011	9/13/2023	AMEC	49	1.7	--	150	105.44
VP-11B	19.0 - 19.5								
VP-11C	29.5 - 30.0								
VP-11D	33.5 - 34.0, 42.0 - 42.5								
VP-11E	41.0 - 41.5								
VP-11F	46.0 - 46.5								
VP-11G	47.0 - 47.5								
VP-12A	10.0 - 10.5	1/13/2011	9/13/2023	AMEC	49	1.7	--	150	105.65
VP-12B	17.5 - 18.0								
VP-12C	29.5 - 30.0								
VP-12D	33.5 - 34.0, 41.5 - 42.0								
VP-12E	37.5 - 38.0								
VP-12F	46.5 - 47.0								
VP-12G	47.0 - 47.5								

TABLE 14

EXTRACTION WELL AND MONITORING POINT CONSTRUCTION SUMMARY - OPERABLE UNIT 2
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well or Monitoring Point ID	Screen Interval (ft bgs)	Installation Date	Decommissioning Date	Installed By	Total Depth (ft bgs)	Casing or CMT Diameter (inches)	Slot Size (inches)	CMT Screen Size (microns)	Top of Casing Elevation (NAVD88)
VP-13A	9.5 - 10.0	1/5/2011	9/13/2023	AMEC	50	1.7	--	150	105.24
VP-13B	21.0 - 21.5								
VP-13C	26.0 - 26.5								
VP-13D	33.0 - 33.5, 41.0 - 41.5								
VP-13E	39.5 - 40.0								
VP-13F	45.5 - 46.0								
VP-13G	48.0 - 48.5								
VP-14A	9.5 - 10	8/17/2011	--	AMEC	48.5	1.7	--	150	105.13
VP-14B	19 - 19.5								
VP-14C	29 - 29.5								
VP-14D	33 - 33.5, 41 - 41.5								
VP-14E	39.5 - 40								
VP-14F	45.5 - 46								
VP-14G	47 - 47.5								
VP-15A	10 - 10.5	9/17/2011	9/14/2023	AMEC	50	1.7	--	150	105.88
VP-15B	20 - 20.5								
VP-15C	29.5 - 30								
VP-15D	34.5 - 35								
VP-15E	40 - 40.5								
VP-15F	47 - 47.5								
VP-15G	48 - 48.5								

Abbreviations:

-- = information not available
AMEC = AMEC Environment & Infrastructure, Inc.
CMT = continuous multi-channel tubing
ft bgs = feet below ground surface
NAVD88 = feet above the North American Vertical Datum of 1988
URS = URS Group, Inc.

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VINF	2/23/2011	INF-022311	**14**	**95000**	**5.3**	**29000**	< 0.83	< 5000	**11**	**44000**	**4.7**	**19000**	< 1.2	< 4900	**2.6**	**6700**	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	**37.6**	**193700**
VINF	3/22/2011	VINF-032211	**8.4**	**57000**	**2.8**	**15000**	< 0.83	< 5000	**6.3**	**25000**	**1.7**	**6900**	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	**19.2**	**103900**
VINF	4/12/2011	V-INF-041211	**4**	**30000**	**0.89**	**4800**	< 0.067	< 400	**2.1**	**8300**	**0.62**	**2500**	< 0.1	< 400	**0.092 J**	**240 J**	< 0.067	< 270	< 0.1	< 500	< 0.067	< 270	**0.056 J**	**180 J**	NT	NT	**7.758**	**46020**
VINF	4/27/2011	VINF-042711	**3.5**	**24000**	**0.89**	**4800**	< 0.067	< 400	**2.6**	**10000**	**0.44**	**1800**	< 0.1	< 400	< 0.13	< 330	< 0.067	< 270	< 0.1	< 500	**0.051 J**	**200 J**	**0.052 J**	**170 J**	**37**	**130000**	**44.533**	**170970**
VINF	5/17/2011	VINF-051711	**2.5**	**17000**	**0.43**	**2300**	< 0.04	< 200	**0.75**	**3000**	**0.2**	**800**	< 0.06	< 200	< 0.08	< 200	< 0.04	< 200	< 0.06	< 300	< 0.04	< 200	< 0.06	< 200	**22**	**77000**	**25.88**	**100100**
VINF	6/7/2011	VINF-060711	**3.4**	**23000**	**0.58**	**3100**	< 0.046	< 280	**0.84**	**3300**	**0.19**	**770**	< 0.046	< 190	**0.047**	**120**	< 0.046	< 180	< 0.057	< 260	< 0.046	< 180	**0.028 J**	**90 J**	**31**	**110000**	**36.085**	**140380**
VINF	6/21/2011	VINF-062111	**3.5**	**24000**	**0.43**	**2300**	< 0.1	< 600	**0.8**	**3000**	**0.21**	**850**	< 0.1	< 400	< 0.1	< 300	< 0.1	< 400	< 0.12	< 560	< 0.1	< 400	< 0.1	< 300	**36**	**130000**	**40.94**	**160150**
VINF	7/19/2011	VINF-071911	**9.2**	**63000**	**0.55**	**3000**	< 0.067	< 400	**0.13**	**520**	**0.37**	**1500**	< 0.067	< 270	< 0.067	< 170	< 0.067	< 270	< 0.083	< 380	< 0.067	< 270	< 0.067	< 210	**69**	**240000**	**79.25**	**308020**
VINF	8/23/2011	VINF-082311	< 0.04	< 300	**0.35**	**1900**	< 0.04	< 200	**0.51**	**2000**	**0.1**	**400**	< 0.04	< 200	**0.028 J**	**72 J**	< 0.04	< 200	< 0.05	< 200	< 0.04	< 200	< 0.04	< 100	**91**	**320000**	**91.988**	**324372**
VINF	9/20/2011	VINF-092011	**0.52**	**3500**	**0.14**	**750**	< 0.008	< 48	**0.11**	**440**	**0.035**	**140**	< 0.008	< 32	< 0.008	< 20	< 0.008	< 32	< 0.01	< 50	**0.0059 J**	**23 J**	< 0.008	< 26	**3.2**	**11000**	**4.0109**	**15853**
VINF	9/21/2011	VINF-092111	**0.38**	**2600**	**0.086**	**460**	< 0.01	< 60.4	**0.05**	**200**	**0.021**	**85**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 39.7	< 0.011	< 51	< 0.01	< 39.7	< 0.015	< 48	NT	NT	**0.537**	**3345**
VINF	10/11/2011	VINF-101111	**1**	**7000**	**0.15**	**810**	< 0.04	< 200	**0.06**	**200**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 100	< 0.04	< 200	< 0.05	< 200	< 0.04	< 200	< 0.04	< 100	**6.9**	**24000**	**8.11**	**32010**
VINF	1/13/2012	VINF-011312	**0.53**	**3600**	**0.097**	**520**	< 0.004	< 24	**0.038**	**150**	**0.028**	**110**	< 0.004	< 16	**0.035**	**90**	**0.0033 J**	**13 J**	< 0.005	< 23	**0.0033 J**	**13 J**	**0.0026 J**	**8.3 J**	**2.4**	**8500**	**3.1372**	**13004.3**
VINF	2/21/2012	VINF-022112	**0.66**	**4500**	**0.093**	**500**	< 0.02	< 100	**0.084**	**330**	**0.041**	**170**	< 0.02	< 80	**0.016 J**	**41 J**	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	< 2.5	< 8800	**0.894**	**5541**
VINF	3/27/2012	VINF-032712	**1.5**	**10000**	**0.12**	**650**	< 0.05	< 300	**0.044 J**	**170 J**	**0.027 J**	**110 J**	< 0.05	< 200	< 0.05	< 100	< 0.05	< 200	< 0.063	< 290	< 0.05	< 200	< 0.05	< 200	< 6.3	< 22000	**1.691**	**10930**
VINF	4/24/2012	VINF-042412	**1.1**	**7500**	**0.12**	**650**	< 0.02	< 100	**0.043**	**170**	**0.028**	**110**	< 0.02	< 80	< 0.02	< 50	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	**1.8 J**	**6300 J**	**3.091**	**14730**
VINF	5/22/2012	VINF-052212	**2**	**10000**	**0.19**	**1000**	< 0.08	< 500	**0.19**	**750**	**0.067 J**	**270 J**	< 0.08	< 300	< 0.08	< 200	< 0.08	< 300	< 0.1	< 500	< 0.08	< 300	< 0.08	< 300	**8.6 J**	**30000 J**	**11.047**	**42020**
VINF	6/12/2012	VINF-061212	**2.1**	**14000**	**0.28**	**1500**	< 0.067	< 400	**0.31**	**1200**	**0.097**	**390**	< 0.067	< 270	< 0.067	< 170	**0.078**	**310**	< 0.084	< 390	< 0.067	< 270	**0.7**	**2000**	**16**	**56000**	**19.565**	**75400**
VINF	7/20/2012	VINF-072012	**8.4**	**57000**	**0.58**	**3100**	< 0.14	< 850	**0.11 J**	**440 J**	**0.078 J**	**320 J**	< 0.14	< 570	< 0.14	< 360	**0.17**	**670**	< 0.18	< 830	< 0.14	< 560	**2.3**	**7400**	< 71	< 250000	**11.638**	**68930**
VINF	8/7/2012	VINF-080712	**5.4**	**37000**	**0.67**	**3600**	< 0.13	< 780	**0.068 J**	**270 J**	< 0.13	< 530	< 0.13	< 530	< 0.13	< 330	< 0.13	< 520	< 0.17	< 790	< 0.13	< 520	**1.3**	**4200**	< 67	< 240000	**7.438**	**45070**
VINF	9/7/2012	VINF-090712	**5.3**	**36000**	**0.33**	**1800**	< 0.25	< 1500	< 0.25	< 990	< 0.25	< 1000	< 0.25	< 1000	< 0.25	< 640	< 0.25	< 990	< 0.31	< 1400	< 0.25	< 990	**1.5**	**4800**	< 130	< 460000	**7.13**	**42600**
VINF	10/16/2012	VINF-101612	**2**	**10000**	**0.68**	**3700**	< 0.05	< 300	**0.11**	**440**	**0.043 J**	**170 J**	< 0.05	< 200	< 0.05	< 100	< 0.05	< 200	< 0.063	< 290	< 0.05	< 200	**1.2**	**3800**	< 25	< 88000	**4.033**	**18110**
VINF	12/14/2012	VINF-121412 (total vapor influent)	**0.49**	**3300**	**0.45**	**2400**	< 0.049	< 300	**0.086**	**340**	< 0.049	< 200	< 0.049	< 200	< 0.049	< 130	< 0.049	< 190	< 0.12	< 560	< 0.049	< 190	**0.47**	**1500**	< 25	< 88000	**1.496**	**7540**
VINF	5/24/2017	SVE-TOTI-052417-0001	**0.75**	**5100**	**0.054**	**290**	< 0.004	< 24	**0.022**	**87**	**0.015**	**61**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	**0.0042**	**17**	< 0.006	< 19	NT	NT	**0.8452**	**5555**
VINF	8/10/2022	SVE-PREDIL-081022-0001	**0.16 J**	**1100 J**	**0.016**	**86**	< 0.002	< 12	**0.0029**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1789**	**1198**
VINF	9/7/2022	SVE-PREDIL-090722	**2.3**	**16000**	**0.035**	**190**	< 0.002	< 12	**0.019**	**75**	**0.0073**	**30**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.8**	**6300**	**4.1613**	**22595**
VINF	10/5/2022	SVE-PREDIL-100522	**2.2**	**15000**	**0.034**	**180**	< 0.002	< 12	**0.02**	**80**	**0.0074**	**30**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**2.3**	**8100**	**4.5614**	**23390**
VINF	11/2/2022	PREDIL-110222	**2.2**	**15000**	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.4	< 2000	< 0.5	< 2000	< 0.78	< 2000	< 0.4	< 2000	< 0.44	< 2000	< 0.4	< 2000	< 0.6	< 2000	< 9.6	< 34000	**2.2**	**15000**
VINF	12/7/2022	PRE-DIL-120722	**1.3**	**8800**	< 0.15	< 810	< 0.15	< 910	< 0.15	< 600	< 0.15	< 610	< 0.19	< 770	< 0.29	< 740	< 0.15	< 600	< 0.16	< 740	< 0.15	< 600	< 0.22	< 700	< 3.6	< 13000	**1.3**	**8800**
VINF	12/7/2022	PRE-DIL-120722	**1.3**	**8800**	< 0.15	< 810	< 0.15	< 910	< 0.15	< 600	< 0.15	< 610	< 0.19	< 770	< 0.29	< 740	< 0.15	< 600	< 0.16	< 740	< 0.15	< 600	< 0.22	< 700	< 3.6	< 13000	**1.3**	**8800**
VINF	1/4/2023	PREDIL-010423	**0.97**	**6600**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**2.6**	**9200**	**3.57**	**15800**
VINF	2/1/2023	PRE-DIL-020123	**0.71**	**4800**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**4**	**10000**	**4.71**	**14800**
VINF	3/1/2023	PRE-DIL-030123	**0.69**	**4700**	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**1.3**	**4600**	**1.99**	**9300**
VINF	4/13/2023	PREDIL-041323	**0.029**	**200**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.029**	**200**
VGACI	2/23/2011	GAC-LEAD-022311	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACI	3/22/2011	VIGAC-032211	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACI	4/12/2011	V-IGAC-041211	**0.024**	**160**	**0.055**	**300**	< 0.0033	< 20	**0.31**	**1200**	**0.09**	**400**	< 0.005	< 20	**0.092 J**	**240 J**	**0.028**	**110**	< 0.005	< 23	**0.023**	**91**	< 0.005	< 16	NT	NT	**0.622**	**2501**
VGACI	4/27/2011	VGAC1-042711	**0.039**	**260**	**0.066**	**360**	< 0.002	< 12	< 0.002	< 7.9	**0.11**	**450**	**0.0032**	**13**	**0.036**	**92**	**0.024**	**95**	< 0.003	< 14	**0.029**	**120**	**0.0038**	**12**	< 0.2	< 700	**0.311**	**1402**
VGACI	5/17/2011	VGAC1-051711	**0.011**	**75**	**0.017**	**91**	< 0.002	< 12	**0.11**	**440**	**0.045**	**180**	< 0.003	< 12	**0.0076**	**19**	< 0.002	< 7.9	< 0.003	< 14	**0.0033**	**13**	**0.0021 J**	**6.7 J**	< 0.2	< 700	**0.196**	**824.7**
VGACI	6/7/2011	VGAC1-060711	**0.04**	**300**	**0.05**	**300**	< 0.004	< 24	**0.19**	**750**	**0.067**	**270**	< 0.004	< 16	**0.076**	**190**	**0.015**	**60**	< 0.005	< 23	**0.023**	**91**	**0.0048**	**15**	**3.4**	**12000**	**3.8658**	**13976**
VGACI	7/19/2011	VGAC1-071911	**0.013**	**88**	**0.011**	**59**	< 0.004	< 24	**0.048**	**190**	< 0.004	< 16	**0.0021 J**	**8.5 J**	**0.069**	**180**	**0.0073**	**29**	< 0.005	< 23	**0.0094**	**37**	< 0.004	< 13	**2.1**	**7400**	**2.2598**	**7991.5**
VGACI	8/23/2011	VGAC1-082311	< 0.01	< 70	**0.23**	**1200**	< 0.01	< 60	**0.51**	**2000**	**0.092**	**370**	< 0.01	< 40	**0.036**	**92**	< 0.01	< 40	< 0.012	< 56	< 0.01	< 40	**0.0069 J**	**22 J**	**6.6**	**23000**	**7.4749**	**26684**
VGACI	9/20/2011	VGAC1-092011	**0.023**	**160**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.89**	**3100**	**0.913**	**3260**
VGACI	10/11/2011	VGAC1-101111	**0.0054**	**37**	**0.002 J**	**11 J**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.0021 J**	**8.5 J**	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**1.3**	**4600**	**1.3095**	**4656.5**
VGACI	1/13/2012	VGAC1-011312	**0.0061**	**41**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	**0.009**	**29**	< 0.5	< 2000	**0.0151**	**70**
VGACI	2/21/2012	VGAC1-022112	**0.45**	**3100**	**0.098**	**530**	< 0.008	< 48	**0.1**	**400**	**0.05**	**200**	< 0.008	< 32	**0.02**	**50**	< 0.008	< 32	< 0.01	< 50	**0.0046 J**	**18 J**	< 0.008	< 26	**0.79 J**	**2800 J**	**1.5126**	**7098**
VGACI	3/27/2012	VGAC1-032712	**0.38**	**2600**	**0.079**	**430**	< 0.01	< 60	**0.054**	**210**	**0.033**	**130**	< 0.01	< 40	< 0.01	< 30	< 0.01	< 40	< 0.013	< 60	< 0.01	< 40	< 0.01	< 30	**0.96 J**	**3400 J**	**1.506**	**6770**
VGACI	4/24/2012	VGAC1-042412	**0.36**	**2400**	**0.067**	**360**	< 0.0067	< 40	**0.045**	**180**	**0.03**	**100**	< 0.0067	< 27	**0.0065 J**	**17 J**	< 0.0067	< 27	< 0.0084	< 39	**0.0036 J**	**14 J**	< 0.0067	< 21	**0.89**	**3100**	**1.4021**	**6171**
VGACI	5/22/2012	VGAC1-052212	**0.63**	**4300**	**0.16**	**860**	< 0.02	< 100	**0.17**	**670**	**0.072**	**290**	< 0.02	< 80	< 0.02	< 50	< 0.02	< 80	< 0.025	< 120	< 0.02	< 80	< 0.02	< 60	**7.6**	**27000**	**8.632**	**33120**
VGACI	6/12/2012	VGAC1-061212	**1.2**	**8200**	**0.29**	**1600**	< 0.05	< 300	**0.35**	**1400**	**0.096**	**390**	< 0.05	< 200	< 0.05	< 100	**0.068**	**270**	< 0.063	< 290	< 0.05	< 200	**0.79**	**2500**	**19**	**67000**	**21.794**	**81360**
VGACI	7/20/2012	VMID1-072012	**0.68**	**4600**	**0.25**	**1300**	< 0.01	< 60	**0.1**	**400**	**0.078**	**320**	< 0.01	< 40	**0.043**	**110**	**0.12**	**480**	< 0.013	< 60	**0.0076 J**	**30 J**	**2**	**6000**	**7.4**	**26000**	**10.6786**	**39240**
VGACI	8/7/2012	VGAC1-080712	**0.36**	**2400**	**0.19**	**1000**	< 0.0067	< 40	**0.039**	**150**	**0.028**	**110**	< 0.0067	< 27	**0.026**	**67**	**0.031**	**120**	< 0.0084	< 39	**0.0034 J**	**13 J**	**0.84**	**2700**	**1.7 J**	**6000 J**	**3.2174**	**12560**
VGACI	9/7/2012	VGAC1-090712	**0.68**	**4600**	**0.13**	**700**	< 0.022	< 130	**0.19**	**750**	**0.076**	**310**	< 0.022	< 89	< 0.022	< 56	**0.032**	**130**	< 0.028	< 130	< 0.022	< 87	**1.8**	**5800**	< 11	< 39000	**2.908**	**12290**
VGACI	10/16/2012	VGAC1-101612	**0.66**	**4500**	**0.81**	**4400**	< 0.02	< 100	**0.13**	**520**	**0.04**	**200**	< 0.02	< 80	**0.044**	**110**	**0.021**	**83**	< 0.025	< 120	< 0.02	< 80	**0.92**	**2900**	< 10	< 40000	**2.625**	**12713**
VGACI	12/14/2012	VGAC1-121412 (pri carb inlet)	**0.56**	**3800**	**0.52**	**2800**	< 0.049	< 300	**0.11**	**440**	< 0.049	< 200	< 0.049	< 200	< 0.049	< 130	< 0.049	< 190	< 0.12	< 560	< 0.049	< 190	**0.98**	**3100**	< 24	< 85000	**2.17**	**10140**
VGACI	4/2/2013	VGACI-040213-001	**0.41**	**2800**	**1.2**	**6500**	< 0.1	< 600	**0.19**	**750**	< 0.1	< 400	< 0.12	< 490	< 0.2	< 500	< 0.1	< 400	< 0.11	< 510	< 0.1	< 400	**0.84**	**2700**	NT	NT	**2.64**	**12750**
VGACI	4/23/2013	VGACI-042313-0001	**0.47**	**3200**	**1.1**	**5900**	< 0.06	< 400	**0.18**	**710**	**0.064**	**260**	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	**0.14**	**450**	**13**	**46000**	**14.954**	**56520**
VGACI	5/21/2013	VGACI-052113-0001	**0.49**	**3300**	**1**	**5000**	< 0.06	< 400	**0.24**	**950**	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	**0.098**	**310**	**23**	**81000**	**24.828**	**90560**
VGACI	6/26/2013	VGACI-062613-0001	**0.5**	**3000**	**0.87**	**4700**	< 0.06	< 400	**0.23**	**910**	< 0.06	< 200	< 0.074	< 300	< 0.12	< 310	< 0.06	< 200	< 0.065	< 300	< 0.06	< 200	< 0.09	< 300	**3.8**	**13000**	**5.4**	**21610**
VGACI	7/30/2013	VGACI-073013-0001	**0.57**	**3900**	**0.83**	**4500**	< 0.05	< 300	**0.22**	**870**	< 0.05	< 200	< 0.062	< 250	< 0.098	< 250	< 0.05	< 200	< 0.054	< 250	< 0.05	< 200	< 0.075	< 240	**11**	**39000**	**12.62**	**48270**
VGACI	9/12/2013	VGACI-091213-0001	**0.33**	**2200**	**0.79**	**4300**	< 0.04	< 200	**0.22**	**870**	< 0.04	< 200	< 0.049	< 200	< 0.078	< 200	< 0.04	< 200	< 0.043	< 200	< 0.04	< 200	< 0.06	< 200	**1.6**	**5600**	**2.94**	**12970**
VGACI	9/24/2013	VGACI-092413-0001	**0.58**	**3900**	**0.8**	**4000**	< 0.03	< 200	**0.25**	**990**	**0.035**	**140**	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**8.3**	**29000**	**9.965**	**38030**
VGACI	10/29/2013	VGACI-102913-0001	**0.59**	**4000**	**2.1**	**11000**	< 0.04	< 200	**0.82**	**3300**	**0.064**	**260**	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**14**	**49000**	**17.574**	**67560**
VGACI	11/25/2013	VGACI-112513-0001	**0.36**	**2400**	**1.7**	**9100**	< 0.04	< 200	**1**	**4000**	**0.07**	**300**	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**2.5**	**8800**	**5.63**	**24600**
VGACI	12/16/2013	VGACI-121613-0001	**0.52**	**3500**	**2.1**	**11000**	< 0.08	< 500	**0.81**	**3200**	< 0.08	< 300	< 0.1	< 400	< 0.16	< 410	< 0.08	< 300	< 0.088	< 410	< 0.08	< 300	< 0.12	< 380	**9**	**30000**	**12.43**	**47700**
VGACI	1/27/2014	VGACI-012714-0001	**0.22**	**1500**	**1.1**	**5900**	< 0.04	< 200	**0.46**	**1800**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**5.9**	**21000**	**7.68**	**30200**
VGACI	2/24/2014	VGACI-022414-0001	**0.13**	**880**	**0.77**	**4100**	< 0.04	< 200	**0.29**	**1200**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**6**	**20000**	**7.19**	**26180**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACI	3/24/2014	VGACI-032414-0001	**0.1**	**700**	**0.36**	**1900**	< 0.03	< 200	**0.13**	**520**	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	< 3.7	< 13000	**0.59**	**3120**
VGACI	4/29/2014	VGACI-042914-0001	**0.06**	**400**	**0.15**	**810**	< 0.002	< 12	**0.092**	**370**	**0.01**	**40**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0024**	**9.5**	< 0.003	< 9.6	< 1.2	< 4200	**0.3144**	**1629.5**
VGACI	5/29/2014	VGACI-052914-0001	**0.098**	**670**	**0.64**	**3400**	< 0.002	< 12	**0.3**	**1000**	**0.021**	**85**	< 0.0025	< 10	**0.0075**	**19**	**0.0045**	**18**	< 0.0022	< 10	**0.0077**	**31**	< 0.003	< 9.6	**1.7**	**6000**	**2.7787**	**11223**
VGACI	6/26/2014	VGACI-062614-0001	**0.13**	**880**	**0.41**	**2200**	< 0.02	< 100	**0.21**	**830**	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	< 2.4	< 8500	**0.75**	**3910**
VGACI	7/29/2014	VGACI-072914-0001	**0.12**	**820**	**0.1**	**500**	< 0.01	< 60	**0.049**	**190**	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**2.8**	**9900**	**3.069**	**11410**
VGACI	9/22/2014	VGACI-092214-0001	**0.064**	**430**	**0.2**	**1000**	< 0.005	< 30	**0.1**	**400**	**0.0083**	**34**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.3723**	**1864**
VGACI	10/23/2014	VGACI-102314-0001	**0.12**	**820**	**0.25**	**1300**	< 0.01	< 60	**0.11**	**440**	**0.012**	**49**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**1.3**	**4600**	**1.792**	**7209**
VGACI	11/24/2014	VGACI-112414-0001	**0.23**	**1600**	**0.54**	**2900**	< 0.002	< 12	**0.25**	**990**	**0.015**	**61**	< 0.0025	< 10	**0.0049**	**13**	**0.0026**	**10**	< 0.0022	< 10	**0.0051**	**20**	< 0.003	< 9.6	**1.3**	**4600**	**2.3476**	**10194**
VGACI	12/10/2014	VGACI-121014-0001	**0.36**	**2400**	**1.9**	**10000**	< 0.008	< 48	**0.86**	**3400**	**0.052**	**210**	< 0.01	< 40	**0.023**	**59**	**0.013**	**52**	< 0.0088	< 41	**0.017**	**67**	< 0.012	< 38	**4.1**	**14000**	**7.325**	**30188**
VGACI	1/20/2015	VGACI-012015-0001	**0.26**	**1800**	**0.73**	**3900**	< 0.06	< 400	**0.32**	**1300**	< 0.06	< 200	< 0.075	< 300	< 0.12	< 310	< 0.06	< 200	< 0.066	< 310	< 0.06	< 200	< 0.09	< 300	**2.2**	**7700**	**3.51**	**14700**
VGACI	2/17/2015	VGACI-021715-0001	**0.2**	**1000**	**0.43**	**2300**	< 0.03	< 200	**0.25**	**990**	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**1.5**	**5300**	**2.38**	**9590**
VGACI	3/26/2015	VGACI-032615-001	**0.14**	**950**	**0.4**	**2000**	< 0.03	< 200	**0.2**	**800**	< 0.03	< 100	< 0.038	< 150	< 0.058	< 150	< 0.03	< 100	< 0.033	< 150	< 0.03	< 100	< 0.045	< 140	**1.9**	**6700**	**2.64**	**10450**
VGACI	4/30/2015	VGAC-INF-043015-0001	**0.17**	**1200**	**0.091**	**490**	< 0.01	< 60	**0.053**	**210**	< 0.01	< 40	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	< 1.2	< 4200	**0.314**	**1900**
VGACI	5/28/2015	VGACI-052815-0001	**0.078**	**530**	**0.047**	**250**	< 0.002	< 12	**0.019**	**75**	**0.0026**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1466**	**866**
VGACI	6/16/2015	SVE-INF-061615-0001	**0.11**	**750**	**0.0079**	**43**	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.1179**	**793**
VGACI	7/7/2015	SVE-VGACI-070715-0001	**0.038**	**260**	**0.0072**	**39**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0452**	**299**
VGACI	8/26/2015	SVE-VGACI-082615-0001	**0.033**	**220**	**0.0097**	**52**	< 0.002	< 12	**0.0059**	**23**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0486**	**295**
VGACI	9/16/2015	SVE-VGACI-091615-0001	**0.048**	**330**	**0.07**	**400**	< 0.002	< 12	**0.026**	**100**	**0.0039**	**16**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1479**	**846**
VGACI	10/14/2015	SVE-VGACI-101415-0001	**0.033**	**220**	**0.075**	**400**	< 0.002	< 12	**0.031**	**120**	**0.0039**	**16**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1429**	**756**
VGACI	11/18/2015	SVE-VGACI-111815-0001	**0.13**	**880**	**0.22**	**1200**	< 0.002	< 12	**0.08**	**300**	**0.01**	**40**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0031**	**12**	< 0.003	< 9.6	< 1.2	< 4200	**0.4431**	**2432**
VGACI	12/9/2015	SVE-VGACI-120915-0001	**0.085**	**580**	**0.14**	**750**	< 0.002	< 12	**0.063**	**250**	**0.0079**	**32**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0027**	**11**	< 0.003	< 9.6	< 1.2	< 4200	**0.2986**	**1623**
VGACI	1/14/2016	SVE-VGACI-011416-0001	**0.056**	**380**	**0.051**	**270**	< 0.005	< 30	**0.026**	**100**	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.133**	**750**
VGACI	2/17/2016	SVE-VGACI-021716-0001	**0.11**	**750**	**0.2**	**1000**	< 0.005	< 30	**0.1**	**400**	**0.0099**	**40**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.4199**	**2190**
VGACI	3/23/2016	SVE-VGACI-032316-0001	**0.11**	**750**	**0.03**	**200**	< 0.005	< 30	**0.0088**	**35**	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.1488**	**985**
VGACI	4/20/2016	SVE-VGACI-042016-0001	**0.13**	**880**	**0.054**	**290**	< 0.005	< 30	**0.019**	**75**	< 0.005	< 20	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.203**	**1245**
VGACI	7/20/2016	SVE-VGACI-072016-0001	**0.27**	**1800**	**0.066**	**360**	< 0.005	< 30	**0.034**	**130**	**0.013**	**53**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	**1.5**	**5300**	**1.883**	**7643**
VGACI	10/19/2016	SVE-VGACI-101916-0001	**0.16**	**1100**	**0.11**	**590**	< 0.005	< 30	**0.068**	**270**	**0.01**	**40**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.348**	**2000**
VGACI	10/26/2016	SVE-VGACI-102616-0001	**0.044**	**300**	**0.35**	**1900**	< 0.005	< 30	**0.17**	**670**	**0.02**	**80**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	**0.0071**	**28**	< 0.0075	< 24	< 1.2	< 4200	**0.5911**	**2978**
VGACI	11/2/2016	SVE-VGACI-110216-0001	**1.3**	**8800**	**0.25**	**1300**	< 0.04	< 200	**0.089**	**350**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**4.5**	**16000**	**6.139**	**26450**
VGACI	11/16/2016	SVE-VGACI-111616-0001	**0.96**	**6500**	**0.17**	**910**	< 0.02	< 100	**0.069**	**270**	< 0.02	< 80	< 0.025	< 100	< 0.039	< 100	< 0.02	< 80	< 0.022	< 100	< 0.02	< 80	< 0.03	< 100	**3**	**10000**	**4.199**	**17680**
VGACI	11/23/2016	SVE-VGACI-112316-0001	**8.6**	**58000**	**1.2**	**6500**	< 0.04	< 200	**0.35**	**1400**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**6.2**	**22000**	**16.35**	**87900**
VGACI	12/7/2016	SVE-VGACI-120716-0001	**0.064**	**430**	**0.41**	**2200**	< 0.002	< 12	**0.29**	**1200**	**0.031**	**130**	< 0.0025	< 10	**0.0083**	**21**	**0.0092**	**37**	< 0.0022	< 10	**0.011**	**44**	< 0.003	< 9.6	< 1.2	< 4200	**0.8235**	**4062**
VGACI	12/14/2016	SVE-VGACI-121416-0001	**0.14**	**950**	**0.11**	**590**	< 0.004	< 24	**0.061**	**240**	**0.0085**	**34**	< 0.005	< 20	< 0.0078	< 20	**0.0052**	**21**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.3247**	**1835**
VGACI	12/21/2016	SVE-VGACI-122116-0001	**0.054**	**370**	**0.35**	**1900**	< 0.005	< 30	**0.23**	**910**	**0.022**	**89**	< 0.0062	< 25	< 0.0098	< 25	**0.0062**	**25**	< 0.0055	< 25	**0.007**	**28**	< 0.0075	< 24	< 1.2	< 4200	**0.6692**	**3322**
VGACI	12/27/2016	SVE-VGACI-122716-0001	**0.15**	**1000**	**0.11**	**590**	< 0.004	< 24	**0.06**	**200**	**0.0086**	**35**	< 0.005	< 20	< 0.0078	< 20	**0.0053**	**21**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.3339**	**1846**
VGACI	3/22/2017	SVE-VGACI-032217-0001	**0.25**	**1700**	**0.046**	**250**	< 0.001	< 6.0	**0.012**	**48**	**0.0066**	**27**	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	< 1.2	< 4200	**0.3146**	**2025**
VGACI	4/5/2017	SVE-VGACI-040517-0001	**0.19**	**1300**	**0.11**	**590**	< 0.002	< 12	**0.057**	**230**	**0.0086**	**35**	< 0.0025	< 10	< 0.0039	< 10	**0.0029**	**12**	< 0.0022	< 10	**0.0033**	**13**	< 0.003	< 9.6	NT	NT	**0.3718**	**2180**
VGACI	4/5/2017	SVE-VGACI-040517-0002	**0.03**	**200**	**0.8**	**4000**	< 0.005	< 30	**0.59**	**2300**	**0.04**	**200**	< 0.0062	< 25	< 0.0098	< 25	**0.0055**	**22**	< 0.0055	< 25	**0.016**	**64**	< 0.0075	< 24	NT	NT	**1.4815**	**6786**
VGACI	4/12/2017	SVE-VGACI-041217-0001	**0.1**	**700**	**0.48**	**2600**	< 0.002	< 12	**0.31**	**1200**	**0.034**	**140**	< 0.0025	< 10	**0.015**	**38**	**0.0098**	**39**	< 0.0022	< 10	**0.012**	**48**	< 0.003	< 9.6	**1.3**	**4600**	**2.2608**	**9365**
VGACI	4/12/2017	SVE-VGACI-041217-0002	**0.42**	**2900**	**0.05**	**300**	< 0.002	< 12	**0.023**	**91**	**0.01**	**40**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.503**	**3331**
VGACI	4/19/2017	SVE-VGACI-041917-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	ND	ND
VGACI	4/19/2017	SVE-VGACI-041917-0002	**0.12**	**820**	**0.031**	**170**	< 0.002	< 12	**0.0069**	**27**	**0.002**	**8.1**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.1599**	**1025.1**
VGACI	4/26/2017	SVE-VGACI-042617-0001	**0.065**	**440**	**0.043**	**230**	< 0.004	< 24	**0.029**	**120**	**0.0043**	**17**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.1413**	**807**
VGACI	4/26/2017	SVE-VGACI-042617-0002	**0.024**	**160**	**0.65**	**3500**	< 0.01	< 60	**0.58**	**2300**	**0.053**	**210**	< 0.012	< 49	**0.021**	**54**	**0.011**	**44**	< 0.011	< 51	**0.022**	**87**	< 0.015	< 48	NT	NT	**1.361**	**6355**
VGACI	5/3/2017	SVE-VGACI-050317-0001	**0.056**	**380**	**0.26**	**1400**	< 0.01	< 60	**0.21**	**830**	**0.024**	**97**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	**0.011**	**44**	< 0.015	< 48	NT	NT	**0.561**	**2751**
VGACI	5/3/2017	SVE-VGACI-050317-0002	**0.13**	**880**	**0.0081**	**44**	< 0.002	< 12	**0.0052**	**21**	**0.0028**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.1461**	**956**
VGACI	5/10/2017	SVE-VGACI-051017-0001	**0.12**	**820**	**0.008**	**43**	< 0.002	< 12	**0.0036**	**14**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.1316**	**877**
VGACI	5/10/2017	SVE-VGACI-051017-0002	**0.15**	**1000**	**0.051**	**270**	< 0.002	< 12	**0.0097**	**39**	**0.0028**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.2135**	**1320**
VGACI	5/17/2017	SVE-VGACI-051717-0001	**0.13**	**880**	**0.072**	**390**	< 0.002	< 12	**0.038**	**150**	**0.0062**	**25**	< 0.0025	< 10	< 0.0039	< 10	**0.0022**	**8.7**	< 0.0022	< 10	**0.0023**	**9.1**	< 0.003	< 9.6	< 1.2	< 4200	**0.2507**	**1462.8**
VGACI	5/17/2017	SVE-VGACI-051717-0002	**0.018**	**120**	**0.5**	**3000**	< 0.004	< 24	**0.34**	**1300**	**0.037**	**150**	< 0.005	< 20	**0.015**	**38**	**0.012**	**48**	< 0.0044	< 20	**0.016**	**64**	< 0.006	< 19	NT	NT	**0.938**	**4720**
VGACI	5/24/2017	SVE-VGACI-052417-0001	**0.058**	**390**	**0.28**	**1500**	< 0.0005	< 3.0	**0.2**	**800**	**0.014**	**57**	< 0.00062	< 2.5	**0.0051**	**13**	**0.0036**	**14**	< 0.00055	< 2.5	**0.0052**	**21**	**0.001**	**3.2**	NT	NT	**0.5669**	**2798.2**
VGACI	5/24/2017	SVE-VGACI-052417-0002	**0.14**	**950**	**0.0081**	**44**	< 0.0005	< 3.0	**0.0033**	**13**	**0.0022**	**8.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	NT	NT	**0.1536**	**1015.9**
VGACI	10/4/2017	SVE-VGACI-100417-0001	**0.19**	**1300**	**0.15**	**810**	< 0.002	< 12	**0.076**	**300**	**0.019**	**77**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0067**	**27**	< 0.003	< 9.6	NT	NT	**0.4417**	**2514**
VGACI	10/11/2017	SVE-VGACI-101117-0001	**0.13**	**880**	**0.18**	**970**	< 0.004	< 24	**0.15**	**600**	**0.026**	**110**	< 0.005	< 20	**0.008**	**20**	**0.0099**	**39**	< 0.0044	< 20	**0.011**	**44**	< 0.006	< 19	< 1.2	< 4200	**0.5149**	**2663**
VGACI	10/25/2017	SVE-VGACI-102517-0001	**0.13**	**880**	**0.19**	**1000**	< 0.002	< 12	**0.11**	**440**	**0.022**	**89**	< 0.0025	< 10	< 0.0039	< 10	**0.0084**	**33**	< 0.0022	< 10	**0.009**	**36**	< 0.003	< 9.6	NT	NT	**0.4694**	**2478**
VGACI	11/8/2017	SVE-VGACI-110817-001	**0.12**	**820**	**0.18**	**970**	< 0.01	< 60	**0.11**	**440**	**0.019**	**77**	< 0.012	< 49	< 0.02	< 50	< 0.01	< 40	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	NT	NT	**0.429**	**2307**
VGACI	11/29/2017	SVE-VGACI-112917-0001	**0.12**	**820**	**0.13**	**700**	< 0.004	< 24	**0.078**	**310**	**0.013**	**53**	< 0.005	< 20	< 0.0078	< 20	**0.0065**	**26**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.3475**	**1909**
VGACI	12/13/2017	SVE-VGACI-121317-0001	**0.13**	**880**	**0.14**	**750**	< 0.004	< 24	**0.08**	**300**	**0.018**	**73**	< 0.005	< 20	< 0.0078	< 20	**0.0058**	**23**	< 0.0044	< 20	**0.0061**	**24**	< 0.006	< 19	**1.4**	**4900**	**1.7799**	**6950**
VGACI	12/27/2017	SVE-VGACI-122717-0001	< 0.004	< 27	**0.021**	**110**	< 0.004	< 24	**0.065**	**260**	**0.018 J**	**73 J**	< 0.005	< 20	< 0.0078	< 20	**0.0081**	**32**	< 0.0044	< 20	**0.0047**	**19**	< 0.006	< 19	NT	NT	**0.1168**	**494**
VGACI	1/31/2018	SVE-VGACI-013118-0001	**0.11**	**750**	**0.096**	**520**	< 0.004	< 24	**0.06**	**200**	**0.014**	**57**	< 0.005	< 20	< 0.0078	< 20	**0.0044**	**17**	< 0.0044	< 20	**0.0049**	**19**	< 0.006	< 19	**1.7**	**6000**	**1.9893**	**7563**
VGACI	5/2/2018	SVE-VGACI-050218-0001	**0.15**	**1000**	**0.071**	**380**	< 0.004	< 24	**0.025**	**99**	**0.0091**	**37**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.2551**	**1516**
VGACI	5/16/2018	SVE-VGACI-051618-0001	**0.095**	**650**	**0.082**	**440**	< 0.0005 J	< 3.0 J	**0.034**	**130**	**0.011**	**45**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0025**	**9.9**	**0.00056**	**2.6**	**0.0031**	**12**	**0.00088**	**2.8**	NT	NT	**0.22904**	**1292.3**
VGACI	6/20/2018	SVE-VGACI-062018-0001	**0.11**	**750**	**0.12**	**650**	< 0.004	< 24	**0.072**	**290**	**0.018**	**73**	< 0.005	< 20	< 0.0078	< 20	**0.007**	**28**	< 0.0044	< 20	**0.0061**	**24**	< 0.006	< 19	**1.3**	**4600**	**1.6331**	**6415**
VGACI	7/18/2018	SVE-VGACI-071818-0001	**0.14**	**950**	**0.12**	**650**	< 0.004	< 24	**0.066**	**260**	**0.012**	**49**	< 0.005	< 20	< 0.0078	< 20	**0.0055**	**22**	< 0.0044	< 20	**0.0044**	**17**	< 0.006	< 19	**1.2**	**4200**	**1.5479**	**6148**
VGACI	8/15/2018	SVE-VGACI-081518-0001	**0.17**	**1200**	**0.15**	**810**	< 0.004	< 24	**0.069**	**270**	**0.016**	**65**	< 0.005	< 20	< 0.0078	< 20	**0.0077**	**31**	< 0.0044	< 20	**0.0059**	**23**	< 0.006	< 19	**1.6**	**5600**	**2.0186**	**7999**
VGACI	9/19/2018	SVE-VGACI-091918-0001	**0.17**	**1200**	**0.099**	**530**	< 0.004	< 24	**0.054**	**210**	**0.014**	**57**	< 0.005	< 20	< 0.0078 J	< 20 J	**0.0082**	**33**	< 0.0044	< 20	**0.0058**	**23**	< 0.006	< 19	< 1.2	< 4200	**0.351**	**2053**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACI	10/3/2018	SVE-VGACI-100318-001	**0.19**	**1300**	**0.087**	**470**	< 0.004	< 24	**0.051**	**200**	**0.017**	**69**	< 0.005	< 20	< 0.0078	< 20	**0.0085**	**34**	< 0.0044	< 20	**0.0065**	**26**	< 0.006	< 19	NT	NT	**0.36**	**2099**
VGACI	10/3/2018	SVE-VGACI-100318-002	**0.015**	**100**	**0.0085**	**46**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.0235**	**146**
VGACI	10/10/2018	SVE-VGACI-101018-0001	**0.15**	**1000**	**0.009**	**48**	< 0.004	< 24	**0.0072**	**29**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.1662**	**1077**
VGACI	10/24/2018	SVE-VGACI-102418-0001	**0.11**	**750**	**0.0068**	**37**	< 0.004	< 24	**0.0054**	**21**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 2.4	< 8500	**0.1222**	**808**
VGACI	11/14/2018	SVE-VGACI-111418-0001	**0.13**	**880**	**0.0074**	**40**	< 0.004	< 24	**0.0066**	**26**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.144**	**946**
VGACI	12/27/2018	SVE-VGACI-122718-0001	**0.11**	**750**	**0.068**	**370**	< 0.004	< 24	**0.031**	**120**	**0.0099**	**40**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.2189**	**1280**
VGACI	1/9/2019	SVE-VGACI-010919-0001	**0.13**	**880**	**0.069**	**370**	< 0.004	< 24	**0.041**	**160**	**0.011**	**45**	< 0.005	< 20	< 0.0078	< 20	**0.0054**	**21**	< 0.0044	< 20	**0.0041**	**16**	< 0.006	< 19	< 1.2	< 4200	**0.2605**	**1492**
VGACI	2/20/2019	SVE-VGACI-022019-0001	**0.098**	**670**	**0.021**	**110**	< 0.0005	< 3.0	**0.012**	**48**	**0.0055**	**22**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00066**	**2.6**	< 0.00055	< 2.5	**0.0014**	**5.6**	< 0.00075	< 2.4	NT	NT	**0.13856**	**858.2**
VGACI	3/6/2019	SVE-VGACI-030619-0001	**0.061**	**410**	**0.03**	**200**	< 0.002	< 12	**0.016**	**64**	**0.0042**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1112**	**691**
VGACI	5/1/2019	SVE-VGACI-050119-0001	**0.12**	**820**	**0.058**	**310**	< 0.004	< 24	**0.031**	**120**	**0.0089**	**36**	< 0.005	< 20	< 0.0078	< 20	**0.0042**	**17**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.2221**	**1303**
VGACI	6/12/2019	SVE-VGACI-061219-0001	**0.12**	**820**	**0.041**	**220**	< 0.002	< 12	**0.018**	**71**	**0.0072**	**29**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0025**	**9.9**	< 0.003	< 9.6	NT	NT	**0.1887**	**1149.9**
VGACI	6/26/2019	SVE-VGACI-062619-0001	**0.13**	**880**	**0.075**	**400**	< 0.004	< 24	**0.052**	**210**	**0.012**	**49**	< 0.005	< 20	< 0.0078	< 20	**0.0053**	**21**	< 0.0044	< 20	**0.005**	**20**	< 0.006	< 19	< 1.2	< 4200	**0.2793**	**1580**
VGACI	9/25/2019	VGACI-092519-0001	**0.46**	**3100**	**0.075**	**400**	< 0.004	< 24	**0.045**	**180**	**0.011**	**45**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.591**	**3725**
VGACI	10/9/2019	SVE-VGACI-100919-0001	**0.34 J**	**2300 J**	**0.073**	**390**	< 0.004	< 24	**0.087**	**350**	**0.0043**	**17**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**1.2**	**4200**	**1.7043**	**7257**
VGACI	11/26/2019	SVE-VGACI-112619-0001	**0.13**	**880**	**0.0068**	**37**	< 0.004	< 24	**0.017**	**67**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1538**	**984**
VGACI	12/11/2019	SVE-VGACI-121119-0001	**0.11**	**750**	**0.0058**	**31**	< 0.004	< 24	**0.012**	**48**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1278**	**829**
VGACI	2/19/2020	VGACI-021920-0001	**0.34 J**	**2300 J**	**0.019**	**100**	< 0.004	< 24	**0.011**	**44**	**0.0053**	**21**	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	NT	NT	**0.3753**	**2465**
VGACI	2/26/2020	SVE-VGACI-022620-0001	**0.16**	**1100**	**0.0075**	**40**	< 0.004	< 24	**0.01**	**40**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1775**	**1180**
VGACI	3/18/2020	SVE-VGACI-031820-0001	**0.17**	**1200**	**0.0069**	**37**	< 0.004	< 24	**0.0041**	**16**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.181**	**1253**
VGACI	4/15/2020	SVE-VGACI-041520-0001	**0.085**	**580**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.085**	**580**
VGACI	5/6/2020	SVE-VGACI-050620-0001	**0.24**	**1600**	**0.0092**	**50**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.2492**	**1650**
VGACI	6/10/2020	SVE-VGACI-061020-0001	**0.16**	**1100**	**0.0054**	**29**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1654**	**1129**
VGACI	7/8/2020	SVE-VGACI-070820-0001	**0.13**	**880**	**0.0058**	**31**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1358**	**911**
VGACI	8/5/2020	SVE-VGACI-080520-0001	**0.17**	**1200**	**0.0064**	**34**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1764**	**1234**
VGACI	9/9/2020	SVE-VGACI-090920-0001	**0.19**	**1300**	**0.0059**	**32**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1959**	**1332**
VGACI	10/7/2020	SVE-VGACI-100720-0001	**0.12**	**820**	**0.0043**	**23**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1243**	**843**
VGACI	11/18/2020	SVE-VGACI-111820-0001	**0.15**	**1000**	**0.0036**	**19**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1536**	**1019**
VGACI	12/2/2020	SVE-VGACI-120220-0001	**1.7 J**	**12000 J**	**0.034**	**180**	< 0.002	< 12	**0.017**	**67**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**1.7564**	**12269**
VGACI	1/13/2021	SVE-VGACI-011321-0001	**0.13 J**	**880 J**	**0.0073**	**39**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1373**	**919**
VGACI	2/17/2021	SVE-VGACI-021721-0001	**0.074**	**500**	**0.043**	**230**	< 0.002	< 12	**0.026**	**100**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0027**	**11**	< 0.003	< 9.6	< 1.2	< 4200	**0.1511**	**863**
VGACI	3/10/2021	SVE-VGACI-031021-0001	**0.062**	**420**	**0.04**	**200**	< 0.002	< 12	**0.02**	**80**	**0.0043**	**17**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1263**	**717**
VGACI	4/14/2021	SVE-VGACI-041421-0001	**0.0049**	**33**	**0.0029**	**16**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0078**	**49**
VGACI	5/12/2021	SVE-VGACI-051221-0001	**0.058**	**390**	**0.026**	**140**	< 0.002	< 12	**0.014**	**56**	**0.0034**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1014**	**600**
VGACI	6/9/2021	SVE-VGACI-060921-0001	**0.086**	**580**	**0.031**	**170**	< 0.002	< 12	**0.013**	**52**	**0.0028**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1328**	**813**
VGACI	7/7/2021	SVE-VGACI-070721-0001	**0.088**	**600**	**0.025**	**130**	< 0.002	< 10	**0.011**	**44**	**0.0022**	**8.9**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.1262**	**782.9**
VGACI	8/4/2021	SVE-VGACI-080421-0001	**0.088**	**600**	**0.024**	**130**	< 0.002	< 10	**0.01**	**40**	**0.0024**	**9.7**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.1244**	**779.7**
VGACI	9/8/2021	SVE-VGACI-090821-0001	**0.092**	**630**	**0.03**	**200**	< 0.002	< 10	**0.015**	**60**	**0.0033**	**13**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.1403**	**903**
VGACI	10/4/2021	SVE-VGACI-100421-0001	**0.1 J**	**700 J**	**0.031**	**170**	< 0.002	< 10	**0.014**	**56**	**0.003**	**10**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.148**	**936**
VGACI	11/29/2021	SVE-VGACI-112921-0001	**0.12 J**	**820 J**	**0.004**	**20**	< 0.002	< 10	**0.003**	**10**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.127**	**850**
VGACI	12/13/2021	SVE-VGACI-121321-0001	**0.13**	**880**	**0.0032**	**17**	< 0.002	< 10	**0.0028**	**11**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.136**	**908**
VGACI	1/12/2022	SVE-VGACI-011222-0001	**0.11**	**750**	**0.0033**	**18**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2 J	< 4200 J	**0.1133**	**768**
VGACI	2/9/2022	SVE-VGACI-020922-0001	**0.3 J**	**2000 J**	**0.0078**	**42**	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	**0.0078**	**36**	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.3182**	**2088**
VGACI	3/9/2022	SVE-VGACI-030922-0001	**0.37 J**	**2500 J**	**0.025**	**130**	< 0.002 J	< 12 J	**0.007**	**28**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.3**	**4600**	**1.702**	**7258**
VGACI	4/4/2022	SVE-VGACI-040422-0001	**0.16 J**	**1100 J**	**0.015**	**81**	< 0.002	< 12	**0.0036**	**14**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1786**	**1195**
VGACI	5/4/2022	SVE-VGACI-050422-0001	**0.32 J**	**2200 J**	**0.017**	**91**	< 0.002 J	< 12 J	**0.0031**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.3401**	**2303**
VGACI	6/1/2022	SVE-VGACI-060122-0001	**0.16**	**1100**	**0.018**	**97**	< 0.002	< 12	**0.0038**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1818**	**1212**
VGACI	7/11/2022	SVE-VGACI-071122-0001	**0.25**	**1700**	**0.022**	**120**	< 0.002	< 12	**0.0046**	**18**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.2766**	**1838**
VGACI	8/10/2022	SVE-VGACI-081022-0001	**0.17 J**	**1200 J**	**0.015**	**81**	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1876**	**1291**
VGACI	9/7/2022	SVE-VGACI-090722	**0.29**	**2000**	**0.0059**	**32**	< 0.002	< 12	**0.0031**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.299**	**2044**
VGACI	10/5/2022	SVE-VGACI-100522	**0.32**	**2200**	**0.005**	**27**	< 0.002	< 12	**0.0028**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.3278**	**2238**
VGACI	11/2/2022	SVE-VGACI-110222	**0.18**	**1200**	**0.0036**	**19**	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1862**	**1229**
VGACI	12/7/2022	SVE-VGACI-120722	**0.11**	**750**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.11**	**750**
VGACI	1/4/2023	SVE-VGACI-010423	**0.09**	**600**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.09**	**600**
VGACI	2/1/2023	SVE-VGACI-020123	**0.087**	**590**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.087**	**590**
VGACI	3/1/2023	SVE-VGACI-030123	**0.11**	**750**	**0.002**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.112**	**761**
VGACI	4/13/2023	SVE-VGACI-041323	**0.084**	**570**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.084**	**570**
VGACI	5/3/2023	SVE-VGACI-050323	**0.11**	**750**	**0.0022**	**12**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1122**	**762**
VGACI	6/7/2023	SVE-VGACI-060723	**1 J**	**7000 J**	**0.015**	**81**	< 0.002	< 12	**0.0036**	**14**	**0.0023**	**9.3**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.6**	**5600**	**2.6209**	**12704.3**
VGACI	7/5/2023	SVE-Pre-Blower-070523	**0.99**	**6700**	**0.014**	**75**	< 0.002	< 12	**0.0038**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.4**	**4900**	**2.4078**	**11690**
VGACI	8/2/2023	SVE-VGACI-080223	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0021**	**8.3**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0021**	**8.3**
VGACI	9/5/2023	SVE-VGACI-090523	**0.19**	**1300**	**0.0051 J**	**27 J**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1951**	**1327**
VGACI	10/11/2023	SVE-VGACI-101123	**0.36**	**2400**	**0.007**	**38**	< 0.002	< 12	**0.0038**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.3708**	**2453**
VGACI	11/15/2023	SVE-VGACI-111523	**0.33**	**2200**	**0.0062**	**33**	< 0.002	< 12	**0.0041**	**16**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.3403**	**2249**
VGACI	12/6/2023	SVE-VGACI-120623	**0.31**	**2100**	**0.0046**	**25**	< 0.002	< 12	**0.003**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.8 J**	**6300 J**	**2.1176**	**8437**
VGACI	1/3/2024	SVE-VGACI-010324	**0.28**	**1900**	**0.0042**	**23**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.7 J**	**6000 J**	**1.9842**	**7923**
VGACI	2/7/2024	SVE-VGACI-020724	**0.17**	**1200**	**0.005**	**27**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.175**	**1227**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACI	3/6/2024	SVE-VGACI-030624	**0.14**	**950**	**0.0023**	**12**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1423**	**962**
VGACI	4/3/2024	SVE-VGACI-040324	**0.18**	**1200**	**0.0021**	**11**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1821**	**1211**
VGACI	5/8/2024	SVE-VGACI-050824	**0.16**	**1100**	**0.0028**	**15**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1628**	**1115**
VGACI	6/12/2024	SVE-VGACI-061224	**0.18**	**1200**	**0.0038**	**20**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.1838**	**1220**
VGACI	7/3/2024	SVE-VGACI-070324	**0.19**	**1300**	**0.0041**	**22**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.4**	**4900**	**1.5941**	**6222**
VGACI	8/6/2024	SVE-VGACI-080624	**0.18**	**1200**	**0.0041**	**22**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.6**	**5600**	**1.7841**	**6822**
VGACM	3/22/2011	VMGAC-032211	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACM	4/12/2011	V-MGAC-041211	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	**0.17**	**440**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.17**	**440**
VGACM	4/27/2011	VGAC2-042711	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	**0.0041**	**17**	**0.12**	**310**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.2	< 700	**0.1241**	**327**
VGACM	5/17/2011	VGAC2-051711	< 0.0021	< 14	< 0.0021	< 11	< 0.0021	< 13	< 0.0021	< 8.3	< 0.0021	< 8.5	< 0.0031	< 13	**0.053**	**140**	< 0.0021	< 8.3	< 0.0031	< 14	< 0.0021	< 8.3	**0.0016 J**	**5.1 J**	< 0.21	< 740	**0.0546**	**145.1**
VGACM	6/7/2011	VGAC2-060711	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.037 J**	**95 J**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.4 J**	**1000 J**	**0.437**	**1095**
VGACM	7/19/2011	VGAC2-071911	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.0034 J**	**14 J**	**0.038**	**97**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.58**	**2000**	**0.6214**	**2111**
VGACM	8/23/2011	VGAC2-082311	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.023**	**59**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.8**	**3000**	**0.823**	**3059**
VGACM	9/20/2011	VGAC2-092011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.011**	**28**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.5**	**2000**	**0.511**	**2028**
VGACM	10/11/2011	VGAC2-101111	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.0025 J**	**6.4 J**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.74**	**2600**	**0.7425**	**2606.4**
VGACM	1/13/2012	VGAC2-011312	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACM	2/21/2012	VGAC2-022112	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACM	3/27/2012	VGAC2-032712	**0.0095**	**65**	**0.044**	**240**	< 0.004	< 24	**0.21**	**830**	**0.058**	**240**	< 0.004	< 16	< 0.004	< 10	**0.02**	**80**	< 0.005	< 23	**0.013**	**52**	< 0.004	< 13	**0.49 J**	**1700 J**	**0.8445**	**3207**
VGACM	4/24/2012	VGAC2-042412	**0.0036 J**	**24 J**	**0.028**	**150**	< 0.004	< 24	**0.11**	**440**	**0.033**	**130**	< 0.004	< 16	< 0.004	< 10	**0.0081**	**32**	< 0.005	< 23	**0.0094**	**37**	< 0.004	< 13	**0.27 J**	**950 J**	**0.4621**	**1763**
VGACM	5/22/2012	VGAC2-052212	**0.0068 J**	**46 J**	**0.051 J**	**270 J**	< 0.004	< 24	**0.62**	**2500**	**0.5**	**2000**	< 0.004	< 16	**0.025 J**	**64 J**	**0.028 J**	**110 J**	< 0.005	< 23	**0.04 J**	**200 J**	**0.0024 J**	**7.7 J**	**3.1 J**	**11000 J**	**4.3732**	**16197.7**
VGACM	6/12/2012	VGAC2-061212	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	**0.54**	**2100**	**0.23**	**930**	< 0.008	< 32	**0.028**	**72**	**0.045**	**180**	< 0.01	< 50	**0.041**	**160**	< 0.008	< 26	**2.1**	**7400**	**2.984**	**10842**
VGACM	7/20/2012	VMID2-072012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	**0.0081**	**33**	< 0.004	< 16	**0.01**	**30**	**0.0037 J**	**15 J**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**1 J**	**4000 J**	**1.0218**	**4078**
VGACM	8/7/2012	VGAC2-080712	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	**0.0065**	**26**	< 0.004	< 16	**0.046**	**120**	**0.0053**	**21**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.0578**	**167**
VGACM	9/7/2012	VGAC2-090712	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.016**	**41**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**1.9 J**	**6700 J**	**1.916**	**6741**
VGACM	10/16/2012	VGAC2-101612	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.023**	**59**	**0.0029 J**	**12 J**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.0259**	**71**
VGACM	12/14/2012	VGAC2-121412 (sec carb inlet)	**0.0092**	**63**	< 0.0064	< 34	< 0.0064	< 39	< 0.0064	< 25	< 0.0064	< 26	< 0.0064	< 26	**0.0083**	**21**	< 0.0064	< 25	< 0.016	< 74	< 0.0064	< 25	**0.0067**	**21**	< 3.2	< 11000	**0.0242**	**105**
VGACM	4/2/2013	VGACM-040213-001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	< 0.005	< 20	< 0.0062	< 25	**0.032**	**82**	< 0.005	< 20	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	NT	NT	**0.032**	**82**
VGACM	4/23/2013	VGACM-042313-0001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	**0.044**	**180**	< 0.0062	< 25	**0.031**	**79**	**0.015**	**60**	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.4	< 4900	**0.09**	**319**
VGACM	5/21/2013	VGACM-052113-0001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	**0.027**	**110**	**0.034**	**140**	< 0.0062	< 25	**0.054**	**140**	**0.017**	**67**	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	**2.5**	**8800**	**2.632**	**9257**
VGACM	5/21/2013	VGACM-052113-0001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	**0.027**	**110**	**0.034**	**140**	< 0.0062	< 25	**0.054**	**140**	**0.017**	**67**	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	**2.5**	**8800**	**2.632**	**9257**
VGACM	6/26/2013	VGACM-062613-0001	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	< 0.008	< 32	**0.15**	**610**	< 0.0099	< 40	**0.038**	**97**	**0.042**	**170**	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	< 1.4	< 4900	**0.23**	**877**
VGACM	7/30/2013	VGACM-073013-0001	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	**0.13**	**520**	**0.082**	**330**	< 0.0099	< 40	**0.04**	**100**	**0.029**	**120**	< 0.0087	< 40	**0.0097**	**39**	< 0.012	< 38	**2.7**	**9500**	**2.9907**	**10609**
VGACM	9/12/2013	VGACM-091213-0001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	**0.15**	**600**	**0.11**	**450**	< 0.0062	< 25	**0.055**	**140**	**0.039**	**150**	< 0.0054	< 25	**0.011**	**44**	< 0.0075	< 24	< 1.4	< 4900	**0.365**	**1384**
VGACM	9/24/2013	VGACM-092413-0001	**0.0088**	**60**	**0.0074**	**40**	< 0.004	< 24	**0.66**	**2600**	**0.082**	**330**	< 0.005	< 20	**0.018**	**46**	**0.039**	**150**	< 0.0044	< 20	**0.028**	**110**	< 0.006	< 19	**3.9**	**14000**	**4.7432**	**17336**
VGACM	10/29/2013	VGACM-102913-0001	**0.072**	**490**	**0.78**	**4200**	< 0.04	< 200	**0.79**	**3100**	**0.067**	**270**	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**6.8**	**24000**	**8.509**	**32060**
VGACM	11/25/2013	VGACM-112513-0001	< 0.04	< 300	**0.06**	**300**	< 0.04	< 200	**0.62**	**2500**	**0.072**	**290**	< 0.05	< 200	< 0.078	< 200	**0.04**	**200**	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	< 1.2	< 4200	**0.792**	**3290**
VGACM	12/16/2013	VGACM-121613-0001	< 0.04	< 300	< 0.04	< 200	< 0.04	< 200	**0.76**	**3000**	**0.059**	**240**	< 0.05	< 200	**0.081**	**210**	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**1.7**	**6000**	**2.6**	**9450**
VGACM	1/27/2014	VGACM-012714-0001	**0.22**	**1500**	**1**	**5000**	< 0.04	< 200	**0.41**	**1600**	< 0.04	< 200	< 0.05	< 200	< 0.078	< 200	< 0.04	< 200	< 0.044	< 200	< 0.04	< 200	< 0.06	< 200	**5.9**	**21000**	**7.53**	**29100**
VGACM	2/24/2014	VGACM-022414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0048**	**12**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0048**	**12**
VGACM	3/24/2014	VGACM-032414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	4/29/2014	VGACM-042914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	5/29/2014	VGACM-052914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.006**	**15**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.006**	**15**
VGACM	6/26/2014	VGACM-062614-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.092**	**370**	**0.034**	**140**	< 0.0025	< 10	**0.006**	**15**	**0.013**	**52**	< 0.0022	< 10	**0.0037**	**15**	< 0.003	< 9.6	< 1.2	< 4200	**0.1487**	**592**
VGACM	7/29/2014	VGACM-072914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0049**	**13**	**0.0037**	**15**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0086**	**28**
VGACM	9/22/2014	VGACM-092214-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.01**	**40**	**0.0065**	**26**	< 0.0025	< 10	< 0.0039	< 10	**0.0049**	**19**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0214**	**85**
VGACM	10/23/2014	VGACM-102314-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.054**	**210**	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	**0.0042**	**17**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0722**	**284**
VGACM	11/24/2014	VGACM-112414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.077**	**310**	**0.017**	**69**	< 0.0025	< 10	**0.0058**	**15**	**0.0037**	**15**	< 0.0022	< 10	**0.003**	**12**	< 0.003	< 9.6	< 1.2	< 4200	**0.1065**	**421**
VGACM	12/10/2014	VGACM-121014-0001	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	**0.15**	**600**	**0.029**	**120**	< 0.01	< 40	< 0.016	< 41	< 0.008	< 32	< 0.0088	< 41	< 0.008	< 32	< 0.012	< 38	< 1.2	< 4200	**0.179**	**720**
VGACM	1/20/2015	VGACM-012015-0001	< 0.008	< 54	< 0.008	< 43	< 0.008	< 48	**0.38**	**1500**	**0.048**	**190**	< 0.01	< 40	< 0.016	< 41	**0.0081**	**32**	< 0.0088	< 41	**0.0091**	**36**	< 0.012	< 38	< 1.2	< 4200	**0.4452**	**1758**
VGACM	2/17/2015	VGACM-021715-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.011**	**44**	**0.017**	**69**	< 0.0025	< 10	**0.0064**	**16**	**0.006**	**24**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0404**	**153**
VGACM	3/26/2015	VGACM-032615-001	**0.0024**	**16**	**0.0039**	**21**	< 0.002	< 12	**0.03**	**100**	**0.018**	**73**	< 0.0025	< 10	< 0.0039	< 10	**0.0078 J**	**31 J**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0621**	**241**
VGACM	4/30/2015	VGAC-MID-043015-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.03**	**100**	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	**0.0049**	**19**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0459**	**164**
VGACM	5/28/2015	VGACM-052815-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.23**	**910**	**0.082**	**330**	< 0.0025	< 10	< 0.0039	< 10	**0.024**	**95**	< 0.0022	< 10	**0.0069**	**27**	< 0.003	< 9.6	< 1.2	< 4200	**0.3429**	**1362**
VGACM	6/16/2015	SVE-MID-061615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.056**	**220**	**0.01**	**40**	< 0.0025	< 10	< 0.0039	< 10	**0.0044**	**17**	< 0.0022	< 10	**0.0031**	**12**	< 0.003	< 9.6	< 1.2	< 4200	**0.0735**	**289**
VGACM	7/7/2015	SVE-VGACM-070715-0001	< 0.005	< 34	< 0.005	< 27	< 0.005	< 30	**0.044**	**170**	**0.006**	**24**	< 0.0062	< 25	< 0.0098	< 25	< 0.005	< 20	< 0.0055	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.2	< 4200	**0.05**	**194**
VGACM	8/26/2015	SVE-VGACM-082615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.12**	**480**	**0.0098**	**40**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0042**	**17**	< 0.003	< 9.6	< 1.2	< 4200	**0.134**	**537**
VGACM	9/16/2015	SVE-VGACM-091615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.088**	**350**	**0.0058**	**24**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0029**	**12**	< 0.003	< 9.6	< 1.2	< 4200	**0.0967**	**386**
VGACM	10/14/2015	SVE-VGACM-101415-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.065**	**260**	**0.0034**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0024**	**9.5**	< 0.003	< 9.6	< 1.2	< 4200	**0.0708**	**283.5**
VGACM	11/18/2015	SVE-VGACM-111815-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.043**	**170**	**0.0026**	**11**	< 0.0025	< 10	**0.0039**	**10**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0495**	**191**
VGACM	12/9/2015	SVE-VGACM-120915-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.042**	**170**	**0.0026**	**11**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0446**	**181**
VGACM	1/14/2016	SVE-VGACM-011416-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.018**	**71**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.018**	**71**
VGACM	2/17/2016	SVE-VGACM-021716-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.054**	**210**	**0.0061**	**25**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.002**	**7.9**	< 0.003	< 9.6	< 1.2	< 4200	**0.0621**	**242.9**
VGACM	3/23/2016	SVE-VGACM-032316-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.069**	**270**	**0.0071**	**29**	< 0.0025	< 10	< 0.0039	< 10	**0.002**	**7.9**	< 0.0022	< 10	**0.003**	**12**	< 0.003	< 9.6	< 1.2	< 4200	**0.0811**	**318.9**
VGACM	4/20/2016	SVE-VGACM-042016-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.061**	**240**	**0.0054**	**22**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0024**	**9.5**	< 0.003	< 9.6	< 1.2	< 4200	**0.0688**	**271.5**
VGACM	7/20/2016	SVE-VGACM-072016-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.12**	**480**	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	**0.0048**	**19**	< 0.003	< 10	< 1.2	< 4200	**0.1358**	**544**
VGACM	10/19/2016	SVE-VGACM-101916-0001	< 0.002	< 14	**0.0027**	**15**	< 0.002	< 12	**0.28**	**1100**	**0.035**	**140**	< 0.0025	< 10	< 0.0039	< 10	**0.0029**	**12**	< 0.0022	< 10	**0.0079**	**31**	< 0.003	< 9.6	< 1.2	< 4200	**0.3285**	**1298**
VGACM	11/16/2016	SVE-VGACM-111616-0001	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.094**	**370**	**0.013**	**53**	< 0.005	< 20	< 0.0078	< 20	**0.0048**	**19**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.1118**	**442**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACM	12/14/2016	SVE-VGACM-121416-0001	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.21**	**830**	**0.013**	**53**	< 0.005	< 20	< 0.0078	< 20	**0.0056**	**22**	< 0.0044	< 20	**0.0092**	**37**	< 0.006	< 19	< 1.2	< 4200	**0.2378**	**942**
VGACM	3/22/2017	SVE-VGACM-032217-0001	< 0.0005	< 3.4	**0.0022**	**12**	< 0.0005	< 3.0	**0.27**	**1100**	**0.012**	**49**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0051**	**20**	< 0.00055	< 2.5	**0.0062**	**25**	< 0.00075	< 2.4	< 1.2	< 4200	**0.2955**	**1206**
VGACM	4/12/2017	SVE-VGACM-041217-0001	< 0.002	< 14	**0.055**	**300**	< 0.002	< 12	**0.36**	**1400**	**0.028**	**110**	< 0.0025	< 10	**0.014**	**36**	**0.0067**	**27**	< 0.0022	< 10	**0.011**	**44**	< 0.003	< 9.6	**1.3**	**4600**	**1.7747**	**6517**
VGACM	5/17/2017	SVE-VGACM-051717-0001	**0.021**	**140**	**0.069**	**370**	< 0.0005	< 3.0	**0.079**	**310**	**0.0068**	**28**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0025**	**9.9**	< 0.00055	< 2.5	**0.0032**	**13**	< 0.00075	< 2.4	< 1.2	< 4200	**0.1815**	**870.9**
VGACM	10/11/2017	SVE-VGACM-101117-0001	**0.14**	**950**	**0.26**	**1400**	**0.0012**	**7.2**	**0.14**	**560**	**0.026**	**110**	< 0.00062	< 2.5	**0.0013**	**3.3**	**0.00096**	**3.8**	**0.0013**	**6.0**	**0.0025**	**9.9**	**0.0027**	**8.6**	< 1.2	< 4200	**0.57596**	**3058.8**
VGACM	11/29/2017	SVE-VGACM-112917-0001	**0.016**	**110**	**0.15**	**810**	< 0.004	< 24	**0.13**	**520**	**0.018**	**73**	< 0.005	< 20	< 0.0078	< 20	**0.011**	**44**	< 0.0044	< 20	**0.0063**	**25**	< 0.006	< 19	< 1.2	< 4200	**0.3313**	**1582**
VGACM	12/13/2017	SVE-VGACM-121317-0001	**0.011**	**75**	**0.1**	**500**	< 0.004	< 24	**0.093**	**370**	**0.022**	**89**	< 0.005	< 20	< 0.0078	< 20	**0.0074**	**29**	< 0.0044	< 20	**0.0066**	**26**	< 0.006	< 19	< 1.2	< 4200	**0.24**	**1089**
VGACM	1/31/2018	SVE-VGACM-013118-0001	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	**1.5**	**5300**	**1.5**	**5300**
VGACM	5/2/2018	SVE-VGACM-050218-0001	< 0.0005	< 3.4	**0.001**	**5.4**	< 0.0005	< 3.0	**0.00092**	**3.7**	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0069**	**18**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00882**	**27.1**
VGACM	6/20/2018	SVE-VGACM-062018-0001	< 0.0005	< 3.4	**0.005**	**27**	< 0.0005	< 3.0	**0.038**	**150**	**0.0069**	**28**	< 0.00062	< 2.5	**0.0027**	**6.9**	**0.0021**	**8.3**	< 0.00055	< 2.5	**0.0025**	**9.9**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0572**	**230.1**
VGACM	7/18/2018	SVE-VGACM-071818-0001	< 0.002	< 14	**0.033**	**180**	< 0.002	< 12	**0.068**	**270**	**0.017**	**69**	< 0.0025	< 10	< 0.0039	< 10	**0.0072**	**29**	< 0.0022	< 10	**0.0052**	**21**	< 0.003	< 9.6	< 1.2	< 4200	**0.1304**	**569**
VGACM	8/15/2018	SVE-VGACM-081518-0001	< 0.004	< 27	**0.041**	**220**	< 0.004	< 24	**0.065**	**260**	**0.015**	**61**	< 0.005	< 20	< 0.0078	< 20	**0.0069**	**27**	< 0.0044	< 20	**0.0051**	**20**	< 0.006	< 19	< 1.2	< 4200	**0.133**	**588**
VGACM	9/19/2018	SVE-VGACM-091918-0001	**0.0083**	**56**	**0.045**	**240**	< 0.004	< 24	**0.028**	**110**	**0.0067**	**27**	< 0.005	< 20	< 0.0078 J	< 20 J	**0.0045**	**18**	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.0925**	**451**
VGACM	10/24/2018	SVE-VGACM-102418-0001	**0.017**	**120**	**0.027**	**150**	< 0.004	< 24	**0.012**	**48**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 2.4	< 8500	**0.056**	**318**
VGACM	11/14/2018	SVE-VGACM-111418-0001	**0.015**	**100**	**0.018**	**97**	< 0.004	< 24	**0.0097**	**39**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.0427**	**236**
VGACM	1/9/2019	SVE-VGACM-010919-0001	**0.034**	**230**	**0.046**	**250**	< 0.004	< 24	**0.041**	**160**	**0.014**	**57**	< 0.005	< 20	< 0.0078	< 20	**0.0061**	**24**	< 0.0044	< 20	**0.0046**	**18**	< 0.006	< 19	< 1.2	< 4200	**0.1457**	**739**
VGACM	3/6/2019	SVE-VGACM-030619-0001	**0.024**	**160**	**0.027**	**150**	< 0.002	< 12	**0.017**	**67**	**0.0048**	**19**	< 0.0025	< 10	< 0.0039	< 10	**0.002**	**7.9**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0748**	**403.9**
VGACM	5/1/2019	SVE-VGACM-050119-0001	**0.032**	**220**	**0.037**	**200**	< 0.002	< 12	**0.023**	**91**	**0.0079**	**32**	< 0.0025	< 10	< 0.0039	< 10	**0.0039**	**15**	< 0.0022	< 10	**0.0028**	**11**	< 0.003	< 9.6	< 1.2	< 4200	**0.1066**	**569**
VGACM	6/26/2019	SVE-VGACM-062619-0001	**0.063**	**430**	**0.071**	**380**	< 0.004	< 24	**0.053**	**210**	**0.013**	**53**	< 0.005	< 20	< 0.0078	< 20	**0.0055**	**22**	< 0.0044	< 20	**0.0056**	**22**	< 0.006	< 19	< 1.2	< 4200	**0.2111**	**1117**
VGACM	10/9/2019	SVE-VGACM-100919-0001	**0.063**	**430**	**0.068**	**370**	< 0.004	< 24	**0.042**	**170**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.173**	**970**
VGACM	11/26/2019	SVE-VGACM-112619-0001	**0.016**	**110**	**0.04**	**200**	< 0.004	< 24	**0.025**	**99**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.081**	**409**
VGACM	12/11/2019	SVE-VGACM-121119-0001	**0.011**	**75**	**0.023**	**120**	< 0.004	< 24	**0.011**	**44**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.045**	**239**
VGACM	2/26/2020	SVE-VGACM-022620-0001	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.0043**	**17**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.0043**	**17**
VGACM	3/18/2020	SVE-VGACM-031820-0001	< 0.004	< 27	**0.0062**	**33**	< 0.004	< 24	**0.0076**	**30**	< 0.004	< 16	< 0.005	< 20	< 0.0078	< 20	< 0.004	< 16	< 0.0044	< 20	< 0.004	< 16	< 0.006	< 19	< 1.2	< 4200	**0.0138**	**63**
VGACM	4/15/2020	SVE-VGACM-041520-0001	< 0.002	< 14	**0.0074**	**40**	< 0.002	< 12	**0.007**	**28**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0144**	**68**
VGACM	5/6/2020	SVE-VGACM-050620-0001	< 0.002	< 14	**0.0082**	**44**	< 0.002	< 12	**0.0064**	**25**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0146**	**69**
VGACM	6/10/2020	SVE-VGACM-061020-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 4.8	< 17000	ND	ND
VGACM	7/8/2020	SVE-VGACM-070820-0001	< 0.002	< 14	**0.0063**	**34**	< 0.002	< 12	**0.0032**	**13**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0095**	**47**
VGACM	8/5/2020	SVE-VGACM-080520-0001	< 0.002	< 14	**0.0072**	**39**	< 0.002	< 12	**0.0025**	**9.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0097**	**48.9**
VGACM	9/9/2020	SVE-VGACM-090920-0001	< 0.002	< 14	**0.003**	**16**	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0052**	**24.7**
VGACM	10/7/2020	SVE-VGACM-100720-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	11/18/2020	SVE-VGACM-111820-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0071**	**28**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0071**	**28**
VGACM	12/2/2020	SVE-VGACM-120220-0001	**0.2 J**	**1000 J**	**0.0048**	**26**	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.207**	**1034.7**
VGACM	1/13/2021	SVE-VGACM-011321-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.004 J**	**16 J**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.004**	**16**
VGACM	2/17/2021	SVE-VGACM-021721-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	3/10/2021	SVE-VGACM-031021-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.003**	**12**
VGACM	4/14/2021	SVE-VGACM-041421-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.008**	**32**	**0.0059**	**24**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0139**	**56**
VGACM	5/12/2021	SVE-VGACM-051221-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0081**	**32**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0081**	**32**
VGACM	6/9/2021	SVE-VGACM-060921-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.02**	**80**	**0.0036**	**15**	< 0.0025	< 10	< 0.0039	< 10	**0.0027**	**11**	< 0.0022	< 10	**0.0023**	**9.1**	< 0.003	< 9.6	< 1.2	< 4200	**0.0286**	**115.1**
VGACM	7/7/2021	SVE-VGACM-070721-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.012**	**48**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.012**	**48**
VGACM	8/4/2021	SVE-VGACM-080421-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.027**	**110**	**0.0033**	**13**	< 0.0025	< 10	< 0.0039	< 10	**0.002**	**8**	< 0.0022	< 10	**0.0032**	**13**	< 0.003	< 10	< 1.2	< 4200	**0.0355**	**144**
VGACM	9/8/2021	SVE-VGACM-090821-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.013**	**52**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.013**	**52**
VGACM	10/4/2021	SVE-VGACM-100421-0001	< 0.002	< 10	**0.0025**	**13**	< 0.002	< 10	**0.021**	**83**	**0.0052**	**21**	< 0.0025	< 10	< 0.0039	< 10	**0.0021**	**8.3**	< 0.0022	< 10	**0.0022**	**8.7**	< 0.003	< 10	< 1.2	< 4200	**0.033**	**134**
VGACM	11/29/2021	SVE-VGACM-112921-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.0026**	**10**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.0026**	**10**
VGACM	12/13/2021	SVE-VGACM-121321-0001	**0.0035**	**24**	< 0.002	< 10	< 0.002	< 10	**0.0033**	**13**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.0068**	**37**
VGACM	1/12/2022	SVE-VGACM-011222-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2 J	< 4200 J	**0.0026**	**10**
VGACM	2/9/2022	SVE-VGACM-020922-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0078**	**31**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	**0.0058**	**27**	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0136**	**58**
VGACM	3/9/2022	SVE-VGACM-030922-0001	< 0.002	< 14	< 0.002	< 11	< 0.002 J	< 12 J	**0.022**	**87**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.022**	**87**
VGACM	4/4/2022	SVE-VGACM-040422-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.013**	**52**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.013**	**52**
VGACM	5/4/2022	SVE-VGACM-050422-0001	< 0.002	< 14	< 0.002	< 11	< 0.002 J	< 12 J	**0.014**	**56**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.014**	**56**
VGACM	6/1/2022	SVE-VGACM-060122-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.013**	**52**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.013**	**52**
VGACM	7/11/2022	SVE-VGACM-071122-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.012**	**48**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.012**	**48**
VGACM	8/10/2022	SVE-VGACM-081022-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0046**	**18**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0046**	**18**
VGACM	9/7/2022	SVE-VGACM-090722	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.002**	**7.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.002**	**7.9**
VGACM	10/5/2022	SVE-VGACM-100522	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0028**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0028**	**11**
VGACM	11/2/2022	SVE-VGACM-110222	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	12/7/2022	SVE-VGACM-120722	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	1/4/2023	SVE-VGACM-010423	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	2/1/2023	SVE-VGACM-020123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	3/1/2023	SVE-VGACM-030123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	4/13/2023	SVE-VGACM-041323	**0.0052**	**35**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0052**	**35**
VGACM	5/3/2023	SVE-VGACM-050323	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	6/7/2023	SVE-VGACM-060723	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	7/5/2023	SVE-VGAM-070523	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	8/2/2023	SVE-VGACM-080223	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0052**	**21**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0052**	**21**
VGACM	9/5/2023	SVE-VGACM-090523	< 0.002	< 14	< 0.002 J	< 11 J	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACM	10/11/2023	SVE-VGACM-101123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0026**	**10**
VGACM	11/15/2023	SVE-VGACM-111523	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	12/6/2023	SVE-VGACM-120623	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	1/3/2024	SVE-VGACM-010324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	2/7/2024	SVE-VGACM-020724	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	3/6/2024	SVE-VGACM-030624	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	4/3/2024	SVE-VGACM-040324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	5/8/2024	SVE-VGACM-050824	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACM	6/12/2024	SVE-VGACM-061224	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0026**	**10**
VGACM	7/3/2024	SVE-VGACM-070324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0022**	**8.7**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0022**	**8.7**
VGACM	8/6/2024	SVE-VGACM-080624	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	2/23/2011	EFF-022311	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACE	3/22/2011	VEGAC-032211	< 0.74	< 5000	< 0.93	< 5000	< 0.83	< 5000	< 1.3	< 5200	< 1.2	< 4900	< 1.2	< 4900	< 2	< 5100	< 1.3	< 5200	< 1.1	< 5100	< 1.3	< 5200	< 1.6	< 5100	NT	NT	ND	ND
VGACE	4/12/2011	V-EGAC-041211	**0.0033**	**22**	**0.0013 J**	**7.0 J**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	**0.18**	**460**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.1846**	**489**
VGACE	4/27/2011	VEFF-042711	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	**0.0033**	**13**	**0.31**	**790**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.2	< 700	**0.3133**	**803**
VGACE	5/17/2011	VEFF-051711	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.003	< 12	**0.094**	**240**	< 0.002	< 7.9	< 0.003	< 14	< 0.002	< 7.9	< 0.003	< 9.6	< 0.2	< 700	**0.094**	**240**
VGACE	6/7/2011	VEFF-060711	< 0.0058	< 39	< 0.0058	< 31	< 0.0058	< 35	< 0.0058	< 23	< 0.0058	< 24	< 0.0058	< 24	< 0.0058	< 15	< 0.0058	< 23	< 0.0072	< 33	< 0.0058	< 23	< 0.0058	< 19	**0.63 J**	**2200 J**	**0.63**	**2200**
VGACE	7/5/2011	VEFF-070511	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	**0.0059**	**24**	**0.083**	**210**	< 0.001	< 4.0	< 0.001	< 4.6	< 0.001	< 4.0	**0.00033 J**	**1.1 J**	**0.22**	**770**	**0.30923**	**1005.1**
VGACE	7/19/2011	VEFF-071911	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.049**	**130**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.52**	**1800**	**0.569**	**1930**
VGACE	8/23/2011	VEFF-082311	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.029**	**74**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.65**	**2300**	**0.679**	**2374**
VGACE	9/20/2011	VEFF-092011	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.024**	**61**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.51**	**1800**	**0.534**	**1861**
VGACE	9/21/2011	VEFF-092111	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.019**	**49**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.019**	**49**
VGACE	10/11/2011	VEFF-101111	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.019**	**49**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.48 J**	**1700 J**	**0.499**	**1749**
VGACE	1/13/2012	VEFF-011312	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.0067**	**17**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	**0.0067**	**17**
VGACE	2/21/2012	VEFF-022112	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	< 0.004	< 10	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	ND	ND
VGACE	3/27/2012	VEFF-032712	**0.008**	**54**	< 0.004	< 22	< 0.004	< 24	**0.021**	**83**	**0.029**	**120**	< 0.004	< 16	< 0.004	< 10	**0.011**	**44**	< 0.005	< 23	**0.002 J**	**7.9 J**	< 0.004	< 13	**0.3 J**	**1000 J**	**0.371**	**1308.9**
VGACE	4/24/2012	VEFF-042412	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.019**	**75**	**0.016**	**65**	< 0.004	< 16	< 0.004	< 10	**0.013**	**52**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 0.5	< 2000	**0.048**	**192**
VGACE	5/22/2012	VEFF-052212	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	**0.058**	**230**	**0.078**	**320**	< 0.004	< 16	**0.0078**	**20**	**0.013**	**52**	< 0.005	< 23	**0.01**	**40**	< 0.004	< 13	**0.72**	**2500**	**0.8868**	**3162**
VGACE	6/12/2012	VEFF-061212	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	**0.028**	**72**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**0.26 J**	**920 J**	**0.288**	**992**
VGACE	6/28/2012	VEFF-062812	**0.0023 J**	**16 J**	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	**0.0045**	**18**	< 0.004	< 16	**0.068**	**170**	**0.0023 J**	**9.1 J**	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	**1.6**	**5600**	**1.6771**	**5813.1**
VGACE	7/20/2012	VEFF-072012	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.039**	**100**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.039**	**100**
VGACE	8/7/2012	VEFF-080712	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.026**	**67**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.026**	**67**
VGACE	8/13/2012	VEFF-081312	**0.2**	**1000**	**0.004**	**22**	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.029**	**74**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	NT	NT	**0.233**	**1096**
VGACE	9/7/2012	VEFF-090712	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.024**	**61**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.024**	**61**
VGACE	10/16/2012	VEFF-101612	< 0.004	< 27	< 0.004	< 22	< 0.004	< 24	< 0.004	< 16	< 0.004	< 16	< 0.004	< 16	**0.03**	**80**	< 0.004	< 16	< 0.005	< 23	< 0.004	< 16	< 0.004	< 13	< 2	< 7000	**0.03**	**80**
VGACE	12/14/2012	VEFF-121412 (vapor effluent)	< 0.0061	< 41	< 0.0061	< 33	< 0.0061	< 37	< 0.0061	< 24	< 0.0061	< 25	< 0.0061	< 25	< 0.0061	< 16	< 0.0061	< 24	< 0.015	< 69	< 0.0061	< 24	< 0.0061	< 20	< 3	< 10000	ND	ND
VGACE	4/2/2013	VGACE-040213-001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.005**	**20**	**0.016**	**65**	< 0.0025	< 10	**0.027**	**69**	**0.016**	**64**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	NT	NT	**0.064**	**218**
VGACE	4/23/2013	VGACE-042313-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.049**	**130**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.4	< 4900	**0.049**	**130**
VGACE	5/21/2013	VGACE-052113-0001	**0.022**	**150**	**0.016**	**86**	< 0.002	< 12	< 0.002	< 7.9	**0.0021**	**8.5**	< 0.0025	< 10	**0.055**	**140**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**1.7**	**6000**	**1.7951**	**6384.5**
VGACE	6/26/2013	VGACE-062613-0001	< 0.008	< 54	< 0.0082	< 44	< 0.008	< 48	< 0.008	< 32	< 0.008	< 32	< 0.0099	< 40	**0.044**	**110**	< 0.008	< 32	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	< 1.4	< 4900	**0.044**	**110**
VGACE	7/30/2013	VGACE-073013-0001	**0.018**	**120**	**0.013**	**70**	< 0.008	< 48	< 0.008	< 32	**0.12**	**490**	< 0.0099	< 40	**0.025**	**64**	**0.032**	**130**	< 0.0087	< 40	< 0.008	< 32	< 0.012	< 38	**2.2**	**7700**	**2.408**	**8574**
VGACE	9/12/2013	VGACE-091213-0001	< 0.005	< 34	< 0.0051	< 27	< 0.005	< 30	< 0.005	< 20	**0.042**	**170**	< 0.0062	< 25	**0.055**	**140**	**0.0088**	**35**	< 0.0054	< 25	< 0.005	< 20	< 0.0075	< 24	< 1.4	< 4900	**0.1058**	**345**
VGACE	9/24/2013	VGACE-092413-0001	**0.0053**	**36**	**0.0042**	**23**	< 0.002	< 12	**0.011**	**44**	**0.17**	**690**	< 0.0025	< 10	**0.068**	**170**	**0.054**	**210**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	**3.1**	**11000**	**3.4125**	**12173**
VGACE	10/29/2013	VGACE-102913-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.18**	**710**	**0.079**	**320**	< 0.0025	< 10	**0.07**	**200**	**0.043**	**170**	< 0.0022	< 10	**0.0081**	**32**	< 0.003	< 9.6	**2**	**7000**	**2.3801**	**8432**
VGACE	11/25/2013	VGACE-112513-0001	< 0.01	< 70	< 0.01	< 50	< 0.01	< 60	**0.037**	**150**	**0.077**	**310**	< 0.012	< 49	**0.054**	**140**	**0.037**	**150**	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	< 1.2	< 4200	**0.205**	**750**
VGACE	12/16/2013	VGACE-121613-0001	< 0.01	< 70	< 0.01	< 50	< 0.01	< 60	**0.29**	**1200**	**0.061**	**250**	< 0.012	< 49	**0.068**	**170**	**0.037**	**150**	< 0.011	< 51	< 0.01	< 40	< 0.015	< 48	**1.3**	**4600**	**1.756**	**6370**
VGACE	1/27/2014	VGACE-012714-0001	**0.0042**	**29**	**0.013**	**70**	< 0.002	< 12	**0.0033**	**13**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0205**	**112**
VGACE	2/24/2014	VGACE-022414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0066**	**17**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0066**	**17**
VGACE	3/24/2014	VGACE-032414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/29/2014	VGACE-042914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/29/2014	VGACE-052914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0089**	**23**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0089**	**23**
VGACE	6/26/2014	VGACE-062614-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0066**	**17**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0066**	**17**
VGACE	7/29/2014	VGACE-072914-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	9/22/2014	VGACE-092214-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	10/23/2014	VGACE-102314-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	11/24/2014	VGACE-112414-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0046**	**12**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0046**	**12**
VGACE	12/10/2014	VGACE-121014-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0064**	**26**	< 0.0025	< 10	**0.0072**	**18**	**0.0063**	**25**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0199**	**69**
VGACE	1/20/2015	VGACE-012015-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.011**	**44**	**0.064**	**260**	< 0.0025	< 10	**0.0082**	**21**	**0.015**	**60**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0982**	**385**
VGACE	2/17/2015	VGACEFF-021715-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	3/26/2015	VGACE-032615-001	**0.0022**	**15**	**0.0034**	**18**	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	**0.0048**	**12**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0104**	**45**
VGACE	4/30/2015	VGAC-EFF-043015-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/28/2015	VGACE-052815-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.01**	**40**	< 0.0025	< 10	**0.0046**	**12**	**0.0045**	**18**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0191**	**70**
VGACE	6/16/2015	SVE-EFF-061615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0055**	**22**	< 0.0025	< 10	< 0.0039	< 10	**0.0034**	**13**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0089**	**35**
VGACE	7/7/2015	SVE-VGACE-070715-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0039**	**16**	< 0.0025	< 10	< 0.0039	< 10	**0.0026**	**10**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0065**	**26**
VGACE	8/26/2015	SVE-VGACE-082615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0038**	**15**	**0.014**	**57**	< 0.0025	< 10	< 0.0039	< 10	**0.0046**	**18**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0224**	**90**
VGACE	9/16/2015	SVE-VGACE-091615-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0068**	**27**	**0.012**	**49**	< 0.0025	< 10	< 0.0039	< 10	**0.0025**	**9.9**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0213**	**85.9**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³	ppmV	µg/m³
VGACE	10/14/2015	SVE-VGACE-101415-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.017**	**67**	**0.011**	**45**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.028**	**112**
VGACE	11/18/2015	SVE-VGACE-111815-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.024**	**95**	**0.0079**	**32**	< 0.0025	< 10	**0.004**	**10**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0359**	**137**
VGACE	12/9/2015	SVE-VGACE-120915-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.027**	**110**	**0.0072**	**29**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0342**	**139**
VGACE	1/14/2016	SVE-VGACE-011416-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.015**	**60**	**0.0035**	**14**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0185**	**74**
VGACE	2/17/2016	SVE-VGACE-021716-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.056**	**220**	**0.0091**	**37**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	**0.0032**	**13**	< 0.003	< 9.6	< 1.2	< 4200	**0.0683**	**270**
VGACE	3/23/2016	SVE-VGACE-032316-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/20/2016	SVE-VGACE-042016-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	7/20/2016	SVE-VGACE-072016-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	< 0.002	< 8	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	ND	ND
VGACE	10/19/2016	SVE-VGACE-101916-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0015**	**3.8**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0015**	**3.8**
VGACE	11/16/2016	SVE-VGACE-111616-0001	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	**0.0019**	**7.5**	**0.0047**	**19**	< 0.0012	< 4.9	< 0.002	< 5.1	**0.0016**	**6.4**	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	< 1.2	< 4200	**0.0082**	**32.9**
VGACE	12/14/2016	SVE-VGACE-121416-0001	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	**0.043**	**170**	**0.018**	**73**	< 0.0012	< 4.9	< 0.002	< 5.1	**0.0049**	**19**	< 0.0011	< 5.1	**0.0022**	**8.7**	< 0.0015	< 4.8	< 1.2	< 4200	**0.0681**	**270.7**
VGACE	3/22/2017	SVE-VGACE-032217-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.055**	**220**	**0.016**	**65**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0033**	**13**	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0765**	**306.7**
VGACE	4/12/2017	SVE-VGACE-041217-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.31**	**1200**	**0.086**	**350**	< 0.0025	< 10	**0.011**	**28**	**0.015**	**60**	< 0.0022	< 10	**0.014**	**56**	< 0.003	< 9.6	**1.3**	**4600**	**1.736**	**6294**
VGACE	5/17/2017	SVE-VGACE-051717-0001	< 0.0005	< 3.4	**0.00083**	**4.5**	< 0.0005	< 3.0	**0.11**	**440**	**0.0074**	**30**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.002**	**7.9**	< 0.00055	< 2.5	**0.0041**	**16**	< 0.00075	< 2.4	< 1.2	< 4200	**0.12433**	**498.4**
VGACE	10/11/2017	SVE-VGACE-101117-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	**0.0047**	**19**	< 0.0025	< 10	**0.013**	**33**	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0177**	**52**
VGACE	11/29/2017	SVE-VGACE-112917-0001	< 0.004	< 27	**0.016**	**86**	< 0.004	< 24	**0.083**	**330**	**0.012**	**49**	< 0.005	< 20	< 0.0078	< 20	**0.0088**	**35**	< 0.0044	< 20	**0.0042**	**17**	< 0.006	< 19	< 1.2	< 4200	**0.124**	**517**
VGACE	12/13/2017	SVE-VGACE-121317-0001	< 0.0005	< 3.4	**0.011**	**59**	< 0.0005	< 3.0	**0.071**	**280**	**0.015**	**61**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0012**	**4.8**	< 0.00055	< 2.5	**0.0016**	**6.4**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0998**	**411.2**
VGACE	1/31/2018	SVE-VGACE-013118-0001	< 0.0005	< 3.4	**0.0013**	**7.0**	< 0.0005	< 3.0	**0.013**	**52**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0155**	**63.9**
VGACE	5/2/2018	SVE-VGACE-050218-0001	< 0.0005	< 3.4	**0.002**	**11**	< 0.0005	< 3.0	**0.028**	**110**	**0.0057**	**23**	< 0.00062	< 2.5	**0.0073**	**19**	**0.0035**	**14**	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0487**	**185.7**
VGACE	6/20/2018	SVE-VGACE-062018-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	ND	ND
VGACE	7/18/2018	SVE-VGACE-071818-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0021**	**5.4**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0021**	**5.4**
VGACE	8/15/2018	SVE-VGACE-081518-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.00066**	**2.6**	**0.0046**	**19**	< 0.00062	< 2.5	**0.0022**	**5.6**	**0.002**	**7.9**	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00946**	**35.1**
VGACE	9/19/2018	SVE-VGACE-091918-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0042**	**17**	**0.0044**	**18**	< 0.00062	< 2.5	< 0.00098 J	< 2.5 J	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0086**	**35**
VGACE	10/24/2018	SVE-VGACE-102418-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.01**	**40**	**0.0079**	**32**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0031**	**12**	< 0.00055	< 2.5	**0.00096**	**3.8**	< 0.00075	< 2.4	< 1.2	< 4200	**0.02196**	**87.8**
VGACE	11/14/2018	SVE-VGACE-111418-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.012**	**48**	**0.005**	**20**	< 0.0025	< 10	< 0.0039	< 10	**0.0024**	**9.5**	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0194**	**77.5**
VGACE	1/9/2019	SVE-VGACE-010919-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0083**	**33**	**0.0031**	**13**	**0.00093**	**3.8**	**0.0014**	**3.6**	**0.0014**	**5.6**	< 0.00055	< 2.5	**0.0009**	**3.6**	< 0.00075	< 2.4	< 1.2	< 4200	**0.01603**	**62.6**
VGACE	3/6/2019	SVE-VGACE-030619-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0096**	**38**	**0.003**	**12**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0126**	**50**
VGACE	5/1/2019	SVE-VGACE-050119-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.013**	**52**	**0.004**	**16**	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.017**	**68**
VGACE	6/26/2019	SVE-VGACE-062619-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.023**	**91**	**0.0076**	**31**	< 0.00062	< 2.5	**0.0017**	**4.4**	**0.0025**	**9.9**	< 0.00055	< 2.5	**0.0025**	**9.9**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0373**	**146.2**
VGACE	10/9/2019	SVE-VGACE-100919-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.019**	**75**	**0.0062**	**25**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0025**	**9.9**	< 0.00055	< 2.5	**0.0019**	**7.5**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0296**	**117.4**
VGACE	11/26/2019	SVE-VGACE-112619-0001	**0.0041**	**28**	**0.0007**	**3.8**	< 0.0005	< 3.0	**0.0094**	**37**	**0.0024**	**9.7**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0011**	**4.4**	< 0.00055	< 2.5	**0.00078**	**3.1**	< 0.00075	< 2.4	< 1.2	< 4200	**0.01848**	**86**
VGACE	12/11/2019	SVE-VGACE-121119-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.006**	**24**	**0.0018**	**7.3**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00075**	**3.0**	< 0.00055	< 2.5	**0.00058**	**2.3**	< 0.00075	< 2.4	< 1.2	< 4200	**0.00913**	**36.6**
VGACE	2/26/2020	SVE-VGACE-022620-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	ND	ND
VGACE	3/18/2020	SVE-VGACE-031820-0001	< 0.001	< 6.8	< 0.001	< 5.4	< 0.001	< 6.0	< 0.001	< 4.0	< 0.001	< 4.1	< 0.0012	< 4.9	< 0.002	< 5.1	< 0.001	< 4.0	< 0.0011	< 5.1	< 0.001	< 4.0	< 0.0015	< 4.8	< 1.2	< 4200	ND	ND
VGACE	4/15/2020	SVE-VGACE-041520-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	ND	ND
VGACE	5/6/2020	SVE-VGACE-050620-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0019**	**7.5**	**0.0012**	**4.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00072**	**2.9**	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00382**	**15.3**
VGACE	6/10/2020	SVE-VGACE-061020-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0025**	**9.9**	**0.00074**	**3.0**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00324**	**12.9**
VGACE	7/8/2020	SVE-VGACE-070820-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0052**	**21**	**0.0011**	**4.5**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00066**	**2.6**	< 0.00075	< 2.4	< 1.2	< 4200	**0.00696**	**28.1**
VGACE	8/5/2020	SVE-VGACE-080520-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0065**	**26**	**0.00095**	**3.8**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00091**	**3.6**	< 0.00075	< 2.4	< 1.2	< 4200	**0.00836**	**33.4**
VGACE	9/9/2020	SVE-VGACE-090920-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.007**	**28**	**0.00073**	**3.0**	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00082 J**	**3.3 J**	< 0.00075	< 2.4	< 1.2	< 4200	**0.00855**	**34.3**
VGACE	10/7/2020	SVE-VGACE-100720-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0049**	**19**	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	**0.00056**	**2.2**	< 0.00075	< 2.4	< 1.2	< 4200	**0.00546**	**21.2**
VGACE	11/18/2020	SVE-VGACE-111820-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	12/2/2020	SVE-VGACE-120220-0001	**0.017 J**	**120 J**	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.017**	**120**
VGACE	1/13/2021	SVE-VGACE-011321-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	2/17/2021	SVE-VGACE-021721-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	**0.0029**	**7.4**	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0029**	**7.4**
VGACE	3/10/2021	SVE-VGACE-031021-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/14/2021	SVE-VGACE-041421-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/12/2021	SVE-VGACE-051221-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	6/9/2021	SVE-VGACE-060921-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0019**	**7.5**	**0.0031**	**13**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0016**	**6.4**	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0066**	**26.9**
VGACE	7/7/2021	SVE-VGACE-070721-0001	< 0.002	< 10	< 0.002	< 10	< 0.002	< 10	**0.0024**	**9.5**	< 0.002	< 8	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 8	< 0.0022	< 10	< 0.002	< 8	< 0.003	< 10	< 1.2	< 4200	**0.0024**	**9.5**
VGACE	8/4/2021	SVE-VGACE-080421-0001	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 3	**0.016**	**64**	**0.0078**	**32**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0038**	**15**	< 0.00055	< 2.5	**0.0023**	**9.1**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0299**	**120.1**
VGACE	9/8/2021	SVE-VGACE-090821-0001	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 3	**0.021**	**83**	**0.0025**	**10**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.001**	**4**	< 0.00055	< 2.5	**0.0022**	**8.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0267**	**105.7**
VGACE	10/4/2021	SVE-VGACE-100421-0001	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 3	**0.025**	**99**	**0.0033**	**13**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.0014**	**5.6**	**0.001**	**5**	**0.003**	**10**	< 0.00075	< 2.4	< 1.2	< 4200	**0.0337**	**132.6**
VGACE	11/29/2021	SVE-VGACE-112921-0001	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 3	**0.0033**	**13**	< 0.0005	< 2	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2	< 0.00055	< 2.5	< 0.0005	< 2	< 0.00075	< 2.4	< 1.2	< 4200	**0.0033**	**13**
VGACE	12/13/2021	SVE-VGACE-121321-0001	**0.0038**	**26**	< 0.0005	< 3	< 0.0005	< 3	< 0.0005	< 2	< 0.0005	< 2	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2	< 0.00055	< 2.5	< 0.0005	< 2	< 0.00075	< 2.4	< 1.2	< 4200	**0.0038**	**26**
VGACE	1/12/2022	SVE-VGACE-011222-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	< 0.00055	< 2.5	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2 J	< 4200 J	ND	ND
VGACE	2/9/2022	SVE-VGACE-020922-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	< 0.0005	< 2.0	< 0.0005	< 2.0	< 0.00062	< 2.5	< 0.00098	< 2.5	< 0.0005	< 2.0	**0.0017**	**7.9**	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.0017**	**7.9**
VGACE	3/9/2022	SVE-VGACE-030922-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005 J	< 3.0 J	**0.00065**	**2.6**	**0.002**	**8.1**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00071**	**2.8**	**0.00066**	**3.1**	< 0.0005	< 2.0	< 0.00075	< 2.4	< 1.2	< 4200	**0.00402**	**16.6**
VGACE	4/4/2022	SVE-VGACE-040422-0001	< 0.0005	< 3.4	< 0.0005	< 2.7	< 0.0005	< 3.0	**0.0096**	**38**	**0.0014**	**5.7**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00055**	**2.2**	< 0.00055	< 2.5	**0.00092**	**3.7**	< 0.00075	< 2.4	< 1.2	< 4200	**0.01247**	**49.6**
VGACE	5/4/2022	SVE-VGACE-050422-0001	< 0.002	< 14	< 0.002	< 11	< 0.002 J	< 12 J	**0.018**	**71**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.018**	**71**
VGACE	6/1/2022	SVE-VGACE-060122-0001	< 0.0005	< 3.4	**0.00067**	**3.6**	< 0.0005	< 3.0	**0.0072**	**29**	**0.00096**	**3.9**	< 0.00062	< 2.5	< 0.00098	< 2.5	**0.00054**	**2.1**	< 0.00055	< 2.5	**0.00064**	**2.5**	< 0.00075	< 2.4	< 1.2	< 4200	**0.01001**	**41.1**
VGACE	7/11/2022	SVE-VGACE-071122-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.015**	**60**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.015**	**60**
VGACE	8/10/2022	SVE-VGACE-081022-0001	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0084**	**33**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0084**	**33**
VGACE	9/7/2022	SVE-VGACE-090722	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0038**	**15**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0038**	**15**
VGACE	10/5/2022	SVE-VGACE-100522	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0036**	**14**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0036**	**14**
VGACE	11/2/2022	SVE-VGACE-110222	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.003**	**12**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.003**	**12**

TABLE 15

ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN SOIL VAPOR TREATMENT SYSTEM SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Location	Sample Date	Sample Name	PCE		TCE		1,2,3-TCP		cis-1,2-DCE		1,1-DCA		1,2-DCA		VC		1,1-DCE		1,2-DCP		trans-1,2-DCE		Benzene		TNMOC as Hexane		Total COCs	
			ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3	ppmV	µg/m^3
VGACE	12/7/2022	SVE-VGACE-120722	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	1/4/2023	SVE-VGACE-010423	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0034**	**13**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0034**	**13**
VGACE	2/1/2023	SVE-VGACE-020123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	3/1/2023	SVE-VGACE-030123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/13/2023	SVE-VGACE-041323	**0.034**	**230**	< 0.002	< 11	< 0.002	< 12	**0.0024**	**9.5**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0364**	**239.5**
VGACE	5/3/2023	SVE-VGACE-050323	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	6/7/2023	SVE-VGACE-060723	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0026**	**10**
VGACE	7/5/2023	SVE-VGACE-070523	**0.0038**	**26**	< 0.002	< 11	< 0.002	< 12	**0.002**	**7.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0058**	**33.9**
VGACE	8/2/2023	SVE-VGACE-080223	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0054**	**21**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0054**	**21**
VGACE	9/5/2023	SVE-VGACE-090523	< 0.002	< 14	< 0.002 J	< 11 J	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	10/11/2023	SVE-VGACE-101123	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0025**	**9.9**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0025**	**9.9**
VGACE	11/15/2023	SVE-VGACE-111523	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	12/6/2023	SVE-VGACE-120623	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	1/3/2024	SVE-VGACE-010324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	2/7/2024	SVE-VGACE-020724	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	3/6/2024	SVE-VGACE-030624	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	4/3/2024	SVE-VGACE-040324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	5/8/2024	SVE-VGACE-050824	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	< 0.002	< 7.9	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	ND	ND
VGACE	6/12/2024	SVE-VGACE-061224	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0042**	**17**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0042**	**17**
VGACE	7/3/2024	SVE-VGACE-070324	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0026**	**10**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0026**	**10**
VGACE	8/6/2024	SVE-VGACE-080624	< 0.002	< 14	< 0.002	< 11	< 0.002	< 12	**0.0027**	**11**	< 0.002	< 8.1	< 0.0025	< 10	< 0.0039	< 10	< 0.002	< 7.9	< 0.0022	< 10	< 0.002	< 7.9	< 0.003	< 9.6	< 1.2	< 4200	**0.0027**	**11**

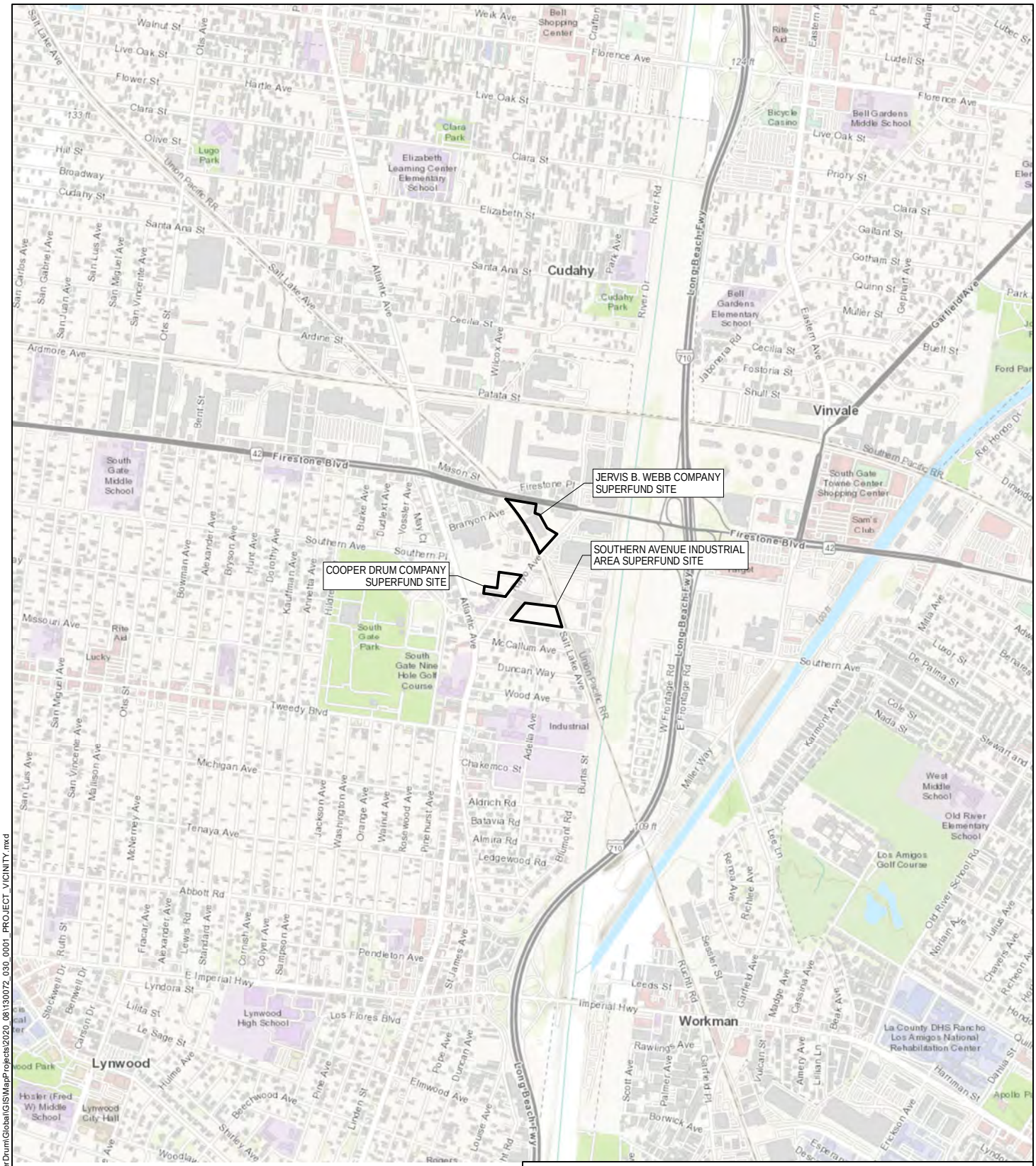
Notes:

1. Samples were analyzed for volatile organic compounds using EPA Method TO-15.
2. Detected concentrations are shown in **BOLD** font.
3. Results are reported in ppbV and converted to µg/m^3. The laboratory provides electronic data deliverables in units of ppbV only - conversion from ppbV to µg/m^3 using the same temperature, gas constant and molecular weights provided by the laboratory. A slight discrepancy may occur between this table and the laboratory report due to rounding of significant figures.
4. Samples collected during this reporting period are shaded in gray.

Abbreviations:

µg/m^3 = micrograms per cubic meter
< = not detected at or above the laboratory reporting limit shown
ASTM = American Society for Testing and Materials
COCs = chemicals of concern
EPA = Environmental Protection Agency
J = The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.
ppbV = parts per billion by volume
ppmV = parts per million by volume
VGAC = vapor phase granular activated carbon
PCE = Tetrachloroethene
TCE = Trichloroethene
1,2,3-TCP = 1,2,3-Trichloropropane
cDCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
VC = Vinyl chloride
1,1-DCE = 1,1-Dichloroethene
1,2-DCP = 1,2-Dichloropropane
tDCE = trans-1,2-Dichloroethene

FIGURES



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HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SITE LOCATION MAP

FEBRUARY 2025

FIGURE 1

JWMW-08A
JWMW-08B
JWMW-08C
JWMW-09A
JWMW-09B
JWMW-09C
JWMW-04
JWMW-10
JERVIS B. WEBB COMPANY SUPERFUND SITE
FORMER HARD WASH AREA (HWA)
MW-64A
MW-64B
MW-63
MW-19
CORVAL STREET (ALLEY)
MW-57A
MW-57B
MW-58
MW-23A
MW-23B
MW-23
MW-2A
MW-2B
MW-2C
MW-59A
MW-59B
MW-59C
EW-2
PMW-1
MW-21
PTW-2
MW-18R
MW-17
MW-18
ABANDONED
MW-33A
MW-33B
MW-20
MW-20B
MW-1
MW-4B
MW-4
EW-4
MW-22
MW-61A
MW-61B
EW-A
JWMW-12
JWMW-11A
JWMW-11B
JWMW-11C
ELG METALS BLDG
MW-60A
MW-60B
FORMER DRUM PROCESSING AREA (DPA)
MW-15B
MW-15
EW-5
EW-8
MW-16R
MW-16
ABANDONED
JWMW-13A
JWMW-13B
JWMW-13C
SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE
9430 RAYO AVENUE
MW-42
MW-43
MW-44
MW-62A
MW-62B
PZ-7A
PZ-7B
EW-7A/B
MW-41
SAIA-MW-01A
SAIA-MW-01B
SAIA-MW-01C
SAIA-MW-02A
SAIA-MW-02B
SAIA-MW-02C
SAIA-MW-07
MW-24
MW-26
MW-25
MW-25B
MW-35
MW-34
MW-31
MW-32
MW-31B
MW-31A
MW-28
MW-27
MW-29A
MW-29
MW-30
SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE
MW-45
MW-36
MW-37
MW-55
ABANDONED
MW-55R
MW-38
MW-40
MW-39
MW-46
MW-47
MW-48
SAIA-MW-03A
SAIA-MW-03B
SAIA-MW-03C
MW-56
DUNCAN AVENUE
MW-53
MW-54
MW-52
MW-49
MW-50
MW-51
DUNCAN WAY
SAIA-MW-04A
SAIA-MW-04B
SAIA-MW-04C
WOOD AVE
SAIA-MW-08
SAIA-MW-05A
SAIA-MW-05B
SAIA-MW-05C
SAIA-MW-06A
SAIA-MW-06B
SAIA-MW-06C
ATLANTIC AVENUE
ALLEY
MC CALLUM AVENUE
ADELLA AVENUE
RAYO AVENUE
SOUTHERN AVENUE
ELECT. TRANS.
FORMER TWEEDY SCHOOL
BLDG 1
BLDG 2
BLDG 3
BLDG 4
BLDG 5
BLDG 6
BLDG 7
PATIO
OVERHANG

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- EXISTING EXTRACTION WELL (NOT OPERATIONAL)
- PROPERTY BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
3. MONITORING WELLS DESIGNATED AS "SAIA" OR "JW" ARE NOT PART OF THE COOPER DRUM SITE MONITORING PROGRAM. THEY ARE FOR THE SAIA AND JERVIS WEBB SUPERFUND SITES, RESPECTIVELY.

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SCALE IN FEET

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

EXTRACTION WELLS AND MONITORING WELLS FOR OU1

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 2

JERVIS B. WEBB COMPANY SUPERFUND SITE

FORMER HARD WASH AREA (HWA)

FORMER DRUM PROCESSING AREA (DPA)

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE

JWMW-08A
JWMW-08B
JWMW-08C
JWMW-09A
JWMW-09B
JWMW-09C
JWMW-04
JWMW-10
MW-64B 40.57
MW-64A 41.94
MW-63 41.16
MW-19 41.01
MW-57A 41.43
MW-57B 41.84
MW-58 41.26
MW-23A DRY
MW-23B 41.37
MW-23 41.09
MW-2A DRY
MW-2B 41.18
MW-2C 41.39
MW-59A DRY
MW-59B 41.11
MW-59C 41.32
ABANDONED EW-2
MW-21 41.32
PTW-2
MW-18R
MW-17 40.99
MW-18 ABANDONED
MW-33A DRY
MW-33B 41.02
MW-20 41.31
MW-20B 41.04
EW-4 37.87
EW-A
MW-1 42.77
MW-4 41.12
MW-4B 41.37
MW-22 41.14
MW-61A 40.94
MW-61B 41.04
MW-60A 40.78
MW-60B 40.86
ELG METALS BLDG
JWMW-12
JWMW-11A
JWMW-11B
JWMW-11C
MW-15 40.78
MW-15B 41.11
EW-5 40.85
EW-8 41.02
MW-16R
MW-16 ABANDONED
9430 RAYO AVENUE
JWMW-13A
JWMW-13B
JWMW-13C
MW-42 40.75
MW-43 40.84
MW-44 40.86
MW-41 40.73
MW-62A 41.05
MW-62B 40.94
PZ-7B 40.89
PZ-7A 40.96
EW-7A/B
A: 20.71
B: 12.03
SAIA-MW-01A
SAIA-MW-01B
SAIA-MW-01C
SAIA-MW-02A
SAIA-MW-02B
SAIA-MW-02C
SAIA-MW-07
MW-24 40.98
MW-26
MW-25 40.89
MW-25B 40.67
MW-35 40.68
MW-34 40.68
MW-32
MW-31 40.75
MW-31B 40.68
MW-31A DRY
MW-28 40.89
MW-27 40.98
MW-29A 40.77
MW-29 40.61
MW-30 40.75
MW-45 40.69
MW-37 40.84
MW-36 40.76
MW-55R
MW-55 ABANDONED
MW-39 40.73
MW-38 40.56
MW-40 40.70
MW-46 40.73
MW-47 40.67
MW-48 40.73
SAIA-MW-03A
SAIA-MW-03B
SAIA-MW-03C
MW-56 40.79
MW-53 40.59
MW-52 40.66
MW-54 40.66
MW-49 40.57
MW-50 40.58
MW-51 40.56
SAIA-MW-04A
SAIA-MW-04B
SAIA-MW-04C
SAIA-MW-08
SAIA-MW-05A
SAIA-MW-05B
SAIA-MW-05C
SAIA-MW-06A
SAIA-MW-06B
SAIA-MW-06C
41.3
41.2
41.1
41.0
40.9
40.8
40.7
40.6
0.004
0.0002
CORVAL STREET (ALLEY)
ATLANTIC AVENUE
FORMER TWEEDY SCHOOL
RAYO AVENUE
SOUTHERN AVENUE
ELECT. TRANS.
BLDG 1
ALLEY
MC CALLUM AVENUE
ADELLA AVENUE
DUNCAN AVENUE
DUNCAN WAY
WOOD AVE

0 200 400
SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- UPWARD GRADIENT
- DOWNWARD GRADIENT
- MIXED GRADIENT
- 40 — GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (MSL)
- 0.004 — APPROXIMATE DIRECTION OF GROUNDWATER FLOW AND GRADIENT (FEET/FOOT)
- PROPERTY BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
3. GROUNDWATER ELEVATION MEASUREMENTS MADE ON 18 NOVEMBER 2024. EXCEPTIONS INCLUDE EW-7A AND EW-7B MEASURED ON 20 NOVEMBER 2024; MW-25B MEASURED ON 22 NOVEMBER 2024; AND EW-4 MEASURED ON 27 NOVEMBER 2024.
4. GROUNDWATER MEASUREMENTS POSTED IN GRAY WERE NOT USED FOR CONTOURING.
5. NM: NOT MEASURED.
6. THE WATER LEVEL CONTOURS WERE INTERPRETED BASED ON A COMBINATION OF KRIGING OF OBSERVED WATER LEVELS IN MONITORING WELLS AND MANUAL ADJUSTMENTS MADE TO CONTOURS IN THE VICINITY OF THE EXTRACTION WELLS.
7. PHASE 1 RAA HORIZONTAL GRADIENT CALCULATION: 41.7 - 41.3 / 100 = 0.004 FT/FT
8. PHASE 2 RAA HORIZONTAL GRADIENT CALCULATION: 40.7 - 40.6 / 545 = 0.0002 FT/FT

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

GASPUR AQUIFER GROUNDWATER ELEVATION MAP - NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 3

MARCH, HEATHER Printed: 2/5/2025 4:40 PM Layout: FIG4
G:\38945 - COOPER DRUM\GLOBAL\CAD\2024-11_SAMPLING\130072-006-0004-LOWERGWELEV-2024-11.DWG

JWMW-08A
JWMW-08B
JWMW-08C
JWMW-09A
JWMW-09B
JWMW-09C
JWMW-04
JWMW-10
JERVIS B. WEBB COMPANY SUPERFUND SITE
FORMER HARD WASH AREA (HWA)
MW-64A
MW-64B
MW-63
MW-19
CORVAL STREET (ALLEY)
MW-57A
MW-57B
MW-58
MW-23A
MW-23B
MW-23
MW-2A
MW-2B
MW-2C
MW-59A
MW-59B
MW-59C
ABANDONED EW-2
PMW-1
MW-21
PTW-2
MW-18R
38.96
VG: 0.0420
MW-17
40.99
MW-18
ABANDONED
MW-33A
MW-20
MW-33B
MW-20B
MW-1
MW-4B
MW-4
EW-4
MW-61A
MW-61B
EW-A
MW-22
FORMER TWEEDY SCHOOL
FORMER DRUM PROCESSING AREA (DPA)
MW-60A
MW-60B
ELG METALS BLDG
JWMW-12
JWMW-11A
JWMW-11B
JWMW-11C
MW-15
EW-8
MW-15B
41.11
EW-5
MW-16
ABANDONED
MW-16R
38.94
VG: 0.0741
9430 RAYO AVENUE
RAYO AVENUE
JWMW-13A
JWMW-13B
JWMW-13C
MW-62A
MW-62B
PZ-7A
PZ-7B
EW-7A/B
MW-41
MW-42
MW-43
MW-44
SAIA-MW-01A
SAIA-MW-01B
SAIA-MW-01C
SAIA-MW-02A
SAIA-MW-02B
SAIA-MW-02C
SAIA-MW-07
MW-24
MW-26
38.87
MW-25
MW-25B
40.67
VG: 0.0732
MW-32
38.86
MW-31B
40.68
MW-31
MW-31A
MW-35
MW-34
SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE
MW-28
MW-27
MW-29A
MW-29
MW-30
MW-45
ALLEY
VG: 0.0402
MW-37
40.84
MW-36
MW-55
ABANDONED
MW-55R
39.02
MW-38
MW-40
MW-39
MW-46
MW-47
MW-48
SAIA-MW-03A
SAIA-MW-03B
SAIA-MW-03C
MW-56
DUNCAN AVENUE
MW-52
MW-53
MW-54
MW-49
MW-50
MW-51
DUNCAN WAY
SAIA-MW-04A
SAIA-MW-04B
SAIA-MW-04C
WOOD AVE
SAIA-MW-08
SAIA-MW-05A
SAIA-MW-05B
SAIA-MW-05C
SAIA-MW-06C
SAIA-MW-06A
SAIA-MW-06B
ATLANTIC AVENUE
SOUTHERN AVENUE
ADELLA AVENUE
MC CALLUM AVENUE
CALLUM AVENUE
ALLEY
BLDG 1
BLDG 2
BLDG 3
BLDG 4
BLDG 5
BLDG 6
BLDG 7
ELECT. TRANS.
OVERHANG
PATIO

N

0 200 400
SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- DOWNWARD GRADIENT
- PROPERTY BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
3. GROUNDWATER ELEVATION MEASUREMENTS MADE ON 18 NOVEMBER 2024.
4. NM: NOT MEASURED
5. VG: VERTICAL GRADIENT (FT/FT)

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

GASPUR AND EXPOSITION AQUIFER GROUNDWATER ELEVATION MAP - NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 4

MW-2B	11/19/2024
TCE	0.45 J
cDCE	9.4
1,4-Dioxane	4.4
1,2,3-TCP	0.13

MW-57A	11/22/2024
TCE	< 0.5 J
cDCE	0.55
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-58	11/22/2024
TCE	< 0.5 J
cDCE	5.4
1,4-Dioxane	9
1,2,3-TCP	< 0.005

MW-63	11/21/2024
TCE	< 0.5 J
cDCE	4
1,4-Dioxane	7.4
1,2,3-TCP	< 0.005

MW-21	11/22/2024
TCE	< 0.5
cDCE	10
1,4-Dioxane	5
1,2,3-TCP	0.22

MW-23	11/20/2024
TCE	2.1 J/2.6 J
cDCE	4.9/4.1
1,4-Dioxane	2.8/2.8
1,2,3-TCP	0.0086/0.0082

MW-19	11/22/2024
TCE	2.3
cDCE	26
1,4-Dioxane	9
1,2,3-TCP	0.082

MW-17	11/20/2024
TCE	< 0.5
cDCE	6.4
1,4-Dioxane	3.2
1,2,3-TCP	< 0.005

MW-20	11/21/2024
TCE	1.1 J
cDCE	6.9
1,4-Dioxane	3.2
1,2,3-TCP	0.05

MW-1	11/22/2024
TCE	< 0.5 J
cDCE	< 0.5
1,4-Dioxane	2.2
1,2,3-TCP	< 0.005

MW-4	11/19/2024
TCE	0.96
cDCE	15
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

EW-4	11/20/2024
TCE	< 0.5
cDCE	44
1,4-Dioxane	2.4
1,2,3-TCP	< 25

MW-22	11/21/2024
TCE	1 J
cDCE	4.6
1,4-Dioxane	3.8
1,2,3-TCP	< 0.005

MW-61A	11/22/2024
TCE	< 0.5
cDCE	17
1,4-Dioxane	4.6
1,2,3-TCP	0.017

EW-5	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	7.2
1,2,3-TCP	0.011

MW-60A	11/20/2024
TCE	< 0.5
cDCE	11
1,4-Dioxane	7.6
1,2,3-TCP	0.023

MW-62A	11/20/2024
TCE	< 0.5
cDCE	40
1,4-Dioxane	< 1
1,2,3-TCP	< 10

MW-24	11/21/2024
TCE	0.32 J
cDCE	7
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

PZ-7A	11/20/2024
TCE	0.31 J
cDCE	12
1,4-Dioxane	< 1
1,2,3-TCP	0.023

EW-7A	11/20/2024
TCE	< 0.5
cDCE	11
1,4-Dioxane	2.4
1,2,3-TCP	0.017

MW-29A	11/22/2024
TCE	< 0.5/< 0.5
cDCE	9.8/11
1,4-Dioxane	1.8/2
1,2,3-TCP	< 0.005/< 0.005

MW-38	11/19/2024
TCE	0.5
cDCE	15
1,4-Dioxane	4
1,2,3-TCP	0.026

EW-20	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-59A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-18R	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-33A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-33B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-20B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-61B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-60B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-15	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-16R	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-62B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-25B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-23B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-59B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-59C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-21	11/22/2024
TCE	< 0.5
cDCE	10
1,4-Dioxane	5
1,2,3-TCP	0.22

MW-2A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-2C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-57B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-64A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-64B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-23A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-31A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-31B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-55R	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-39	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-40	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-41	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-42	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-43	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-44	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-45	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-46	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-47	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-48	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-49	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-50	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-51	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-52	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-53	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-54	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-55	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

MW-56	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-01A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-01B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-01C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-02A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-02B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-02C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-03A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-03B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-03C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-04A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-04B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-04C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-05A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-05B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-05C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-06A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-06B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-06C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-07	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

SAIA-MW-08	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-04	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-10	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-08A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-08B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-08C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-09A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-09B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-09C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-11A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-11B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-11C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-12	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-13A	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-13B	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

JWMW-13C	11/20/2024
TCE	< 0.5
cDCE	4.5
1,4-Dioxane	3.2
1,2,3-TCP	0.0098

FORMER HARD WASH AREA (HWA)

ABANDONED

9430 RAYO AVENUE

ELG METALS BLDG

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE

CORVAL STREET (ALLEY)

RAYO AVENUE

SOUTHERN AVENUE

ALLEY

MC CALLUM AVENUE

ADELLA AVENUE

DUNCAN AVENUE

DUNCAN WAY

WOOD AVE

FORMER TWEEDY SCHOOL

ELECT. TRANS.

BLDG 1

BLDG 2

BLDG 3

BLDG 4

BLDG 5

BLDG 6

OVERHANG

PATIO

0 200 400

SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- SITE BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA

- TCE, cDCE, AND 1,2,3-TCP BELOW CLEAN-UP LEVEL
- TCE, cDCE, AND/OR 1,2,3-TCP ABOVE CLEAN-UP LEVEL

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. SITE BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
3. CONCENTRATIONS ARE IN ug/l
4. ug/L = MICROGRAMS PER LITER
5. / = DUPLICATE RESULTS
6. < = NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT SHOWN
7. J = ESTIMATED VALUE
8. UJ = ESTIMATED VALUE; VALUE IS BELOW DETECTION LIMIT
9. cDCE = cis-1,2-DICHLOROETHENE
10. TCE = TRICHLOROETHENE
11. 1,2,3-TCP = 1,2,3-TRICHLOROPROPANE
12. TBD: TO BE DETERMINED BASED ON A FUTURE DECISION DOCUMENT PROMULGATED BY EPA.

WELL ID	SAMPLING DATE	CLEAN UP LEVEL
MW-23	11/30/2023	
TCE	27	5.0
cDCE	8.7	6.0
1,4-Dioxane	6 J	TBD
1,2,3-TCP	0.0093	0.005

ANALYTE NAME

YELLOW HIGHLIGHT INDICATES RESULT IS ABOVE CLEAN-UP LEVEL

CONCENTRATION (ug/L)

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

TCE, cDCE, 1,4-DIOXANE, AND 1,2,3-TCP SHALLOW GASPUR GROUNDWATER NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 5

MARCH, HEATHER Printed: 1/27/2025 2:41 PM Layout: FIG6
G:\38945 - COOPER DRUM\GLOBAL\CAD\2024-11_SAMPLING\130072-006-0005_0008-DATABOX-2024-11.DWG

MW-64A	11/21/2024
TCE	< 0.5 J/< 0.5 J
cDCE	9.6/8.1
1,4-Dioxane	6/6.2
1,2,3-TCP	< 0.005/< 0.005

MW-57B	11/22/2024
TCE	< 0.5
cDCE	0.95
1,4-Dioxane	< 1
1,2,3-TCP	0.023

MW-2C	11/19/2024
TCE	< 0.5
cDCE	< 0.5
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-4B	11/19/2024
TCE	0.91 J/0.95
cDCE	75/67
1,4-Dioxane	3/2.4
1,2,3-TCP	< 0.005/< 0.005

MW-59C	11/19/2024
TCE	< 0.5
cDCE	< 0.5
1,4-Dioxane	< 1
1,2,3-TCP	0.018

MW-59B	11/22/2024
TCE	0.45 J
cDCE	8.8
1,4-Dioxane	9
1,2,3-TCP	0.0083

MW-33B	11/21/2024
TCE	< 0.5 J
cDCE	21
1,4-Dioxane	10
1,2,3-TCP	0.024

MW-20B	11/19/2024
TCE	< 0.5 J
cDCE	1.7
1,4-Dioxane	4
1,2,3-TCP	0.015

MW-61B	11/22/2024
TCE	< 0.5 J
cDCE	0.31 J
1,4-Dioxane	2.4
1,2,3-TCP	< 0.005

MW-15	11/21/2024
TCE	< 0.5 J
cDCE	16
1,4-Dioxane	3.6
1,2,3-TCP	< 0.005

PZ-7B	11/20/2024
TCE	0.63
cDCE	9.9
1,4-Dioxane	2
1,2,3-TCP	0.017

MW-25	11/22/2024
TCE	< 0.5
cDCE	14
1,4-Dioxane	2
1,2,3-TCP	0.017

MW-27	11/21/2024
TCE	1.4 J
cDCE	10
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-31	11/21/2024
TCE	0.43 J
cDCE	12
1,4-Dioxane	6.6
1,2,3-TCP	0.048

MW-36	11/19/2024
TCE	0.61
cDCE	13
1,4-Dioxane	< 1
1,2,3-TCP	0.0076

MW-29	11/22/2024
TCE	< 0.5
cDCE	4.4
1,4-Dioxane	< 1
1,2,3-TCP	0.014

MW-39	11/19/2024
TCE	< 0.5 J
cDCE	29
1,4-Dioxane	10
1,2,3-TCP	0.057

MW-50	11/19/2024
TCE	0.44 J
cDCE	230
1,4-Dioxane	4.8
1,2,3-TCP	0.0061

JERVIS B. WEBB COMPANY SUPERFUND SITE

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE

FORMER HARD WASH AREA (HWA)

FORMER DRUM PROCESSING AREA (DPA)

ABANDONED EW-2

MW-18 ABANDONED

MW-16 ABANDONED

MW-55 ABANDONED

9430 RAYO AVENUE

ELG METALS BLDG

FORMER TWEEDY SCHOOL

ELECT. TRANS.

CORVAL STREET (ALLEY)

SOUTHERN AVENUE

MC CALLUM AVENUE

DUNCAN AVENUE

DUNCAN WAY

WOOD AVE

RAYO AVENUE

ATLANTIC AVENUE

ADELLA AVENUE

ALLEY

PATIO

OVERHANG PATIO

BLDG 1

BLDG 2

BLDG 3

BLDG 4

BLDG 5

BLDG 6

BLDG 7

0 200 400
SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- SITE BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA
- TCE, cDCE, AND 1,2,3-TCP BELOW CLEAN-UP LEVEL
- TCE, cDCE, AND/OR 1,2,3-TCP ABOVE CLEAN-UP LEVEL

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. SITE BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
3. CONCENTRATIONS ARE IN ug/l
4. ug/L = MICROGRAMS PER LITER
5. / = DUPLICATE RESULTS
6. < = NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT SHOWN
7. J = ESTIMATED VALUE
8. UJ = ESTIMATED VALUE; VALUE IS BELOW DETECTION LIMIT
9. cDCE = cis-1,2-DICHLOROETHENE
10. TCE = TRICHLOROETHENE
11. 1,2,3-TCP = 1,2,3-TRICHLOROPROPANE
12. TBD: TO BE DETERMINED BASED ON A FUTURE DECISION DOCUMENT PROMULGATED BY EPA.

WELL ID — SAMPLING DATE

MW-23	11/30/2023	CLEAN UP LEVEL
TCE	27	5.0
cDCE	8.7	6.0
1,4-Dioxane	6 J	TBD
1,2,3-TCP	0.0093	0.005

ANALYTE NAME

YELLOW HIGHLIGHT INDICATES RESULT IS ABOVE CLEAN-UP LEVEL

CONCENTRATION (ug/L)

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

TCE, cDCE, 1,4-DIOXANE, AND 1,2,3-TCP INTERMEDIATE GASPUR GROUNDWATER NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 6

MARCH, HEATHER Printed: 1/27/2025 2:42 PM Layout: FIG7
G:\38945 - COOPER DRUM\GLOBAL\CAD\2024-11_SAMPLING\130072-006-0005_0008-DATABOX-2024-11.DWG

JERVIS B. WEBB COMPANY SUPERFUND SITE

FORMER HARD WASH AREA (HWA)

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE

MW-64B	11/21/2024
TCE	< 0.5 J
cDCE	0.99
1,4-Dioxane	< 1
1,2,3-TCP	0.0052

MW-23B	11/20/2024
TCE	< 0.5
cDCE	0.59
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-60B	11/20/2024
TCE	< 0.5 J
cDCE	12
1,4-Dioxane	6.2
1,2,3-TCP	0.048

EW-A	11/20/2024
TCE	0.6
cDCE	42
1,4-Dioxane	3.8
1,2,3-TCP	< 30

MW-15B	11/20/2024
TCE	0.36 J
cDCE	54
1,4-Dioxane	2.6
1,2,3-TCP	0.23

EW-8	11/21/2024
TCE	< 0.5 J
cDCE	0.44 J
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-41	11/21/2024
TCE	< 0.5 J
cDCE	28
1,4-Dioxane	14
1,2,3-TCP	0.1

MW-62B	11/20/2024
TCE	< 0.5
cDCE	51
1,4-Dioxane	< 1
1,2,3-TCP	0.015

EW-7B	11/20/2024
TCE	1.2/0.96
cDCE	27/26
1,4-Dioxane	3.8/3.8
1,2,3-TCP	0.047/0.048

MW-28	11/21/2024
TCE	< 0.5 J
cDCE	2.1
1,4-Dioxane	< 1
1,2,3-TCP	0.031

MW-31B	11/21/2024
TCE	< 0.5 J
cDCE	21 J
1,4-Dioxane	3.8
1,2,3-TCP	0.02 J

MW-25B	11/22/2024
TCE	< 0.5
cDCE	28
1,4-Dioxane	< 1
1,2,3-TCP	0.018

MW-37	11/19/2024
TCE	< 0.5/< 0.5
cDCE	1.4 J/2 J
1,4-Dioxane	< 1 J/2 J
1,2,3-TCP	0.13/0.12

MW-30	11/22/2024
TCE	< 0.5
cDCE	1.8
1,4-Dioxane	9.8
1,2,3-TCP	0.038

MW-40	11/19/2024
TCE	< 0.5 J
cDCE	16
1,4-Dioxane	17
1,2,3-TCP	0.069

MW-53	11/19/2024
TCE	< 0.5 J
cDCE	< 0.5
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-54	11/19/2024
TCE	< 0.5 J
cDCE	3.3
1,4-Dioxane	4.6
1,2,3-TCP	0.13

MW-51	11/19/2024
TCE	< 0.5 J
cDCE	51
1,4-Dioxane	9.4
1,2,3-TCP	0.051

0 200 400
SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- SITE BOUNDARY
- RAILROAD
- ANGLED WELL
- PHASE 1 OU1 REMEDIAL ACTION AREA
- PHASE 2 OU1 REMEDIAL ACTION AREA
- TCE, cDCE, AND 1,2,3-TCP BELOW CLEAN-UP LEVEL
- TCE, cDCE, AND/OR 1,2,3-TCP ABOVE CLEAN-UP LEVEL

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
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4. ug/L = MICROGRAMS PER LITER
5. / = DUPLICATE RESULTS
6. < = NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT SHOWN
7. J = ESTIMATED VALUE
8. UJ = ESTIMATED VALUE; VALUE IS BELOW DETECTION LIMIT
9. cDCE = cis-1,2-DICHLOROETHENE
10. TCE = TRICHLOROETHENE
11. 1,2,3-TCP = 1,2,3-TRICHLOROPROPANE
12. TBD: TO BE DETERMINED BASED ON A FUTURE DECISION DOCUMENT PROMULGATED BY EPA.

WELL ID — SAMPLING DATE

MW-23	11/30/2023	CLEAN UP LEVEL
TCE	27	5.0
cDCE	8.7	6.0
1,4-Dioxane	6 J	TBD
1,2,3-TCP	0.0093	0.005

ANALYTE NAME

YELLOW HIGHLIGHT INDICATES RESULT IS ABOVE CLEAN-UP LEVEL

CONCENTRATION (ug/L)

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

TCE, cDCE, 1,4-DIOXANE, AND 1,2,3-TCP LOWER GASPUR GROUNDWATER NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 7

MARCH, HEATHER Printed: 1/27/2025 2:42 PM Layout: FIG8
G:\38945 - COOPER DRUM\GLOBAL\CAD\2024-11_SAMPLING\130072-006-0005_0008-DATABOX-2024-11.DWG

JERVIS B. WEBB COMPANY SUPERFUND SITE

FORMER HARD WASH AREA (HWA)

FORMER DRUM PROCESSING AREA (DPA)

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE

JWMW-08A
JWMW-08B
JWMW-08C
JWMW-09A
JWMW-09B
JWMW-09C
JWMW-04
JWMW-10
MW-64A
MW-64B
MW-63
MW-19
MW-57A
MW-57B
MW-58
MW-23A (DRY)
MW-23B
MW-23
(DRY) MW-2A
MW-2B
MW-2C
MW-59A (DRY)
MW-59B
MW-59C
ABANDONED EW-2
PMW-1
MW-21
PTW-2
MW-18R
MW-17
MW-18 ABANDONED
MW-33A (DRY)
MW-33B
MW-20
MW-20B
MW-1
MW-4B
MW-4
EW-4
EW-A
MW-22
MW-61A
MW-61B
MW-60A
MW-60B
ELG METALS BLDG
JWMW-12
JWMW-11A
JWMW-11B
JWMW-11C
MW-15B
MW-15
EW-5
EW-8
MW-16
MW-16R
ABANDONED
JWMW-13A
JWMW-13B
JWMW-13C
9430 RAYO AVENUE
MW-42
MW-43
MW-44
MW-62A
MW-62B
PZ-7A
PZ-7B
EW-7A/B
MW-41
SAIA-MW-01A
SAIA-MW-01B
SAIA-MW-01C
SAIA-MW-02A
SAIA-MW-02B
SAIA-MW-02C
SAIA-MW-07
MW-24
MW-26
MW-25
MW-25B
MW-35
MW-34
MW-32
MW-31
MW-31B
MW-31A (DRY)
MW-28
MW-27
MW-29A
MW-29
MW-30
MW-45
MW-36
MW-37
MW-55
ABANDONED
MW-55R
MW-38
MW-40
MW-39
MW-46
MW-47
MW-48
SAIA-MW-03A
SAIA-MW-03B
SAIA-MW-03C
MW-56
MW-53
MW-54
MW-52
MW-49
MW-50
MW-51
SAIA-MW-04A
SAIA-MW-04B
SAIA-MW-04C
SAIA-MW-08
SAIA-MW-05A
SAIA-MW-05B
SAIA-MW-05C
SAIA-MW-06A
SAIA-MW-06B
SAIA-MW-06C

MW-18R	11/21/2024
TCE	1.3 J
cDCE	0.49 J
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-16R	11/20/2024
TCE	0.35 J
cDCE	< 0.5
1,4-Dioxane	< 1
1,2,3-TCP	< 0.005

MW-26	11/22/2024
TCE	< 0.5 J
cDCE	< 0.5
1,4-Dioxane	2
1,2,3-TCP	< 0.005

MW-32	11/21/2024
TCE	< 0.5 J
cDCE	0.32 J
1,4-Dioxane	2
1,2,3-TCP	< 0.005

MW-55R	11/19/2024
TCE	< 0.5 J/< 0.5
cDCE	< 0.5/< 0.5
1,4-Dioxane	< 1/< 1
1,2,3-TCP	< 0.005/< 0.005

CORVAL STREET (ALLEY)
ATLANTIC AVENUE
FORMER TWEEDY SCHOOL
BLDG 6
BLDG 7
PATIO
OVERHANG PATIO
BLDG 5
BLDG 4
BLDG 2
BLDG 1
ELECT. TRANS.
SOUTHERN AVENUE
RAYO AVENUE
ALLEY
MC CALLUM AVENUE
ADELLA AVENUE
DUNCAN AVENUE
DUNCAN WAY
WOOD AVE

N
0 200 400
SCALE IN FEET

LEGEND

- WELL SCREEN INTERCEPTS THE SHALLOW GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE INTERMEDIATE GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE LOWER GASPUR AQUIFER
- WELL SCREEN INTERCEPTS THE EXPOSITION AQUIFER
- EXISTING EXTRACTION WELL
- ABANDONED EXTRACTION WELL (NOT OPERATIONAL)
- SITE BOUNDARY
- RAILROAD
- ANGLED WELL
- TCE, cDCE, AND 1,2,3-TCP BELOW CLEAN-UP LEVEL
- TCE, cDCE, AND/OR 1,2,3-TCP ABOVE CLEAN-UP LEVEL

NOTES

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6. < = NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT SHOWN
7. J = ESTIMATED VALUE
8. UJ = ESTIMATED VALUE; VALUE IS BELOW DETECTION LIMIT
9. cDCE = cis-1,2-DICHLOROETHENE
10. TCE = TRICHLOROETHENE
11. 1,2,3 = 1,2,3-TRICHLOROPROPANE
12. TBD: TO BE DETERMINED BASED ON A FUTURE DECISION DOCUMENT PROMULGATED BY EPA.

WELL ID — SAMPLING DATE

MW-23	11/30/2023	CLEAN UP LEVEL
TCE	27	5.0
cDCE	8.7	6.0
1,4-Dioxane	6 J	TBD
1,2,3-TCP	0.0093	0.005

ANALYTE NAME

YELLOW HIGHLIGHT INDICATES RESULT IS ABOVE CLEAN-UP LEVEL

CONCENTRATION (ug/L)

HALEY ALDRICH

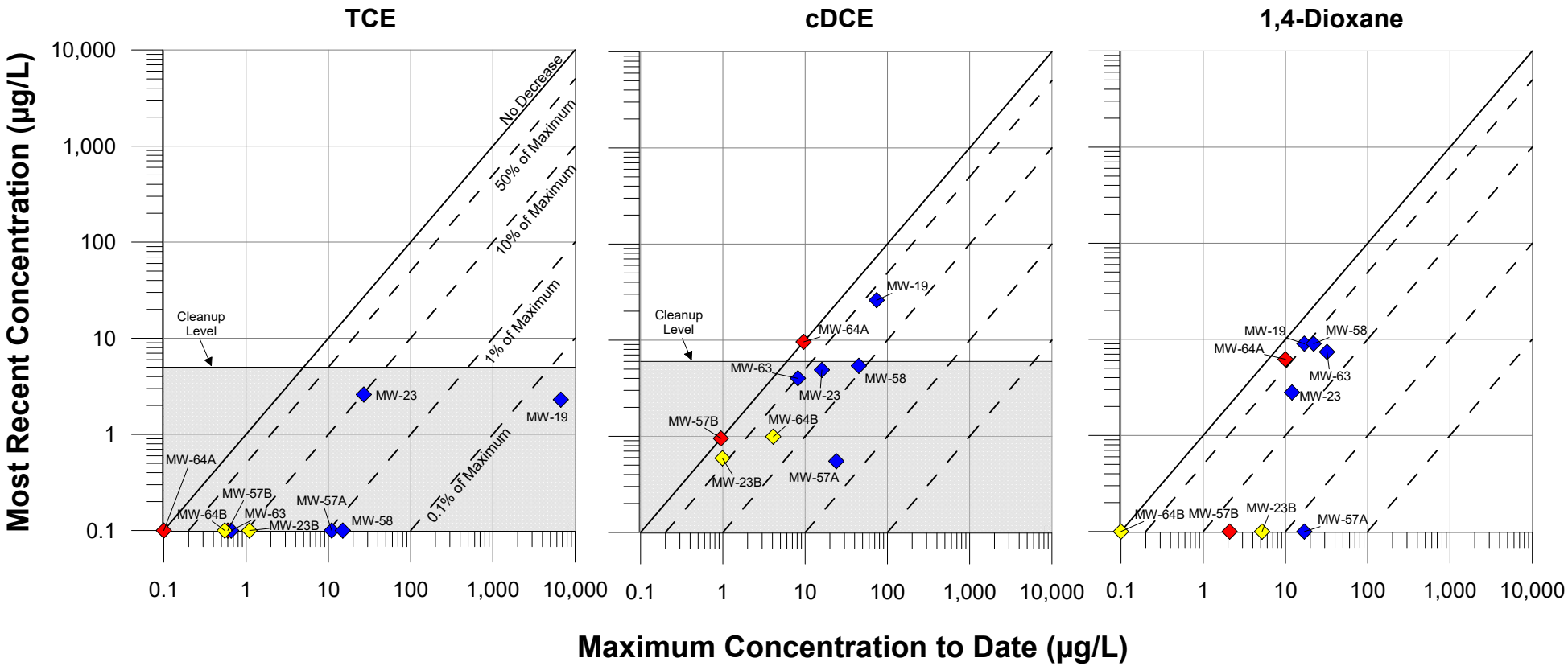
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

TCE, cDCE, 1,4-DIOXANE, AND 1,2,3-TCP EXPOSITION GROUNDWATER NOVEMBER 2024

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 8

Upgradient Wells



Abbreviations

cDCE = cis-1,2-dichloroethene
COCs = chemicals of concern
TCE = trichloroethene
µg/L = micrograms per liter

Notes

1. Non-detect concentrations depicted as having a concentration of 0.1µg/L for plotting purposes.

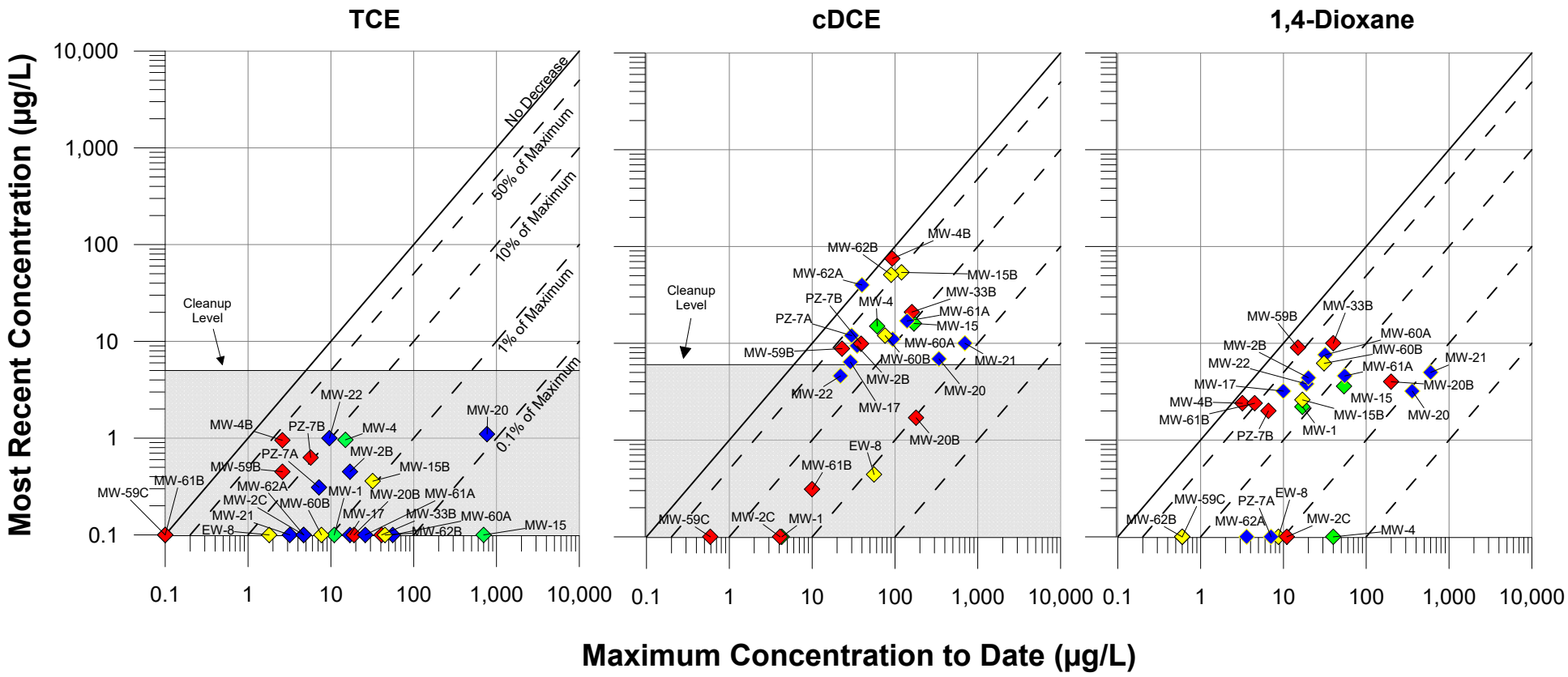
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

MOST RECENT TOTAL COCS VS. MAXIMUM HISTORICAL TOTAL COCS IN GROUNDWATER - UPGRADIENT LOCATIONS

FEBRUARY 2025

FIGURE 9

Phase 1 Remedial Action Area Wells



Abbreviations
cDCE = cis-1,2-dichloroethene
COCs = chemicals of concern
TCE = trichloroethene
µg/L = micrograms per liter

Notes
1. Non-detect concentrations depicted as having a concentration of 0.1µg/L for plotting purposes.

- Shallow Gaspur
- Shallow/Intermediate
- Intermediate Gaspur
- Lower Gaspur

HALEY ALDRICH

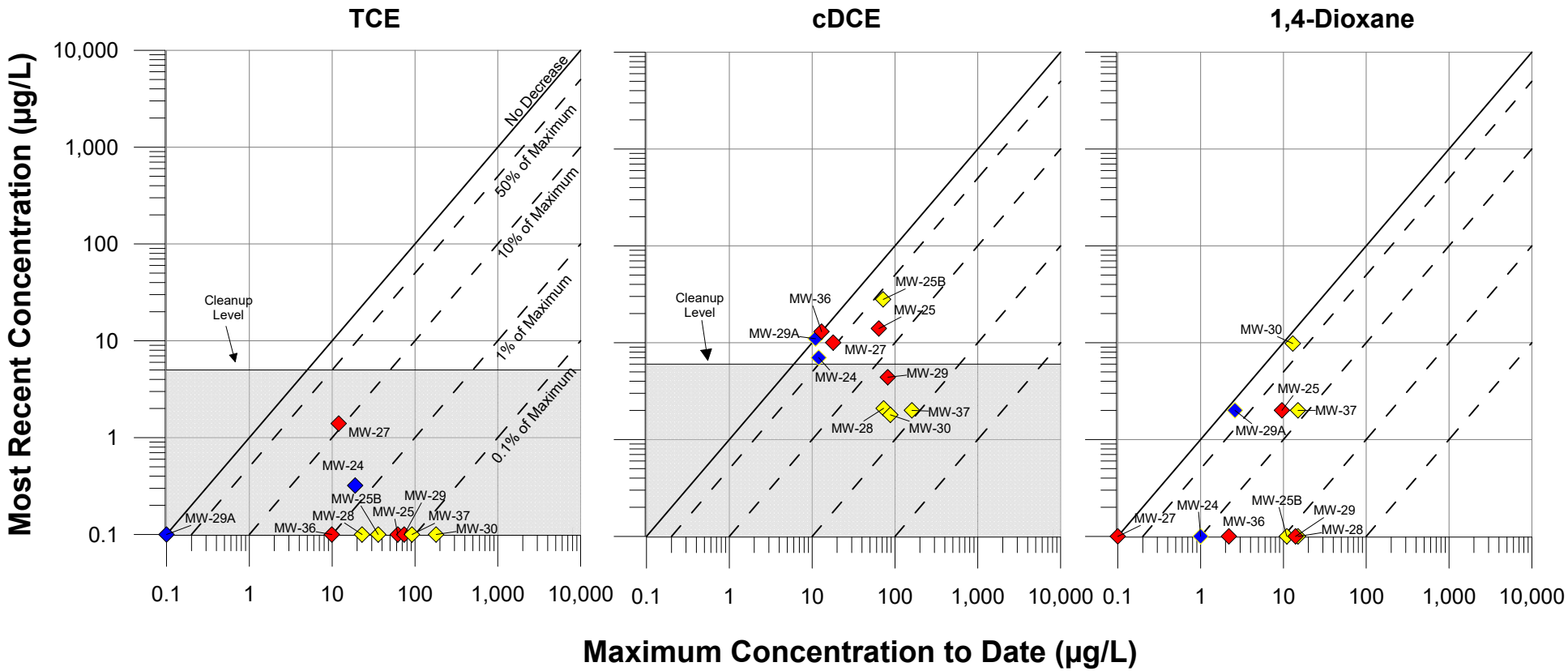
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

MOST RECENT TOTAL COCS VS. MAXIMUM HISTORICAL TOTAL COCS IN GROUNDWATER - PHASE 1 REMEDIAL ACTION AREA

FEBRUARY 2025

FIGURE 10

Phase 2 Remedial Action Area Wells



Abbreviations
cDCE = cis-1,2-dichloroethene
COCs = chemicals of concern
TCE = trichloroethene
µg/L = micrograms per liter

Notes
1. Non-detect concentrations depicted as having a concentration of 0.1µg/L for plotting purposes.

- Shallow Gaspur
- Intermediate Gaspur
- Lower Gaspur

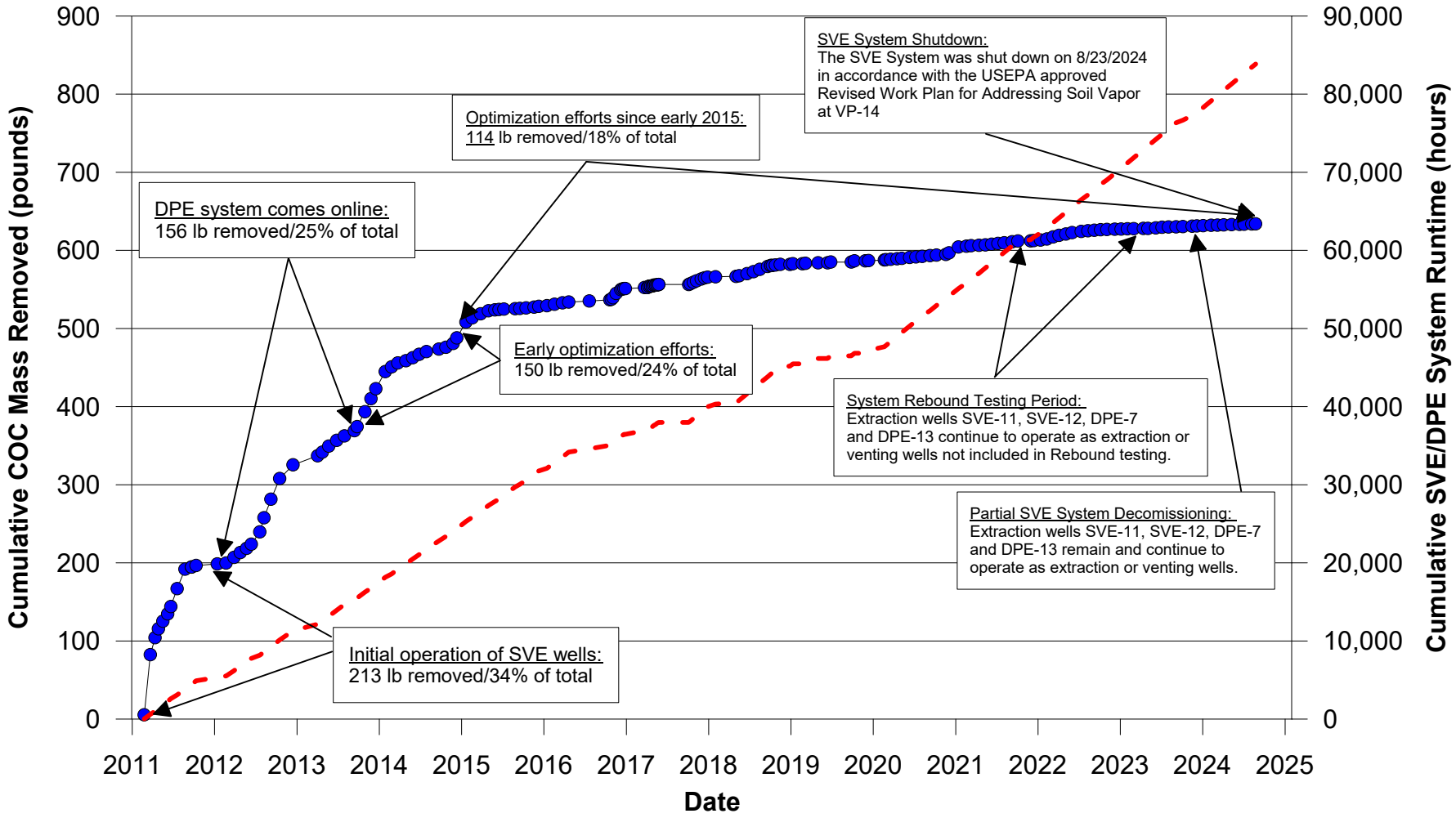
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

MOST RECENT TOTAL COCS VS. MAXIMUM HISTORICAL TOTAL COCS IN GROUNDWATER - PHASE 2 REMEDIAL ACTION AREA

FEBRUARY 2025

FIGURE 11



Abbreviations
COCs = chemicals of concern
DPE = dual phase extraction
SVE = soil vapor extraction

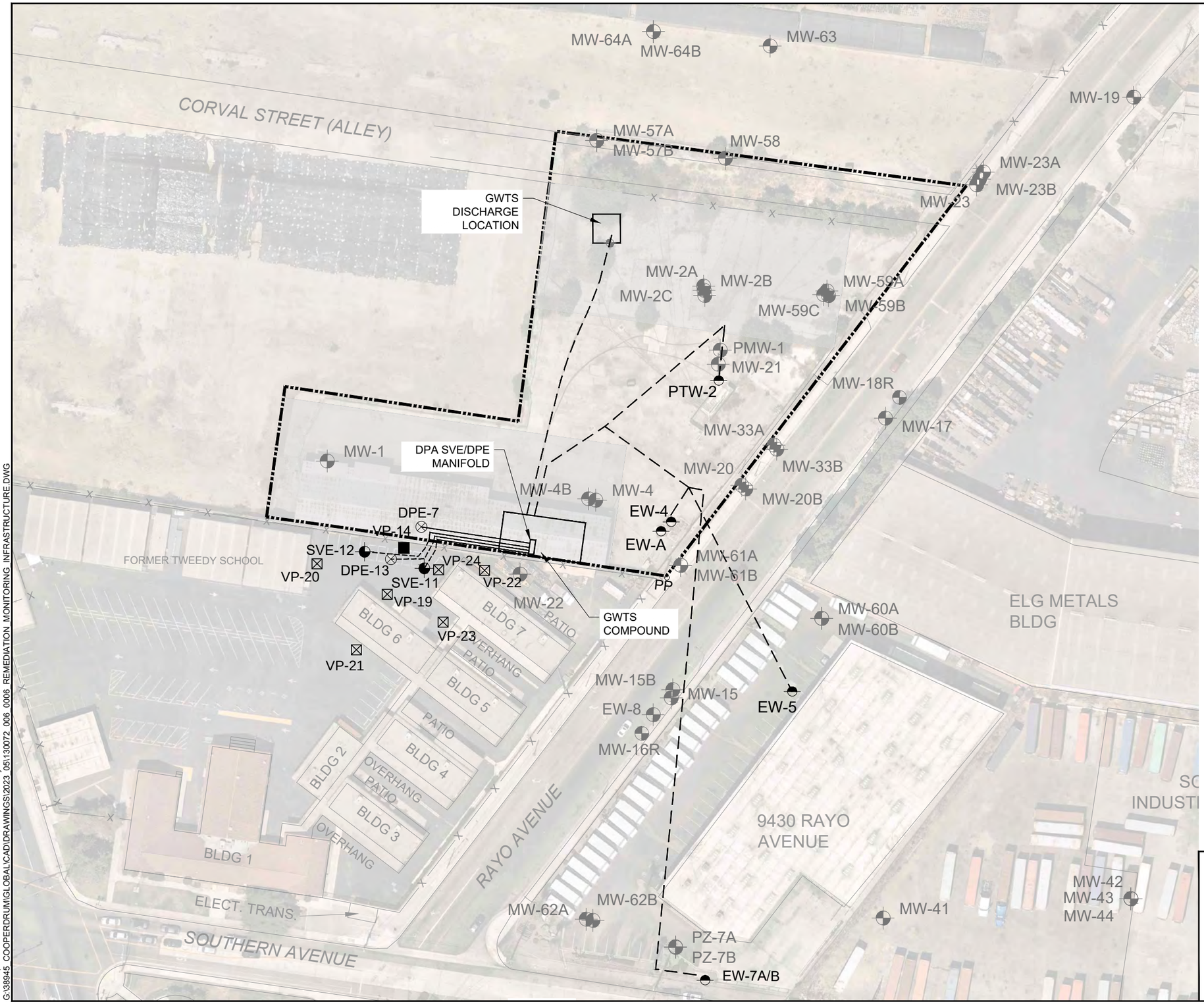
HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

OU2 CUMULATIVE COC MASS REMOVAL IN VAPOR PHASE

FEBRUARY 2025

FIGURE 12



LEGEND

- PROPERTY BOUNDARY
- EXTRACTION WELL
- BELOW GRADE GROUNDWATER PIPE NETWORK
- GASPER GROUNDWATER MONITORING WELL
- EXPOSITION GROUNDWATER MONITORING WELL
- DUAL PHASE EXTRACTION WELL LOCATION
- SOIL VAPOR EXTRACTION WELL LOCATION
- VAPOR MONITORING POINT LOCATION
- NEWLY INSTALLED VAPOR MONITORING POINT LOCATIONS

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. WELL LOCATIONS BASED ON INFORMATION PROVIDED BY URS OR CALVADA SURVEYING, INC.
3. PROPERTY BOUNDARY BASED ON A PARCEL MAP PROVIDED BY "OFFICE OF THE ASSESSOR, COUNTY OF LOS ANGELES", 2016, PA# 6222-5.
4. GWTS = GROUNDWATER TREATMENT SYSTEM
5. AERIAL IMAGERY SOURCE: NEARMAP, AUGUST 27 2022
6. VP-19, VP-20, VP-21, VP-22, VP-23, AND VP-24 LOCATIONS ARE APPROXIMATE AND WILL BE SURVEYED IN 2025.

N

0 60 120
SCALE IN FEET

HALEY ALDRICH

COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNI

REMEDIATION AND MONITORING INFRASTRUCTURE FOR OU2

SCALE: AS SHOWN
FEBRUARY 2025

FIGURE 13

MOBINI, DARIUSH Printed:5/10/2023 9:37 AM Layout: FIG6
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APPENDIX A
Remediation Systems Operation and Maintenance Data

TABLE A-1

SECOND SEMI-ANNUAL REPORTING PERIOD, JULY-DECEMBER 2024, SVE OPERATIONAL DATA

SVE/DPE PID MEASUREMENTS

COOPER DRUM COMPANY SUPERFUND SITE

SOUTH GATE, CALIFORNIA

Date	PID MEASUREMENTS AT SVE WELLS - Manifold (ppmv)		PID MEASUREMENTS AT DPE WELLS - Manifold (ppmv)		PID MEASUREMENTS AT SVE SYSTEM (ppmv)				
	SVE-11[1]	SVE-12[1]	DPE-7	DPE-13[1]	Influent (Pre-Blower combined stream)	Effluent (VGACE)	DPA Inffluent	VGACI (Post-Blower Influent stream)	VGACM
7/3/2024	--	--	--	--	6.2	0.0	6.3	0.6	0.0
8/6/2024					3.1	0.0	5.1	0.5	0.2
8/23/2024[2]	--	--	--	--	4.8	0.0	5.3	0.0	0.0

Notes:

NM = not measured; well not operational

-- = not measured; well is operational as an extraction well or a vent well

VGACI = Vapor Phase Granular Activated Carbon Influent

VGACM = Vapor Phase Granular Activated Carbon Midpoint

VGACE = Vapor Phase Granular Activated Carbon Effluent

PID = photoionization detector

ppmv = parts per million by volume

DPA = Former Drum Processing Area

[1] = SVE-11, SVE-12, and DPE-13 operated as vent wells during the reporting period and were isolated from the SVE system inlet.

[2]=The SVE system was shut down on 8/23/2024 in accordance with the USEPA approved Revised Work Plan for Addressing Soil Vapor at VP-14.

TABLE A-2

SECOND SEMI-ANNUAL REPORTING PERIOD, JULY-DECEMBER 2024, SVE OPERATIONAL DATA
SVE/DPE VACUUM MEASUREMENTS
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

	VACUUM AT SVE WELLS (IN H2O)		VACUUM AT DPE WELLS (IN H2O)		VACUUM AT SVE SYSTEM (IN H2O)				
Date	SVE-11[1]	SVE-12[1]	DPE-7	DPE-13[1]	Influent	Effluent (VGACE)	DPA Influent	VGACI (Post-Blower Influent stream)	VGACM
7/3/2024	--	--	--	--	127	0.0	127	-3.9	-1.9
8/6/2024	--	--	--	--	126	0.0	127	-3.4	-1.7
8/23/2024[2]	--	--	--	--	125	0.0	126	-3.4	-1.8

Notes:

Measurements collected using digital manometer connected to sample port.

Vacuum shown as positive value. Pressure shown as negative value.

NM = not measured; well not operational

-- = not measured; well is operational as an extraction well or a vent well

VGACI = Vapor Phase Granular Activated Carbon Influent

VGACM = Vapor Phase Granular Activated Carbon Midpoint

VGACE = Vapor Phase Granular Activated Carbon Effluent

IN H2O = inches of water

DPA = Former Drum Processing Area

[1] = SVE-11, SVE-12, and DPE-13 operated as vent wells during the reporting period and were isolated from the SVE system inlet.

[2]=The SVE system was shut down on 8/23/2024 in accordance with the USEPA approved Revised Work Plan for Addressing Soil Vapor at VP-14.

TABLE A-3

SECOND SEMI-ANNUAL REPORTING PERIOD, JULY-DECEMBER 2024, SVE OPERATIONAL DATA
SVE/DPE FLOW RATE MEASUREMENTS
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Date	CALCULATED FLOW AT SVE WELLS (SCFM)		CALCULATED FLOW AT DPE WELLS (SCFM)		Calculated Flow at SVE System (SCFM)		
	SVE-11[1]	SVE-12[1]	DPE-7	DPE-13[1]	Influent (Pre-Blower combined stream)	VGACI (Post-Blower Influent stream)	DPA Influent
7/3/2024	--	--	--	--	38	91	36
8/6/2024	--	--	--	--	42	87	24
8/23/2024[2]	--	--	--	--	42	90	34

Notes:

SCFM = standard cubic feet per minute

NM = not measured; well not operational

-- = not measured; well is operational as an extraction well or a vent well

VGACI = Vapor Phase Granular Activated Carbon Influent

DPA = Former Drum Processing Area

[1] = SVE-11, SVE-12, and DPE-13 operated as vent wells during the reporting period and were isolated from the SVE system inlet.

[2]=The SVE system was shut down on 8/23/2024 in accordance with the USEPA approved Revised Work Plan for Addressing Soil Vapor at VP-14.

TABLE A-4
SECOND SEMI-ANNUAL REPORTING PERIOD, JULY-DECEMBER 2024, OU1 EXTRACTION WELL FLOW RATES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Date	Actual Hours Between Inspections (hours)	Flow Totalizer Measurements (gallons)						Average Flow Rates (GPM)				
		EW-4	EW-7A	EW-7B	EW-A	PTW-2	Combined Influent for OU1	EW-4	EW-7A[1]	EW-7B[1]	EW-A	PTW-2[1]
7/3/2024	337	5,067,191	8,724,956	11,565,805	9,036,519	4,160,223	63,960,586	1.7	0.7	3.0	2.6	4.6
8/1/2024	693	NM	NM	NM	NM	NM	64,552,913	NM	NM	NM	NM	NM
8/6/2024	120	5,158,605	8,762,872	11,714,664	9,199,081	4,317,647	64,632,353	1.9	0.8	3.1	3.3	3.2
9/4/2024	700	5,272,616	8,762,878	11,857,838	9,424,864	4,471,168	65,067,192	2.7	0.0	3.4	5.4	3.7
9/11/2024	163	5,303,642	8,764,981	11,887,065	9,474,445	4,499,661	65,169,698	3.2	0.2	3.0	5.1	2.9
10/3/2024	532	5,422,539	8,776,563	11,964,996	9,627,510	4,590,533	65,496,352	3.7	0.4	2.4	4.8	2.8
10/3/2024	0	5,422,592	NM	NM	NM	NM	65,496,612	2.4	NM	NM	NM	NM
11/5/2024	792	5,498,061	8,798,176	12,019,138	9,849,021	4,774,724	66,033,828	1.6	0.5	1.1	4.7	3.9
11/11/2024	139	5,511,381	8,801,763	12,036,848	9,877,120	4,774,724	NM	1.6	0.4	2.1	3.4	0.0
11/11/2024	6	5,511,895	NM	NM	9,878,129	4,774,802	66,128,789	1.4	NM	NM	2.8	0.2
11/27/2024	380	5,539,166	NM	12,081,253	9,942,879	NM	66,352,111	1.2	NM	1.9	2.8	NM
12/2/2024	125	5,553,515	8,813,192	12,095,511	9,964,196	4,786,337	66,414,499	1.9	0.4	1.9	2.9	0.4
12/9/2024	167	5,569,963	8,823,842	12,112,023	9,989,067	4,814,623	66,541,904	1.6	1.1	1.7	2.5	2.8
12/11/2024	45	NM	NM	NM	NM	NM	66,541,904	NM	NM	NM	NM	NM
12/18/2024	167	NM	NM	NM	NM	NM	66,647,661	NM	NM	NM	NM	NM
1/3/2025	384	5,642,941	8,875,866	12,170,249	10,083,231	4,914,029	66,888,220	2.0	1.5	1.6	2.6	2.8

Notes:
Flow rates estimated by dividing incremental volume from totalizer by hours between inspections.
NM = not measured
[1] = Flow totalizerimpacted by biofouling during a portion of the reporting period.

APPENDIX B
Groundwater Monitoring Well Gauging and Sampling Field Records

Gauging

Project # 130072 Client Haley & Aldrich

Site Cooper Drum - South Gate 11/18/24

Well ID	Time	Well Size (in.)	Sheen/ Odor	Depth to Water (ft.) May 2024	Measured Depth to Water(ft.)	Depth to well bottom (ft.)	Measured Depth to Well Bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0825	4		63.60	62.11	83	82.51		
MW-2A	0820	2		Dry	Dry	62.71	62.70		
MW-2B	0810	2		66.29	65.06	72.6	72.35		
MW-2C	0815	2		66.11	64.88	92.48	92.28		
MW-4	0838	4		65.09	63.81	82.05	81.90		
MW-4B	0830	2		65.05	63.69	92.67	92.40		
MW-15	0920	4		65.17	63.78	85.07	85.07		
MW-15B	0915	2		64.96	63.60	103.11	103.00		
MW-16R	0925	2		68.39	65.50	137	136.72		
MW-17	0945	4		65.51	64.33	78.81	78.72		
MW-18R	0940	2		69.68	66.06	132	131.66		
MW-19	1000	4		65.91	65.02	77.52	77.34		
MW-20	1050	4		65.00	63.53	68.81	68.29		
MW-20B	0745	2		64.67	63.42	89.9	89.62		
MW-21	0745	4		65.71	64.30	74.83	74.83		
MW-22	0758	4		65.57	64.18	73.16	72.40	TOC	
MW-23	1205	4		66.08	65.00	79.67	79.52		
MW-23A	1155	2		Dry	Dry	64.45	64.80		
MW-23B	1200	2		66.51	64.69	105.97	104.56		
MW-24	1142	4		64.47	62.98	85.2	84.95		
MW-25	1131	4		64.32	62.95	88.89	88.96		
MW-25B	11/21/24 0938	4		64.21	62.82	104.38	103.91		
MW-26	1135	2		67.83	64.99	132.17	131.86		
MW-27	0906	4		64.20	62.62	90.08	89.65		
MW-28	0909	2		64.20	62.64	113.9	112.73		
MW-29	0933	4		63.71	62.34	90.08	89.45		
MW-29A	0925	4		63.83	62.18	65.93	66.03		
MW-30	0922	2		63.87	62.34	114.34	113.70		

Gauging

Project # 130072 Client Haley & Aldrich

Site Cooper Drum - South Gate 11/18/24

Well ID	Time	Well Size (in.)	Sheen/ Odor	Depth to Water (ft.) May 2024	Measured Depth to Water(ft.)	Depth to well bottom (ft.)	Measured Depth to Well Bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-31	0946	4		64.05	62.55	89.99	89.99		
MW-31A	0956	4		Dry	Dry	64.02	63.98		
MW-31B	0954	4		63.95	62.47	106.54	106.69		
MW-32	0943	2		67.25	64.41	133.3	133.21		
MW-33A	1035	2		Dry	Dry	64.71	59.65		
MW-33B	1030	2		64.92	63.70	90.21	89.79		
MW-34	1315	4		64.02	62.56	67.16	66.84		
MW-35	1320	4		63.97	62.57	104.42	103.79		
MW-36	0858	4		63.54	61.97	86.72	86.61		
MW-37	0855	4		63.33	61.66	108.26	107.98		
MW-38	0840	4		61.40	61.72	66.11	65.82		
MW-39	0837	4		63.20	61.61	87.1	86.92		
MW-40	0834	4		63.00	61.36	109.59	108.97		
MW-41	1015	4		64.98	63.61	97.7	97.65		
MW-42	1327	2		64.95	63.61	66.38	66.25		
MW-43	1332	2		64.83	63.41	86.86	86.76		
MW-44	1338	2		64.68	65.31	105.46	105.17		
MW-45	1301	2		63.28	61.78	88.61	88.60		
MW-46	1330	2		62.74	61.14	67.38	67.20		
MW-47	1335	2		62.67	61.07	87.84	87.75		
MW-48	1340	2		62.50	60.95	108.05	108.18		
MW-49	~~0858~~	2		61.67	59.96	69.91	69.68		
MW-50	0823	2		61.79	60.07	88.28	87.96		
MW-51	0826	2		61.75	60.08	108.41	107.92		
MW-52	1315	2		61.32	60.11	76.54	76.23		
MW-53	1320	2		61.71	60.14	95.95	99.78		
MW-54	1325	2		61.79	60.22	112.84	112.50		
MW-55R	0847	2		66.67	63.72	160	159.73		

Gauging

Project # 130072 Client Haley & Aldrich

Site Cooper Drum - South Gate 11/18/24

Well ID	Time	Well Size (in.)	Sheen/ Odor	Depth to Water (ft.) May 2024	Measured Depth to Water(ft.)	Depth to well bottom (ft.)	Measured Depth to Well Bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-56	1305	2		62.60	60.44	72.18	72.10		
MW-57A	0845	2		65.63	64.50	71	71.90		
MW-57B	0850	2		65.25	64.00	91	93.55		
MW-58	0855	2		69.10	64.75	71	67.04		
MW-59A	0800	2		Dry	Dry	62.91	62.88		
MW-59B	0750	2		65.66	64.50	79.67	79.40		
MW-59C	0755	2		65.69	64.44	92.78	92.51		
MW-60A	1108	2		66.05	64.91	77	76.57		
MW-60B	1114	2		66.06	64.78	102	101.15		
MW-61A	1160	2		65.20	63.90	76	75.80		
MW-61B	1105	2		65.21	63.80	88	87.50		
MW-62A	1049	2		65.65	64.17	77	77.09		
MW-62B	1056	2		65.62	64.28	107	105.8		
MW-63	1145	2		65.06	67.70	67.6	70.70		
MW-64A	1150	2		NM	66.42	84.5	86.60		
MW-64B	1135	2		NM	67.76	112.9	114.84		
EW-5	1120	-		64.93	63.65	-	72.68		
EW-8	0920	4		64.79	63.40	109.34	109.30		
EW-7A	1024	4		—	83.44		Pump		
EW-7B	1032	4		—	92.2		Pump		
PZ-7A	1039	2			64.71	174.93			
PZ-7B	1043	2			64.47	93.08			

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-1	Well Depth:	82.51 ft	Initial Depth To Water:	62.13 ft	Purging Device:	QED
Start time:	1340	Depth To Top Of Screen:	52 ft	Depth Of Pump Intake:	78 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	84 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1343	62.19	ml/min	300	0.9	21.2	7.73	2124	1.25	8	-20.9	
1346	62.22	↓	↓	1.8	21.2	7.65	2135	0.85	8	-25.8	
1349	62.22			2.7	21.2	7.65	2138	0.80	7	-23.1	
1352	62.22			3.6	21.2	7.65	2140	0.79	7	-20.5	
1355	62.22	↓	↓	4.5	21.2	7.65	2140	0.77	6	-20.9	
											MW-01-112224
											(W) 1357
											* MS/MSD *

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-2A	Well Depth:	62.70 ft	Initial Depth To Water:	DRY ft	Purging Device:	—
Start time:	—	Depth To Top Of Screen:	58 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☐ Yes ☒ No
Finish Time:	—	Depth To Bottom Of Screen:	62 ft			Tubing Type:	—

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments

No Sample Taken

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data: MW-2B

Well ID: ~~Q-DC-111924~~ DC Well Depth: 72.35 ft Initial Depth To Water: 65.00 ft Purging Device: QED

Start time: 1509 Depth To Top Of Screen: 68 ft Depth Of Pump Intake: 70 ft Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 1525 Depth To Bottom Of Screen: 72 ft Tubing Type: ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1512	64.92	200	200	600	21.9	7.27	2568	2.53	30	-85.9	
1515	64.91			1200	21.8	7.32	2609	2.62	29	-90.6	
1518	64.85			1800	21.8	7.34	2612	2.71	24	-89.3	
1521	64.98			2400	21.8	7.35	2634	2.83	25	-85.1	
1524	64.92			3000	21.8	7.36	2652	2.90	25	-83.3	
											MW-2B-111924 @ 1525

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	D G
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-2C	Well Depth:	92.28 ft	Initial Depth To Water:	64.80 ft	Purging Device:	QED
Start time:	1440	Depth To Top Of Screen:	80 ft	Depth Of Pump Intake:	90 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1456	Depth To Bottom Of Screen:	92 ft			Tubing Type:	ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1443	65.15	200	200	600	21.9	7.23	755	3.73	20	-1.9	
1446	65.29	"	"	1200	22.0	7.15	719	4.02	18	-2.1	
1449	65.34	"	"	1800	21.9	7.12	736	3.85	20	-3.3	
1452	65.24	"	"	2400	21.8	7.12	740	3.77	18	-1.7	
1455	65.15	"	"	3000	21.9	7.12	772	3.61	19	-0.2	
											MW-2C-111924 @ 1456

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID: MW-4 | Well Depth: 81.87 ft | Initial Depth To Water: 63.83 ft | Purging Device: QED

Start time: 1301 | Depth To Top Of Screen: 50 ft | Depth Of Pump Intake: ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 1323 | Depth To Bottom Of Screen: 82 ft | Tubing Type: Ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1304	64.04	400	400	1200	21.2	7.14	2674	1.71	15	49.9	
1307	64.11	"	"	2400	21.2	7.16	2665	2.89	14	50.6	
1310	64.31	"	"	3600	21.2	7.17	2664	3.64	16	53.2	
1313	64.33	"	"	4800	21.2	7.19	2662	4.54	15	58.9	MW-4 - 111924
1316	64.45	"	"	6000	21.2	7.21	2660	5.42	16	61.6	
1319	64.51	"	"	7200	21.2	7.23	2660	5.60	14	66.1	@ 1323
1322	64.57	"	"	8400	21.2	7.25	2658	5.48	14	68.9	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	11/14/24

Sampling Data:

Well ID:	MW-04B	Well Depth:	92.40 ft	Initial Depth To Water:	63.64 ft	Purging Device:	QED
Start time:	1330	Depth To Top Of Screen:	82 ft	Depth Of Pump Intake:	90' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	92 ft			Tubing Type:	

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1333	63.72	ml/min	300	0.9	21.4	6.84	1947	0.79	10	-190.7	
1336	63.75	↓	↓	1.8	21.3	6.84	2180	0.63	8	-182.6	
1339	63.75			2.7	21.3	6.84	2210	0.55	7	-170.9	
1342	63.75			3.6	21.3	6.83	2290	0.58	6	-162.8	
1345	63.75			4.5	21.3	6.83	2299	0.56	6	-160.9	
1348	63.75	↓	↓	5.4	21.3	6.83	2305	0.55	6	-158.3	
											Sample ID:
											MW-04B-111924
											@ 1350
											Dup: QC04-111924
											@ 1355
											EB: QC05-111924
											@ 1420

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-15	Well Depth:	85.07 ft	Initial Depth To Water:	63.80 ft	Purging Device:	QED
Start time:	0940	Depth To Top Of Screen:	70 ft	Depth Of Pump Intake:	80 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	85 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0943	63.89	ml/min	300	0.9	21.4	7.16	2495	0.99	12	-82.7	
0946	63.89			1.8	21.6	7.20	2530	0.98	9	-95.5	
0949	63.89			2.7	21.7	7.27	2560	0.90	8	-99.9	
0952	63.89			3.6	21.8	7.33	2654	0.72	8	-103.8	
0955	63.89			4.5	21.8	7.35	2666	0.70	8	-105.9	
0958	63.89	↓	↓	5.4	21.9	7.35	2668	0.69	7	-108.3	
											MW-15-112124
											@ 0900

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-15B	Well Depth:	103.00 ft	Initial Depth To Water:	63.70 ft	Purging Device:	QED
Start time:	0419	Depth To Top Of Screen:	93 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	103 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0422	63.75	ml/min	360	0.9	22.2	7.48	2398	1.40	2.5	-127.9	
0425	63.75	↓	↓	1.8	22.0	7.38	2669	0.75	22	-118.9	
0428	63.75			2.7	22.1	7.38	2695	0.62	21	-119.0	
0431	63.75			3.6	22.0	7.38	2700	0.61	21	-117.5	
0434	63.75	↓	↓	4.5	22.0	7.38	2705	0.60	20	-116.4	
											MW-15B-112024
											(DUP) 0430

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID: MW-16R | Well Depth: 136.72 ft | Initial Depth To Water: 65.60 ft | Purging Device:

Start time: 0815 | Depth To Top Of Screen: 127 ft | Depth Of Pump Intake: 133 ft | Tubing Present In Well: ☐ Yes ☐ No

Finish Time: | Depth To Bottom Of Screen: 137 ft | Tubing Type:

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0818	65.68	ml/min	300	0.9	20.4	7.67	1303	1.30	10	-175.7	
0821	65.68	↓	↓	1.8	20.7	7.49	1410	0.90	8	-196.9	
0824	65.68			2.7	20.5	7.49	1411	0.65	7	-200.5	
0827	65.68			3.6	20.8	7.49	1409	0.50	7	-198.5	
0830	65.68			4.5	20.9	7.50	1412	0.48	7	-199.6	
0833	65.68	↓	↓	5.4	20.9	7.50	1416	0.46	7	-199.5	
											MW-16R-112024
											(W) 0835

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-17	Well Depth:	75.72 ft	Initial Depth To Water:	64.40 ft	Purging Device:	
Start time:	1022	Depth To Top Of Screen:	69 ft	Depth Of Pump Intake:	75' ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	79 ft			Tubing Type:	

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1025	64.52	ml/min	300ml/min	0.9	19.6	7.83	3067	1.76	19	-24.3	
1028	64.55	↓	↓	1.8	20.9	7.59	3169	0.82	18	-57.6	
1031	64.55			2.7	21.0	7.65	3245	0.65	17	-72.8	
1034	64.55			3.6	21.1	7.62	3340	0.45	16	-81.9	
1037	64.55			4.5	21.1	7.60	3345	0.43	16	-83.5	
1040	64.55	↓	↓	5.4	21.1	7.60	3345	0.42	15	-85.6	
											MW-17-112024
											@ 1042

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	CV
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-18R	Well Depth:	131.60 ft	Initial Depth To Water:	66.60 ft	Purging Device:	QED
Start time:	0925	Depth To Top Of Screen:	122 ft	Depth Of Pump Intake:	129' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	132 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0928	66.20	ml/min	300	0.9	19.4	7.71	1520	1.10	5	-185.9	
0931	66.20	↓	↓	1.8	19.4	7.65	1549	0.58	7	-187.5	
0934	66.20			2.7	19.5	7.60	1563	0.59	7	-188.7	
0937	66.20			3.6	19.5	7.59	1565	0.57	7	-189.0	
0940	66.20	↓	↓	4.5	19.6	7.59	1570	0.56	7	-189.5	
											MW-18R-112124
											@ 0942

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-19	Well Depth:	77.34 ft	Initial Depth To Water:	65.00 ft	Purging Device:	QED
Start time:	0747	Depth To Top Of Screen:	67 ft	Depth Of Pump Intake:	72' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	77 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0750	65.10	ML/min	300	0.9	19.8	7.19	4136	1.80	12	-22.9	
0753	65.14	↓	↓	1.8	20.3	7.30	4200	0.80	11	-82.5	
0756	65.14			2.7	20.5	7.38	4279	0.79	10	-86.9	
0759	65.14			3.6	20.6	7.39	4270	0.75	10	-89.1	
0802	65.14	↓	↓	4.5	20.4	7.39	4269	0.72	10	-89.6	
											MW-19-112224
											(D) 0804
											* Q4

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-20	Well Depth:	68.29 ft	Initial Depth To Water:	63.60 ft	Purging Device:	QED
Start time:	1110	Depth To Top Of Screen:	55 ft	Depth Of Pump Intake:	67' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	70 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1113	63.72	ml/min	200	0.6	21.8	7.80	2048	0.64	8	-26.1	
1116	63.72	↓	↓	1.2	21.7	7.75	2051	050	8	-38.0	
1119	63.72			1.8	21.7	7.75	2050	0.45	7	-39.9	
1122	63.72			2.4	21.7	7.75	2050	0.43	7	-40.1	
1125	63.72	↓	↓	3.0	21.6	7.75	2051	0.40	6	-40.8	
											MW-20-112124
											@ 1127

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LJ
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-20B	Well Depth:	89.02 ft	Initial Depth To Water:	63.33 ft	Purging Device:	QED
Start time:	1445	Depth To Top Of Screen:	80 ft	Depth Of Pump Intake:	85' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	90 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1448	63.40	mw/min	300	0.9	21.9	7.28	1999	1.69	16	-129.1	
1451	63.40			1.8	21.9	7.10	2510	0.94	12	-139.6	
1454	63.40			2.7	22.0	7.05	2469	0.54	8	-139.4	
1457	63.40			3.6	21.9	7.06	2500	0.69	8	-138.4	
1500	63.40			4.5	21.9	7.06	2510	0.45	8	-137.0	
1503		↓	↓	5.4	21.9	7.06	2512	0.02	7	-135.9	
											Sample : MW-20B-111924
											(x2) 1505

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-21	Well Depth:	ft	Initial Depth To Water:	64.31 ft	Purging Device:	DG Qed ~~Ded. pump~~
Start time:	1407	Depth To Top Of Screen:	55 ft	Depth Of Pump Intake:	~~70~~ ~~65~~ DG ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1423	Depth To Bottom Of Screen:	75 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1410	64.33	200	200	600	23.5	7.69	2421	8.19	52	35.3	
1413	64.33	200	200	1200	23.0	6.99	2848	1.96	45	40.5	
1416	64.31	200	200	1800	22.9	6.98	2860	1.37	70	38.1	
1419	64.33	200	200	2400	22.7	6.96	2875	1.31	72	35.5	MW-21-112224
1423	64.33	200	200	3000	22.7	6.96	2884	1.27	69	30.6	@1423

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-22	Well Depth:	72.40 ft	Initial Depth To Water:	64.24 ft	Purging Device:	Ded
Start time:	0742	Depth To Top Of Screen:	63 ft	Depth Of Pump Intake:	68 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	0758	Depth To Bottom Of Screen:	73 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0745	64.24	200	200	600	19.7	6.83	3210	2.76	30	-90.8	
0748	64.24	200	200	1200	20.0	6.88	3201	1.75	27	-115.2	
0751	64.24	200	200	1800	20.4	6.89	3199	1.63	30	-125.1	
0754	64.24	200	200	2400	20.3	6.90	3203	1.53	24	-128.1	MW-22-112124
0757	64.24	200	200	3000	20.4	6.90	3197	1.44	28	-129.8	@ 0758

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-23	Well Depth:	79.52 ft	Initial Depth To Water:	65.08 ft	Purging Device:	BED
Start time:	1232	Depth To Top Of Screen:	69 ft	Depth Of Pump Intake:	75 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	79 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1235	65.12	ml/min	300	0.9	22.1	7.80	3558	1.22	18	-99.7	
1238	65.14	↓	↓	1.8	22.4	7.60	3959	0.60	14	-106.9	
1241	105.14	↓	↓	2.7	22.5	7.57	3980	0.49	13	-109.5	
1244	105.14	↓	↓	3.6	22.5	7.56	3986	0.48	13	-110.3	
1247	105.14	↓	↓	4.5	22.4	7.54	3985	0.45	12	-111.9	
											MW-23-112024
											(M) 1249
											QC09-112024 = DUP
											(M) 1254
											EB = QC10-112024
											(M) 1310

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-23B	Well Depth:	104.56 ft	Initial Depth To Water:	64.72 ft	Purging Device:	QED
Start time:	1320	Depth To Top Of Screen:	95 ft	Depth Of Pump Intake:	top ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	105 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1323	64.80	ml/min	300	0.9	23.4	7.74	2154	0.98	16	-152.4	
1326	64.82	↑	↑	1.8	23.2	7.66	2175	0.63	14	-130.9	
1329	64.82			2.7	23.1	7.65	2179	0.60	14	-126.5	
1332	64.82			3.6	23.1	7.64	2169	0.48	13	-123.6	
1335	64.82			4.5	23.1	7.65	2165	0.45	13	-120.9	
1338	64.82	↓	↓	5.4	23.1	7.65	2163	0.42	12	-120.1	
											MW-23B-112024
											(W) 1340

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-24	Well Depth:	84.95 ft	Initial Depth To Water:	63.02 ft	Purging Device:	Ged
Start time:	0936	Depth To Top Of Screen:	70 ft	Depth Of Pump Intake:	77.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	0958	Depth To Bottom Of Screen:	85 ft			Tubing Type:	ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0939	62.97	200	200	600	20.6	7.04	2114	2.91	35	-49.2	
0942	62.99	200	200	1200	20.7	7.05	~~2196~~	4.14	~~37~~	-57.7	
0945	62.99	200	200	1800	20.7	7.09	1664	6.15	34	-52.8	
0948	62.98	200	200	2400	20.8	7.11	1633	6.62	35	-46.6	
0951	62.98	200	200	3000	20.8	7.14	1602	7.10	35	-41.8	MW-24-112124 @
0954	62.98	200	200	3600	20.8	7.16	1609	7.17	34	-36.2	0958
0957	62.98	200	200	4200	20.9	7.19	1625	7.09	33	-33.2	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-25	Well Depth:	81.96 ft	Initial Depth To Water:	62.85 ~~88.96~~ DG ft	Purging Device:	Ded
Start time:	0858	Depth To Top Of Screen:	75 ft	Depth Of Pump Intake:	82 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	0914	Depth To Bottom Of Screen:	90 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0901	62.92	200	200	600	20.5	6.86	7885	1.02	33	-79.5	
0904	62.90	200	200	1200	20.7	6.89	3004	1.51	33	-94.1	
0907	62.92	200	200	1800	20.8	6.90	3015	1.40	34	-100.3	
0910	62.92	200	200	2400	20.9	6.91	3020	1.55	34	-105.1	MW-25-112724
0913	62.93	200	200	3000	20.9	6.92	3021	1.39	35	-108.3	@ 0914
0											

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-25B	Well Depth:	103.91 ft	Initial Depth To Water:	62.87 ft	Purging Device:	Qed
Start time:	0944	Depth To Top Of Screen:	95 ft	Depth Of Pump Intake:	100 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1008	Depth To Bottom Of Screen:	105 ft			Tubing Type:	qed

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0952	62.87	200	200	600	14.9	7.07	1870	2.00	23	34.5	
0955	62.88	200	200	1200	20.0	6.94	2289	1.30	22	-45.9	
0958	62.87	200	200	1800	14.8	6.94	2359	1.13	22	-64.4	
1001	62.88	200	200	2400	14.9	6.95	2373	1.02	21	-72.0	MW-25B-112224
1004	62.88	200	200	3000	20.0	6.95	2385	1.07	21	-75.3	1008
1007	62.88	200	200	3600	19.8	6.95	2388	1.09	21	-77.1	

LOW FLOW/MNA FIELD SAMPLING FORM

HALEY ALDRICH

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID: MW-26 (D) — Well Depth: 131.86 ft — Initial Depth To Water: 64.92 ft — Purging Device: Qed

Start time: ~~0804~~ 0812 — Depth To Top Of Screen: 122 ft — Depth Of Pump Intake: 127 ft — Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 0837 — Depth To Bottom Of Screen: 132 ft — Tubing Type: ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0815	64.82	200	200	600	19.7	6.65	2014	4.31		160.9	
0818	64.92	200	200	1200	19.5	6.85	3029	4.46		59.8	
0821	64.90	200	200	1800	19.4	~~7.00~~ 6.87	3085	5.31	309	60.3	
0824	64.92	200	200	2400	18.9	6.98	3079	5.38	388	62.4	
0827	64.92	200	200	3000	19.1	7.04	3083	5.39	389	67.7	MW-26-112224
0830	64.94	200	200	3600	19.7	7.00	3074	4.30	428	69.2	@ 0837
0833	64.89	200	200	4200	19.9	6.97	3061	4.28	444	71.8	
0836	64.92	200	200	4800	19.8	6.96	3086	4.32	457	68.9	~~MS/MSD~~ DG

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11-21-24

Sampling Data:

Well ID:	MW-27	Well Depth:	89.65 ft	Initial Depth To Water:	62.58 ft	Purging Device:	QED
Start time:	1320	Depth To Top Of Screen:	75 ft	Depth Of Pump Intake:	84 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1334	Depth To Bottom Of Screen:	90 ft			Tubing Type:	DED.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1323	62.58	200	200	600	22	7.16	1774	1.76	34	-43.2	
1326	62.60	200	200	1200	22	7.04	1756	1.11	31	-24.5	MW-27-112124
1329	62.60	200	200	1800	21.9	7.02	1753	0.83	29	-44.8	@ 13:39
1332	62.58	200	200	2400	21.9	7.01	1753	0.80	32	-68.1	
1335	62.58	200	200	3000	21.9	7.01	1757	0.92	31	-70.3	
1338	62.58	200	200	3600	21.9	7.00	1757	0.83	30	-77.3	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-28	Well Depth:	112.73 ft	Initial Depth To Water:	62.68 ft	Purging Device:	Qed
Start time:	1400	Depth To Top Of Screen:	104 ft	Depth Of Pump Intake:	109 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1419	Depth To Bottom Of Screen:	114 ft			Tubing Type:	Qed

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1403	62.88	200	200	600	22.3	7.21	946	1.68	31	-72.3	
1406	62.94	200	200	1200	22.5	6.94	1509	1.23	33	-113.1	
1409	62.98	200	200	1800	22.4	6.97	1941	0.80	35	-134.7	
1412	63.00	200	200	2400	22.3	6.98	2473	0.70	29	-142.3	MW-28-112424
1415	62.97	200	200	3000	22.2	6.99	2487	0.69	30	-136.0	@ 1419
1418	62.97	200	200	3600	22.2	6.98	2538	0.70	30	-134.8	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-29	Well Depth:	89.45 ft	Initial Depth To Water:	62.31 ft	Purging Device:	Ped
Start time:	1035	Depth To Top Of Screen:	75 ft	Depth Of Pump Intake:	82 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1051	Depth To Bottom Of Screen:	90 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or ~~(gal)~~	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1038	62.30	200	200	600	21.0	7.01	2132	1.37	26	-77.0	
1041	62.31	200	200	1200	21.2	6.96	2177	0.93	26	-92.6	
1044	62.30	200	200	1800	21.2	6.97	2185	0.76	25	-100.7	
1047	62.30	200	200	2400	21.1	6.98	2186	0.70	25	-103.8	MW-29-112224
1050	62.30	200	200	3000	21.3	6.98	2185	0.75	25	-106.3	@ 1051

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-29A	Well Depth:	66.03 ft	Initial Depth To Water:	62.12 ft	Purging Device:	Qed
Start time:	1216	Depth To Top Of Screen:	56 ft	Depth Of Pump Intake:	64 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1232	Depth To Bottom Of Screen:	66 ft			Tubing Type:	ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1219	62.12	200	200	600	22.1	7.01	2775	1.38	22	-20.5	
1222	62.12	200	200	1200	22.1	6.95	2727	0.78	21	-44.6	
1225	62.12	200	200	1800	22.1	6.94	2710	0.65	21	-56.0	
1228	62.12	200	200	2400	22.1	6.94	2702	0.68	21	-59.9	
1231	62.12	200	200	3000	22.1	6.94	2701	0.68	21	-61.6	MW-29A-112224 @ 1232

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG.
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID: MW-30 | Well Depth: 113.70 ft | Initial Depth To Water: 62.21 ft | Purging Device: ded

Start time: 1120 | Depth To Top Of Screen: 104 ft | Depth Of Pump Intake: ~~DG~~ ~~110~~ 109 ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 1142 | Depth To Bottom Of Screen: 114 ft | Tubing Type: ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1123	62.62	200	200	600	22.1	6.91	4637	1.54	27	-70.9	
1126	62.64	100	100	900	22.1	6.90	5204	1.38	29	-78.2	
1129	62.62	100	100	1200	22.2	6.92	5858	1.25	30	-86.3	
1132	62.62	100	100	1500	22.2	6.93	6015	1.09	28	-91.3	MW-30-112224
1135	62.62	100	100	1800	22.3	6.94	6072	1.11	27	-93.9	@ 1142
1138	62.62	100	100	2100	22.3	6.94	6090	1.11	27	-95.2	
1141	62.62	100	100	2400	22.3	6.94	6097	1.12	27	-95.9	

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11-21-24

Sampling Data:

Well ID:	MW-31	Well Depth:	89.99 ft	Initial Depth To Water:	62.60 ft	Purging Device:	QED
Start time:	11:23	Depth To Top Of Screen:	75 ft	Depth Of Pump Intake:	82 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1139	Depth To Bottom Of Screen:	90 ft			Tubing Type:	DED

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
11:26	62.61	200	200	600	21.9	6.99	4059	1.39	25	-55.1	
11:29	62.60	200	200	1200	22.0	6.97	4303	1.05	25	-75.7	MW-31-112124
11:32	62.60	200	200	1800	21.6	6.97	4330	0.95	25	-82.4	@ 1139
11:35	62.61	200	200	2400	22.0	6.97	4342	0.99	24	-87.1	
11:38	62.61	200	200	3000	22.1	6.96	4347	1.06	25	-89.8	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	~~11/21/24~~ DG
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-31A	Well Depth:	63.98 ft	Initial Depth To Water:	Dry ft	Purging Device:	—
Start time:	—	Depth To Top Of Screen:	— ft	Depth Of Pump Intake:	— ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:	—	Depth To Bottom Of Screen:	— ft			Tubing Type:	—

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
		NO Sample Taken									

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11-21-24

Sampling Data:

Well ID:	MW-31B	Well Depth:	106.69 ft	Initial Depth To Water:	62.44 ft	Purging Device:	QED
Start time:	1032	Depth To Top Of Screen:	97 ft	Depth Of Pump Intake:	102 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1048	Depth To Bottom Of Screen:	107 ft			Tubing Type:	DED

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1035	62.50	200	200	600	21.1	6.91	4596	~~1.87~~	41	-51.9	
1038	62.50	200	200	1200	21.3	6.88	5190	1.36	38	-75.5	
1041	62.50	200	200	1800	21.5	6.92	5346	1.05	39	-87.2	
1044	61.49	200	200	2400	21.4	6.93	5451	1.09	38	-90.1	
1047	61.8	200	200	3000	21.5	6.93	5479	1.12	38	-92.0	MW-31B 112124 @ 1048
											MS/MSD

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LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11-21-24

Sampling Data:

Well ID:	MW-32	Well Depth:	133.21 ft	Initial Depth To Water:	64.44 ft	Purging Device:	QED
Start time:	1247	Depth To Top Of Screen:	122 ft	Depth Of Pump Intake:	127 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1330	Depth To Bottom Of Screen:	132 ft			Tubing Type:	DED

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1250	64.44	200	200	600	22.2	7.33	3325	5.05	30	58.0	
1253	64.44	200	200	1200	22.3	7.04	3350	1.60	18	49.8	
1256	64.44	200	200	1800	22.3	6.98	3380	1.10	18	36.2	
1259	64.44	200	200	~~1800~~ 2400	22.3	6.97	3391	0.89	18	24.0	MW-32-112124
1302	64.44	200	200	~~2400~~ 3000	22.3	6.97	3378	0.82	19	18.2	@ 1306
1305	64.44	200	200	3600	22.2	6.97	3393	0.76	19	14.7	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-33A	Well Depth:	59.65 ft	Initial Depth To Water:	Dry ft	Purging Device:	
Start time:		Depth To Top Of Screen:	55 ft	Depth Of Pump Intake:	— ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	65 ft			Tubing Type:	

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments

No Sample Taken

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID: MW-33B | Well Depth: 94.79 ft | Initial Depth To Water: 63.74 ft | Purging Device:

Start time: ~~10~~ 1012 | Depth To Top Of Screen: 80 ft | Depth Of Pump Intake: 95' ft | Tubing Present In Well: ☐ Yes ☐ No

Finish Time: | Depth To Bottom Of Screen: 90 ft | Tubing Type:

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1015	63.80	1L/min	200	0.6	21.1	7.66	2506	0.93	13	-102.7	
1018	63.82	↓	↓	1.2	21.2	7.65	2610	0.69	12	-115.3	
1021	63.82			1.8	21.2	7.63	2649	0.58	12	-120.4	
1024	63.82			2.4	21.2	7.62	2665	0.56	11	-122.6	
1027	63.82	↓	↓	3.0	21.2	7.62	2655	0.56	11	-123.5	
											MW-33B-112124
											(W) 1029
											~~D63-112424~~
											~~(D) 1034~~

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-36	Well Depth:	86.92 ft	Initial Depth To Water:	62.01 ft	Purging Device:	QED
Start time:	949	Depth To Top Of Screen:	77 ft	Depth Of Pump Intake:	82 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1005	Depth To Bottom Of Screen:	87 ft			Tubing Type:	elect.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0952	62.12	400	400	1200	21.4	7.33	2202	6.24	103	-57.0	
0955	62.13	400	400	2400	21.3	7.37	2186	7.63	99	-51.5	
0958	62.16	400	400	3600	21.3	7.41	2195	8.55	88	-38.6	
1001	62.16	400	400	4800	21.3	7.44	2194	8.40	90	-32.6	
1004	62.20	400	400	6000	21.4	7.46	2188	8.52	87	-29.4	
											MW-36-111924 @ 1005

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-37	Well Depth:	107.98 ft	Initial Depth To Water:	61.87 ft	Purging Device:	Ded
Start time:	0817	Depth To Top Of Screen:	99.5 ft	Depth Of Pump Intake:	104.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	0833	Depth To Bottom Of Screen:	104.5 ft			Tubing Type:	Ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0820	61.89	200	200	600	20.5	7.18	2953	3.62	23	-61.8	
0823	61.87	|	|	1200	20.5	7.21	2927	3.69	20	-64.7	
0826	61.89	|	|	1800	20.7	7.24	2908	3.82	20	-68.4	
0829	61.87	|	|	2400	20.8	7.25	2915	3.90	20	-65.4	
0832	61.87	|	|	3000	20.9	7.26	2930	3.96	20	-65.1	MW-37-111924 @ 0833
											DUP-01-111924 @ 0838

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-38	Well Depth:	65.82 ft	Initial Depth To Water:	61.80 ft	Purging Device:	QED
Start time:	1113	Depth To Top Of Screen:	56.5 ft	Depth Of Pump Intake:	65' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	66.5 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1116	61.89	mL/min	300	0.9	20.7	7.15	3157	0.75	11	-38.1	
1119	61.92	↓	↓	1.8	21.0	7.05	3174	0.50	10	-49.6	
1122	↓	↓	↓	2.7	21.1	7.04	3175	0.40	8	-53.0	
1125	↓	↓	↓	3.6	21.1	7.04	3176	0.38	7	-57.4	
1129	↓	↓	↓	4.5	21.1	7.04	3178	0.36	7	-60.5	
											MW-38-111924
											@ 1130

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-39	Well Depth:	86.92 ft	Initial Depth To Water:	61.80 ft	Purging Device:	QED
Start time:	0926	Depth To Top Of Screen:	79 ft	Depth Of Pump Intake:	33' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	98 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0929	61.88	mL/min	300	0.9	20.4	6.88	3778	0.96	20	-127.1	
0932	61.89	↓	↓	1.8	20.7	6.85	3938	0.65	19	-128.3	
0935	61.89			2.7	20.8	6.88	3953	0.60	18	-129.5	
0938	61.88			3.6	20.9	6.89	3940	0.62	18	-131.3	
0941	61.98			4.5	20.9	6.88	3935	0.65	17	-133.0	
0944	61.89			5.4	20.9	6.88	3933	0.68	17	-135.1	Sample ID
											MW-39-111924
											Time @ 0946

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-40	Well Depth:	108.97 ft	Initial Depth To Water:	61.52 ft	Purging Device:	QED
Start time:	1029	Depth To Top Of Screen:	100 ft	Depth Of Pump Intake:	103 ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	110 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1032	61.58	ML/MIN	300	0.9	20.8	7.11	5066	0.91	9	-97.6	
1035	61.58	"	"	1.8	20.7	7.05	5110	0.76	7	-108.9	
1038	61.58	"	"	2.7	20.7	7.03	5108	0.68	7	-118.5	
1041	61.58	"	"	3.6	20.7	7.03	5108	0.65	6	-119.6	
1044	61.58	↓	↓	4.5	20.7	7.03	5110	0.62	6	-120.4	
											Sample ID:
											MW-40-111924
											Time: 1040

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-41	Well Depth:	97.65 ft	Initial Depth To Water:	63.85 ft	Purging Device:	ded
Start time:	0845	Depth To Top Of Screen:	89 ft	Depth Of Pump Intake:	84 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	0901	Depth To Bottom Of Screen:	99 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0848	63.86	200	200	600	20.8	7.12	4021	2.42	27	-68.3	
0851	63.85	200	200	1200	21.3	7.05	3971	2.54	26	-88.8	
0854	63.85	200	200	1800	21.4	7.06	3823	4.72	26	-76.3	
0857	63.85	200	200	2400	21.4	7.06	3816	4.89	26	-70.5	MW-41-112124
0900	63.85	200	200	3000	21.4	7.05	3820	4.69	20	-66.4	@ 0901

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-50	Well Depth:	87.96 ft	Initial Depth To Water:	60.18 ft	Purging Device:	QED
Start time:	10:37	Depth To Top Of Screen:	78 ft	Depth Of Pump Intake:	83 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1056	Depth To Bottom Of Screen:	88 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
~~1037~~		400	400								
1040	59.53			1200	21.2	7.72	3216	9.12	27	-51.1	
1043	59.86			2400	21.2	7.62	3239	8.23	20	-57.1	
1046	59.82			3600	21.2	7.56	3265	8.13	19	-59.1	
1049	59.62			4800	21.3	7.53	3282	7.20	21	-59.4	
1052	59.89			6000	21.2	7.50	3305	7.22	20	-59.0	MW-50-111924
1055	59.91			7200	21.2	7.48	3311	7.18	19	-59.7	@ 1056
											MS/MSD

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DL
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-51	Well Depth:	107.92 ft	Initial Depth To Water:	60.15 ft	Purging Device:	Ded
Start time:	1200	Depth To Top Of Screen:	98 ft	Depth Of Pump Intake:	103 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1216	Depth To Bottom Of Screen:	108 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1203	58.87	400	400	1200	21.2	7.3	4231	4.55	21	-73.5	
1206	58.85	"	"	2400	21.1	7.27	4292	5.37	19	-69.5	
1209	58.85	"	"	3600	21.2	7.28	4299	5.19	18	-67.0	MW-51-111924
1212	58.91	"	"	4800	21.2	7.27	4307	5.18	18	-65.0	@ 1216
1215	58.99	"	"	6000	21.2	7.28	4306	5.15	18	-63.5	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-53 2"	Well Depth:	99.78 ft	Initial Depth To Water:	60.16 ft	Purging Device:	QED
Start time:	1158	Depth To Top Of Screen:	90 ft	Depth Of Pump Intake:	95' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	100 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1201	60.22	ml/min	300	0.9	21.7	7.60	620	1.20	10	-132.9	
1204	60.25	|	|	1.8	22.1	7.50	320	1.18	8	-88.4	
1207	60.25	|	|	2.7	22.0	7.45	230	0.82	8	-62.9	
1210	60.25	|	|	3.6	22.0	7.45	228	0.80	7	-60.5	
1213	60.25	|	|	4.5	22.0	7.44	220	0.79	7	-56.3	MW-53-111924
1216	60.25	↓	↓	5.4	22.0	7.44	225	0.79	7	-54.9	(D) 1218

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-54	Well Depth:	112.50 ft	Initial Depth To Water:	60.34 ft	Purging Device:	QED
Start time:	1242	Depth To Top Of Screen:	108 ft	Depth Of Pump Intake:	110 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	113 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1245	60.48	ml/min	300	0.9	23.4	6.75	2688	1.36	12	-61.3	
1248	60.48	↓	↓	1.8	22.8	6.57	2745	0.58	11	-89.9	
1251	60.49	↓	↓	2.7	22.6	6.60	2749	0.76	11	-145.6	
1254	60.49	↓	↓	3.6	22.6	6.64	2665	0.75	10	-150.6	
1257	60.49	↓	↓	4.5	22.8	6.44	2869	0.74	10	-152.6	
1300	60.49	↓	↓	5.4	22.6	6.64	2572	0.72	9	-154.5	MW-54-111924
											(D) 1302

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-55R	Well Depth:	159.73 ft	Initial Depth To Water:	63.50 ft	Purging Device:	QED
Start time:	0823	Depth To Top Of Screen:	150 ft	Depth Of Pump Intake:	155 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	160 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0826	63.88	mL/min	300	0.900	21.0	6.86	1173	2.50	10	-214.3	
0829	63.90	↓	↓	1.8	21.1	6.86	1222	1.80	8	-211.1	
0832	63.90			2.7	21.1	6.87	1304	1.50	7	-193.5	
0835	63.90			3.6	21.0	6.89	1320	1.45	7	-185.8	
0838	63.90			4.5	20.9	6.90	1328	1.43	7	-180.6	
0841	63.90	↓	↓	5.4	20.9	6.90	1330	1.40	7	-179.6	
											MW-55R-111924
											Sample @ 0843
											Dup #
											QC3-111924 @ 0848

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-57A	Well Depth:	71.90 ft	Initial Depth To Water:	64.40 ft	Purging Device:	
Start time:	1038	Depth To Top Of Screen:	60 ft	Depth Of Pump Intake:	65' ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	70 ft			Tubing Type:	

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1033	64.52	ml/min	200	0.6	20.4	7.79	1709	0.90	70	-98.2	
1036	64.55			1.2	20.5	7.75	1705	0.69	61	-118.4	
1039	64.55			1.8	20.5	7.73	1700	0.65	60	-120.6	
1042	64.55			2.4	20.5	7.73	1699	0.63	58	-124.3	
1045	64.55	↓	↓	3.0	20.5	7.73	1695	0.60	56	-127.9	
											MW-57A-112224
											(D) 1047

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	12/27/24

Sampling Data:

Well ID:	MW-57B	Well Depth:	93.55 ft	Initial Depth To Water:	64.08 ft	Purging Device:	QED
Start time:	1115	Depth To Top Of Screen:	85 ft	Depth Of Pump Intake:	88 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	90 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1118	64.12	ml/min	300	0.9	20.4	7.72	839	1.60	18	-110.7	
1121	64.18	↓	↓	1.8	20.5	7.69	924	1.20	16	-115.5	
1124	64.18			2.7	20.6	7.65	1029	0.88	15	-119.1	
1127	64.18			3.6	20.6	7.63	1033	0.80	15	-120.9	
1130	64.18			4.5	20.6	7.62	1038	0.73	14	-122.5	
1133	64.18	↓	↓	5.4	20.6	7.62	1042	0.75	14	-123.6	
											MW-57B-20241227
											@ 1135
											~~4Q4~~

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-58	Well Depth:	67.04 ft	Initial Depth To Water:	64.40 ft	Purging Device:	QED
Start time:	1217	Depth To Top Of Screen:	60 ft	Depth Of Pump Intake:	65' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	70 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1220	64.55	mL/min	100	0.3	21.1	7.75	1750	0.99	45	-45.9	
1223	64.55			0.6	21.1	7.70	1707	0.82	40	-69.6	
1226	64.55			0.9	21.4	7.64	1738	0.72	35	-105.4	
1229	64.55			1.2	21.6	7.63	1750	0.70	24	-107.6	
1232	64.55			1.5	21.6	7.63	1755	0.69	23	-109.9	
1235	64.55	↓	↓	1.8	21.6	7.63	1758	0.69	22	-110.5	
											mw-58-112224
											(a) 1237
											QC21-112224 = EB
											(a) 1255
											QC22-112224 = FB
											(a) 1310

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-59A	Well Depth:	62.88 ft	Initial Depth To Water:	Dry ft	Purging Device:	—
Start time:		Depth To Top Of Screen:	58 ft	Depth Of Pump Intake:	— ft	Tubing Present In Well:	☐ Yes ☑ No
Finish Time:		Depth To Bottom Of Screen:	62 ft			Tubing Type:	—

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
		No Sample Taken									

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID: MW-59B | Well Depth: 79.67 ft | Initial Depth To Water: 64.38 ft | Purging Device: Ged

Start time: 1327 | Depth To Top Of Screen: 75 ft | Depth Of Pump Intake: 77 ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 1343 | Depth To Bottom Of Screen: 79 ft | Tubing Type: ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1330	64.30	200	200	600	23.2	6.96	2744	1.77	60	-58.8	
1333	64.31	200	200	1200	23.0	6.91	3145	1.00	55	-96.3	
1336	64.30	200	200	1800	23.0	6.92	3244	0.86	54	-102.2	
1339	64.30	200	200	2400	22.9	6.93	3309	0.81	54	-106.7	
1342	64.30	200	200	3000	22.8	6.93	3330	0.79	55	-108.1	MW-59B-112724 @ 1343

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/19/24

Sampling Data:

Well ID:	MW-59 ~~MW~~	Well Depth:	92.51 ft	Initial Depth To Water:	64.41 ft	Purging Device:	QED
Start time:	1404	Depth To Top Of Screen:	82 ft	Depth Of Pump Intake:	90 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1423	Depth To Bottom Of Screen:	92 ft			Tubing Type:	ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1407	64.75	400	400	1200	21.6	7.38	1097	2.55	20	-92.8	
1410	64.55	"	"	~~2400~~ 1500	21.7	7.33	1127	2.47	20	-104.9	
1413	64.50	"	"	~~3600~~ 1800	22.0	7.32	1131	2.47	18	-105.3	
1416	64.51	"	"	~~4800~~ 2100	22.3	7.32	1122	2.32	21	-103.7	
1419	64.54	"	"	~~6000~~ 2400	22.4	7.31	1104	2.50	20	-98.9	MW-59C-111924
1422	64.50	"	"	2700	22.4	7.31	1091	2.51	21	-96.8	@ 1423

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-60A	Well Depth:	76.57 ft	Initial Depth To Water:	64.80 ft	Purging Device:	Ded
Start time:	1021	Depth To Top Of Screen:	72 ft	Depth Of Pump Intake:	74.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1040	Depth To Bottom Of Screen:	77 ft			Tubing Type:	Ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1024	64.90	200	200	600	21.3	7.09	2941	3.74	46	-67.9	
1027	64.88	200	200	1200	21.7	7.14	2958	4.09	52	-66.2	
1030	64.85	200	200	1800	21.7	7.20	2941	4.15	61	-58.2	
1033	64.90	200	200	2400	21.8	7.24	2949	4.21	79	-49.7	MW-60A-112024 @
1036	64.88	200	200	3000	21.8	7.25	2970	4.17	84	-44.0	1040
1039	64.91	200	200	3600	21.8	7.27	2978	4.26	86	-41.7	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-60B	Well Depth:	101.15 ft	Initial Depth To Water:	64.81 ft	Purging Device:	Ded
Start time:	1057	Depth To Top Of Screen:	92 ft	Depth Of Pump Intake:	96.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1113	Depth To Bottom Of Screen:	101 ft			Tubing Type:	Ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1100	64.84	300	300	900	22.3	7.28	3840	2.60	43	-29.6	
1103	64.82	300	300	1800	22.0	6.97	4361	0.98	50	-67.5	
1106	64.80	300	300	2700	22.0	6.96	4398	0.92	47	-73.6	MW-60B-112024
1109	64.82	300	300	3600	22.1	6.96	4418	0.88	45	-77.8	@ 1113
1112	64.81	300	300	4500	22.0	6.96	4432	0.80	45	-81.4	

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LV
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-61A	Well Depth:	75.80 ft	Initial Depth To Water:	63.50 ft	Purging Device:	QED
Start time:	0930	Depth To Top Of Screen:	5.6 ft	Depth Of Pump Intake:	71' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	76 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0933	63.50	mL/min	300	0.9	19.1	7.66	3064	1.20	13	-91.1	
0936	63.88	↓	↓	1.8	20.5	7.63	3092	0.77	12	-105.5	
0939	63.89			2.7	20.8	7.62	3110	0.70	11	-109.6	
0942	63.88			3.6	20.5	7.60	3120	0.68	11	-110.8	
0945	63.88	↓	↓	4.5	20.7	7.60	3130	0.65	10	-113.9	
											MW-61A-112224
											@ 0947
											Q4 X

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LJ
CONTRACTOR	Blaine Tech	**DATE**	11/22/24

Sampling Data:

Well ID:	MW-61B	Well Depth:	87.50 ft	Initial Depth To Water:	63.84 ft	Purging Device:	GED
Start time:	0844	Depth To Top Of Screen:	83 ft	Depth Of Pump Intake:	85 ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	88 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0847	63.89	mL/min	300	0.9	20.2	7.82	1791	0.75	18	-115.9	
0850	63.92			1.8	20.3	7.48	1830	0.63	16	-119.9	
0853	63.92			2.7	20.4	7.43	1870	0.69	14	-130.5	
0856	63.92			3.6	20.5	7.42	1866	0.67	14	-132.5	
0859	63.92	↓	↓	4.5	20.5	7.42	1870	0.65	14	-133.6	
											MW-61B-112224
											(D) 0901

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID: MW-62A | Well Depth: 77.09 ft | Initial Depth To Water: 64.22 ft | Purging Device: Ded

Start time: 1147 | Depth To Top Of Screen: 68 ft | Depth Of Pump Intake: 72.5 ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 1203 | Depth To Bottom Of Screen: 77 ft | Tubing Type: ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1150	64.28	200	200	600	22.4	6.96	2380	0.88	43	-99.1	
1153	64.22	200	200	1200	22.4	6.96	2384	0.73	39	-111.3	
1156	64.26	200	200	1800	22.4	6.96	2389	0.58	37	-116.5	
1159	64.24	200	200	2400	22.4	6.97	2394	0.58	36	-120.5	MW-62A - 1200 @ 1203
1202	64.23	200	200	3000	22.3	6.97	2394	0.62	35	-122.6	

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	MW-62B	Well Depth:	105.8 ft	Initial Depth To Water:	64.25 ft	Purging Device:	ded
Start time:	1227	Depth To Top Of Screen:	101 ft	Depth Of Pump Intake:	103.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	106 ft			Tubing Type:	ded.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1230	64.31	300	300	900	22.3	6.99	2029	1.11	62	-55.6	
1233	64.28	300	300	1800	22.2	6.96	2035	0.65	66	-70.6	
1236	64.30	300	300	2700	22.1	6.96	2044	0.58	49	-79.3	MW-62B-112024
1239	64.29	300	300	3600	22.0	6.96	2054	0.55	47	-82.9	@ 1243
1242	64.28	300	300	4500	22.0	6.96	2062	0.54	47	-84.8	

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LJ
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-63	Well Depth:	70.70 ft	Initial Depth To Water:	67.75 ft	Purging Device:	Bio
Start time:	1435	Depth To Top Of Screen:	62.5 ft	Depth Of Pump Intake:	65' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	67.5 ft			Tubing Type:	¼"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1438	67.84	ml/min	300	0.9	21.7	7.78	1797	1.11	29	-151.5	
1441	67.85	↓	↓	1.8	21.6	7.77	1795	0.88	26	-156.9	
1444	67.85			2.7	21.5	7.73	1799	0.75	24	-160.5	
1447	67.85			3.6	21.5	7.72	1805	0.70	23	-163.5	
1450	67.85			4.5	21.5	7.71	1810	0.71	22	-165.9	
1453	67.85			5.4	21.5	7.71	1808	0.68	22	-165.1	
											MW-63-112124
											(D) 1455

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	MW-64A	Well Depth:	86.60 ft	Initial Depth To Water:	66.45 ft	Purging Device:	QED
Start time:	1249	Depth To Top Of Screen:	79.5 ft	Depth Of Pump Intake:	82 ft	Tubing Present In Well:	☐ Yes ☒ No
Finish Time:		Depth To Bottom Of Screen:	84.5 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1252	66.55	ML/min	300	0.9	22.3	7.35	2725	1.10	64	-120.7	
1255	66.58	↓	↓	1.8	22.1	7.30	2718	1.10	60	-145.8	
1258	66.58			2.7	22.0	7.26	2705	0.99	58	-148.9	
1301	66.58			3.6	22.0	7.26	2708	0.97	57	-149.8	
1304	66.58	↓	↓	4.5	22.0	7.26	2704	0.95	55	-149.5	
											(C) 1305
											~~QGLS - 1310~~ - 112124
											DUP (C) 1310
											QGLS - 112124 (C) 1310

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	
CONTRACTOR	Blaine Tech	**DATE**	

Sampling Data:

Well ID:	MW-64B	Well Depth:	114.84 ft	Initial Depth To Water:	67.80 ft	Purging Device:	QED
Start time:	1345	Depth To Top Of Screen:	107.5 ft	Depth Of Pump Intake:	110 ft	Tubing Present In Well:	~~Yes~~ ☑ No
Finish Time:		Depth To Bottom Of Screen:	112.5 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1348	67.88	mL/min	300	0.9	22.8	7.76	1255	1.90	16	-172.6	
1351	67.90	↓	↓	1.8	22.7	7.64	1689	0.94	14	-169.5	
1354	67.90			2.7	22.6	7.63	1759	0.65	13	-175.6	
1357	67.90			3.6	22.6	7.63	1780	0.60	12	-173.4	
1400	67.90			4.5	22.6	7.63	1755	0.59	12	-172.8	
1403	67.90	↓	↓	5.4	22.6	7.63	1788	0.58	11	-173.5	
											MW-64B-112124
											Sample @ 1405
											~~QC5 112124~~
											EB 1420
											QC10-112124 1420

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	~~MW~~ PZ-7A	Well Depth:	74.93 ft	Initial Depth To Water:	64.72 ft	Purging Device:	Qed
Start time:	1312	Depth To Top Of Screen:	70 ft	Depth Of Pump Intake:	72.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:	1328	Depth To Bottom Of Screen:	75 ft			Tubing Type:	qed.

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1315	64.80	200	200	600	23.6	6.92	2788	0.99	66	-101.5	
1318	64.76	200	200	1200	23.6	6.93	2795	0.72	57	-115.1	
1321	64.74	200	200	1800	23.4	6.94	2794	0.66	43	-120.8	
1324	64.72	200	200	2400	23.5	6.94	2793	0.57	41	-124.2	PZ-7A-112024
1327	64.76	200	200	3000	23.5	6.94	2793	0.54	42	-125.0	@ 1328

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	PZ-07B	Well Depth:	93.08 ft	Initial Depth To Water:	64.74 ft	Purging Device:	Ded
Start time:	1351	Depth To Top Of Screen:	88 ft	Depth Of Pump Intake:	90.5 ft	Tubing Present In Well:	☑ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	93 ft			Tubing Type:	Ded

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1354	64.74	300	300	900	22.8	6.96	2348	1.79	20	-80.6	
1357	64.75	300	300	1800	22.5	6.95	2397	0.93	18	-97.6	
1400	64.76	300	300	2700	22.4	6.96	2445	0.54	18	-104.8	
1403	64.74	300	300	3600	22.3	6.95	2475	0.52	18	-109.0	
1406	64.72	300	300	4500	22.5	6.93	2482	0.50	17	-116.2	
											PZ-07B-112024 @1407

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID: EW-A | Well Depth: — ft | Initial Depth To Water: — ft | Purging Device: Extraction (ded)

Start time: 0824 | Depth To Top Of Screen: 82 ft | Depth Of Pump Intake: — ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 0825 | Depth To Bottom Of Screen: 110.3 ft | Tubing Type: ded pump

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0824	N/A	—	—	—	17.9	6.82	2765	1.47	17	-60.1	
											EW-A-112024 @0825
											MS/MSD

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	EW-4	Well Depth:	— ft	Initial Depth To Water:	74.82 ft	Purging Device:	Ded. Pump (Extraction)
Start time:	0847	Depth To Top Of Screen:	68.4 ft	Depth Of Pump Intake:	— ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:	0848	Depth To Bottom Of Screen:	83 ft			Tubing Type:	ded. pump

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0844 (DG)	74.82	—	—	—	20.1	7.02	2589	1.44	21	56.8	
											EW-4-112024@ 0848

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID:	EW-05	Well Depth:	77.68 ft	Initial Depth To Water:	63.68 ft	Purging Device:	
Start time:	1140	Depth To Top Of Screen:	ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☐ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	ft			Tubing Type:	

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1143	63.74	ml/min	300	0.9	21.7	7.75	2181	0.69	12	-153.4	
1146	63.74	↓	↓	1.8	21.7	7.70	2260	0.60	8	-158.9	
1149	63.74			2.7	21.8	7.70	2249	0.55	8	-159.4	
1152	63.74			3.6	21.9	7.70	2245	0.53	7	-160.9	
1155	63.74	↓	↓	4.5	21.9	7.70	2249	0.58	7	-162.5	
											EW-05-112024
											(D) 1157

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DC
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID: EW-07A ~~112624~~ DC | Well Depth: — ft | Initial Depth To Water: — ft | Purging Device: Extraction Well

Start time: 0929 | Depth To Top Of Screen: 69.21 ft | Depth Of Pump Intake: — ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: 0930 | Depth To Bottom Of Screen: 83.72 ft | Tubing Type: ded. pump

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0929	—	—	—	—	20.9	6.96	7940	1.37	22	-90.4	
											EW-07A-112024 @ 0930

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID: ~~MW-~~EW-7B | Well Depth: — ft | Initial Depth To Water: — ft | Purging Device: Extraction Well

Start time: — | Depth To Top Of Screen: 88 ft | Depth Of Pump Intake: — ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: — | Depth To Bottom Of Screen: 93 ft | Tubing Type: ded. pump

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0944	—				21.3	7.07	34971	1.35	20	-37.4	
											EW-7B-112024 @ 0945

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	LW
CONTRACTOR	Blaine Tech	**DATE**	11/21/24

Sampling Data:

Well ID:	EW-08	Well Depth:	109.30 ft	Initial Depth To Water:	63.45 ft	Purging Device:	QED
Start time:	0750	Depth To Top Of Screen:	99.37 ft	Depth Of Pump Intake:	95' ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:		Depth To Bottom Of Screen:	109.9 ft			Tubing Type:	1/4"

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0753	63.49	ml/min	300	0.9	20.5	6.54	200	1.40	19	-70.4	
0756	63.54	↓	↓	1.8	20.8	6.53	210	0.79	15	-82.9	
0759	63.54			2.7	20.9	6.58	212	0.68	13	-95.5	
0802	63.54			3.6	20.8	6.63	214	0.65	13	-98.9	
0805	63.54			4.5	20.9	6.65	216	0.62	12	-100.1	
0808	63.54	↓	↓	5.4	20.9	6.65	219	0.60	12	-102.5	
											EW-08-112124
											(4) 0810

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT	4Q 2024 Semi-Annual Groundwater Sampling	**H&A FILE NO.**	130072-041
LOCATION	9313 Rayo Avenue, South Gate, California	**PROJECT MGR.**	C. Tsiatsios
CLIENT	Cooper Drum Cooperating Parties Group	**FIELD REP**	DG
CONTRACTOR	Blaine Tech	**DATE**	11/20/24

Sampling Data:

Well ID: PTW-2 | Well Depth: — ft | Initial Depth To Water: — ft | Purging Device: Extraction

Start time: — | Depth To Top Of Screen: 58.7-65.2 ft | Depth Of Pump Intake: — ft | Tubing Present In Well: ☑ Yes ☐ No

Finish Time: — | Depth To Bottom Of Screen: 68.7 - 75.3 ft | Tubing Type: ded. pump

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments

No Sample Taken

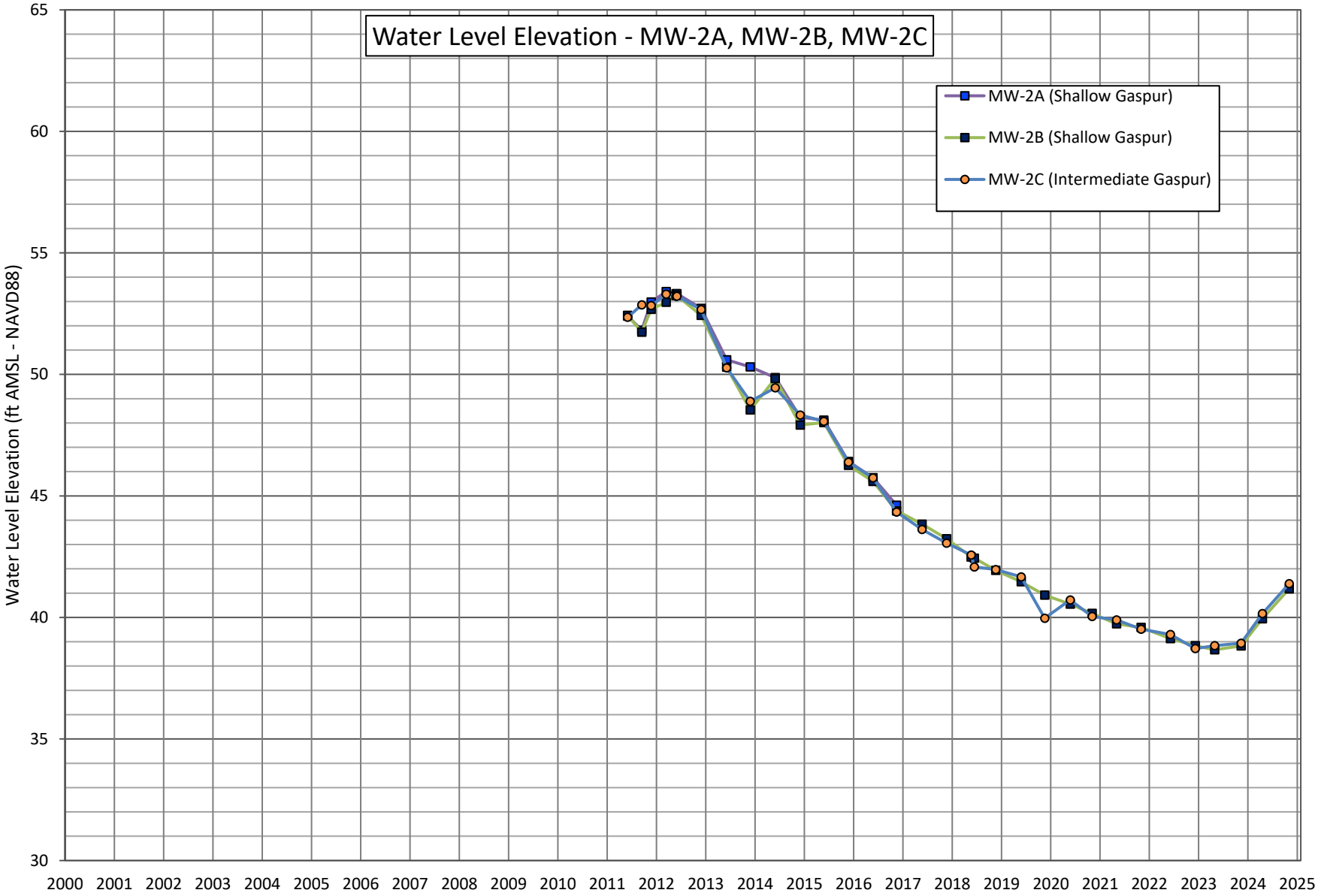
TEST EQUIPMENT CALIBRATION LOG

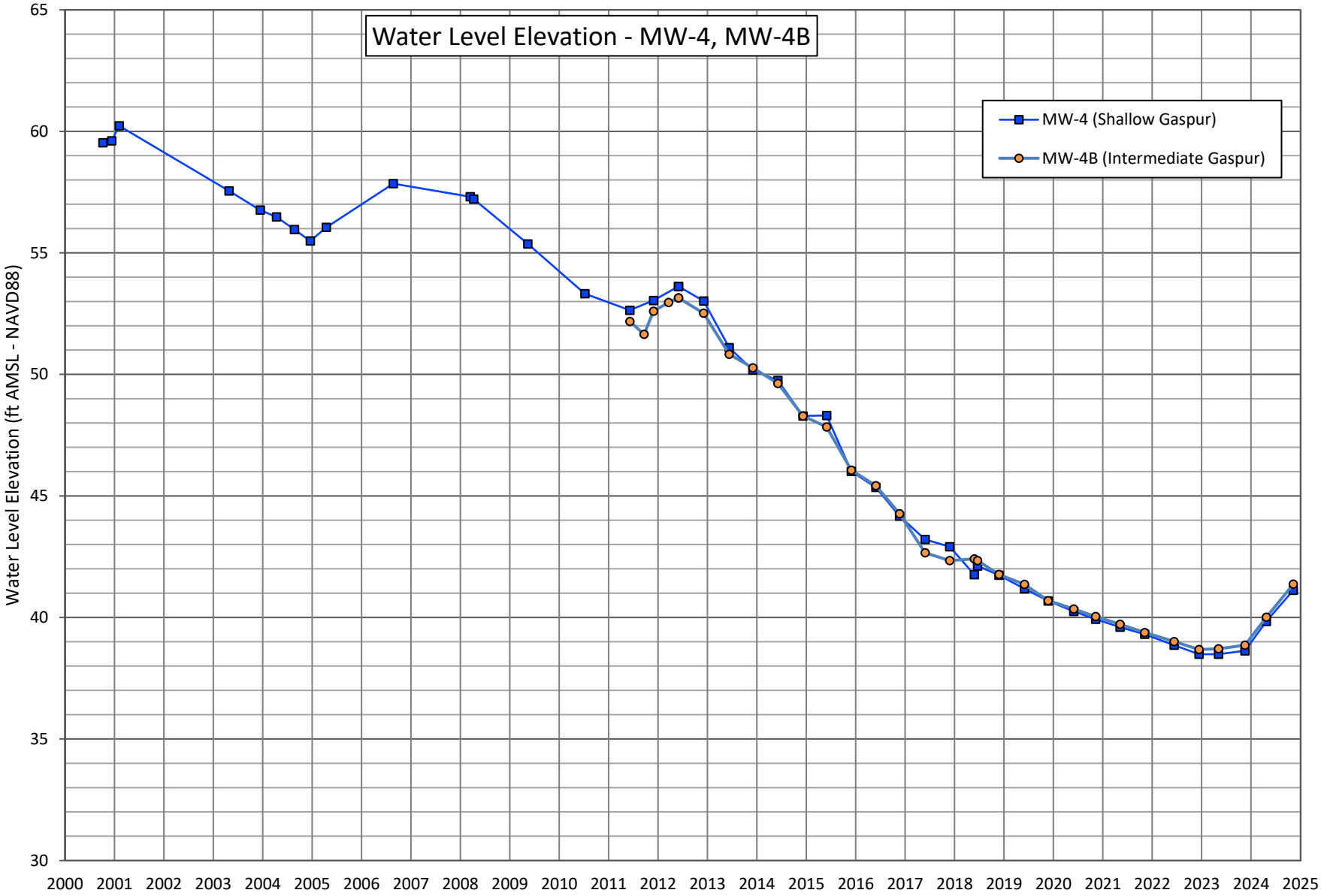
PROJECT NAME Cooper Drum				PROJECT NUMBER 241118-DG1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI pro Q	22A103079	11/19/24	pH: 4, 7, 10 ORP 240.0 conduct 3900	4.00, 7.00, 10.03 240.0 3900	✓	18.1°C	✓
↓	↓	11/20/24	↓	4.05, 7.05, 10.03 240.3 3900	✓	18.5°C	✓
↓	↓	11/21/24	↓	4.03, 7.00, 10.02 241.0 3910	✓	17.9°C	✓
↓	↓	11/22/24	↓	4.00, 7.00, 10.02 240.9 3880	✓	16.8°C	✓

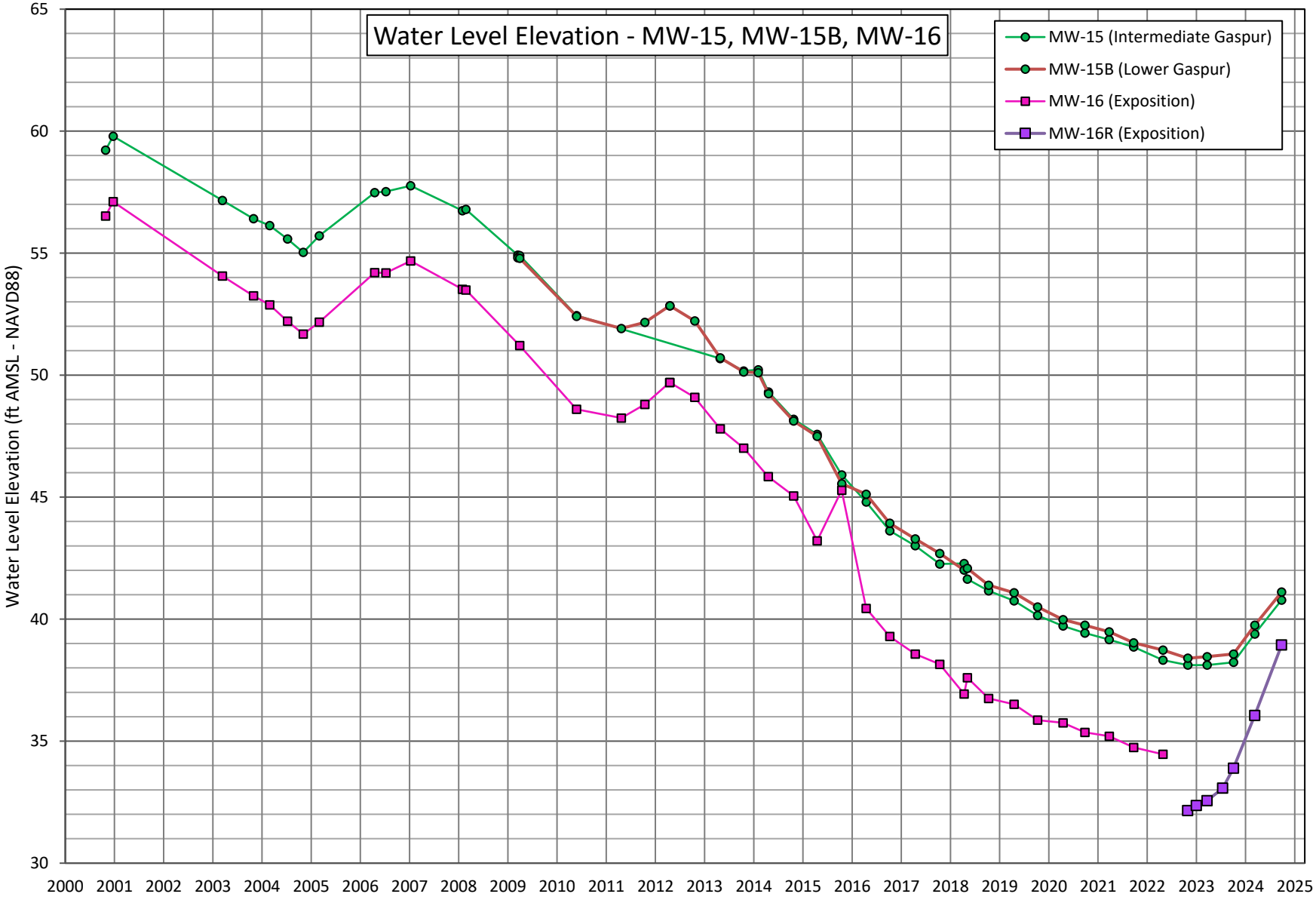
TEST EQUIPMENT CALIBRATION LOG

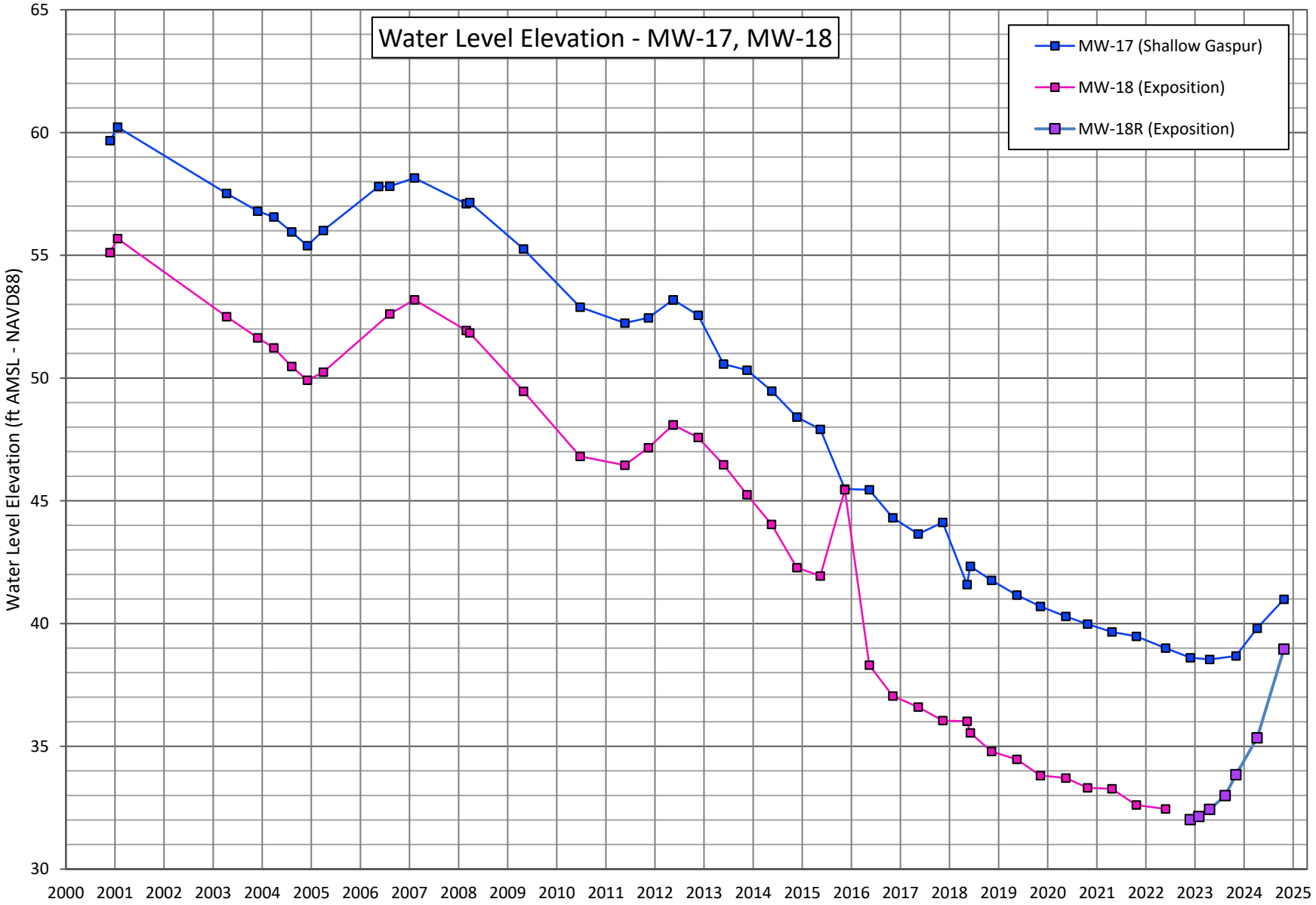
PROJECT NAME				PROJECT NUMBER 241118-DG-1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI ProPlus	21A103790	11/19/24 0600	pH 7.00 4.00 10.00 ORP 240.0 Cond 3900 DO 0 108	6.82 4.78 9.69 243.5 3903 4% 102.6	✓	21.8	DG
↓	↓	11/20/24 0600	↓	7.42 4.24 10.10 242.8 103.6 3912 ~~15.836~~	✓	15.8	DG
↓	↓	11/21/24 0600	↓	7.04 3.98 9.88 243.1 3923 106.3	✓	16.1	DG
↓	↓	0600 11/22/24	↓	7.08 4.06 3.89 241.2 3946 112.1	✓	16.3	DG

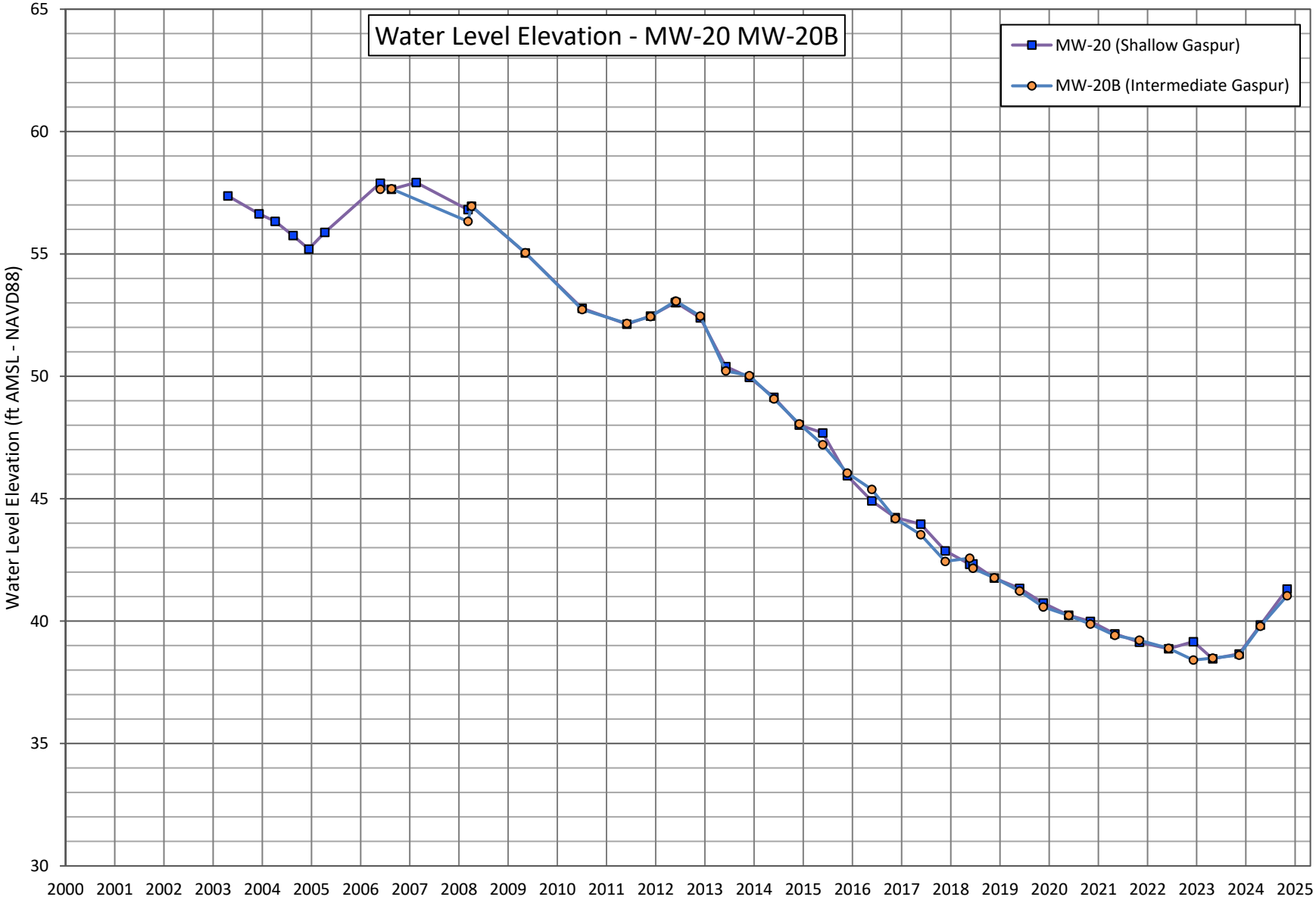
APPENDIX C
Water Level Plots

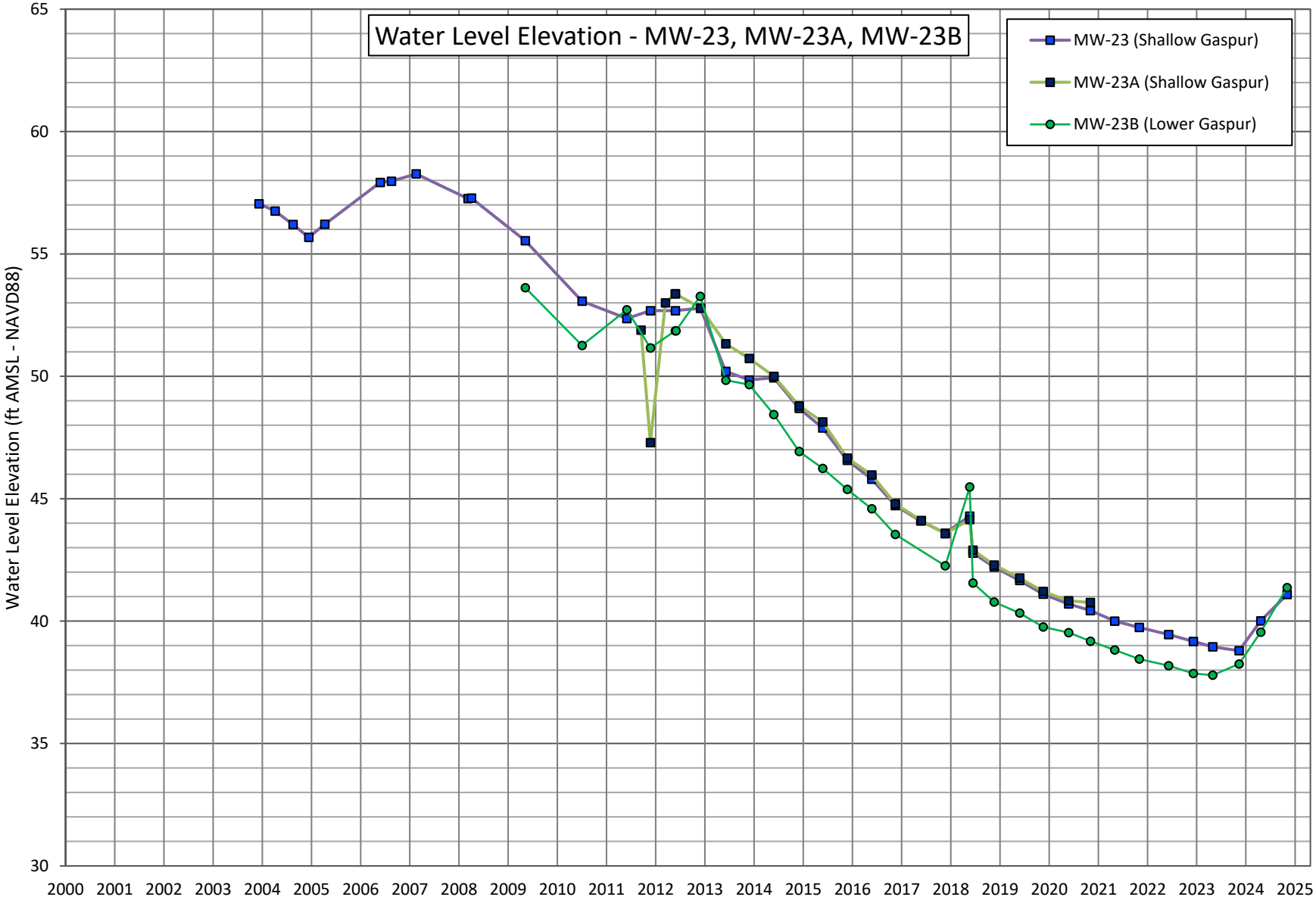

Water Level Elevation - MW-2A, MW-2B, MW-2C
MW-2A (Shallow Gaspur)
MW-2B (Shallow Gaspur)
MW-2C (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

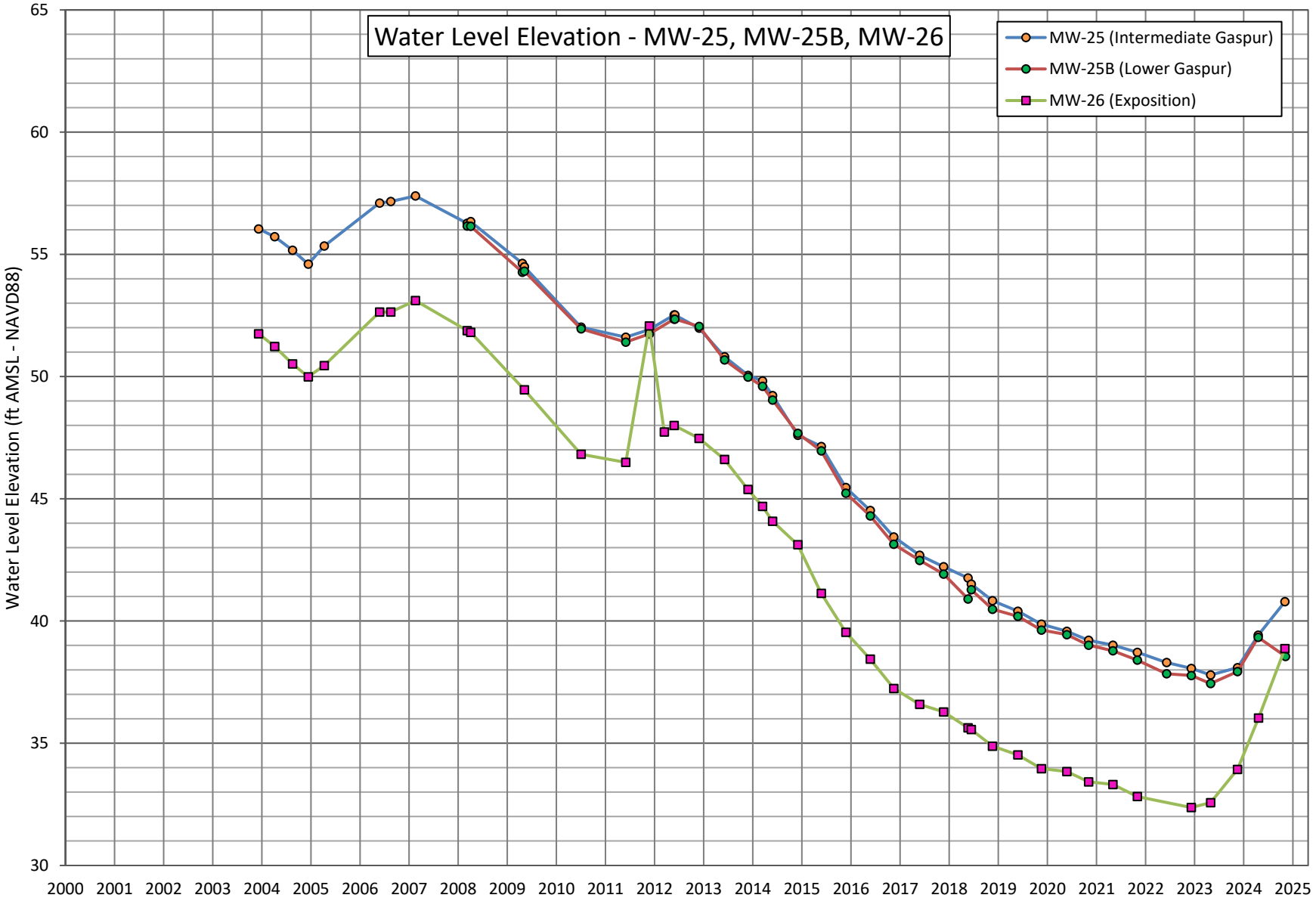

Water Level Elevation - MW-4, MW-4B
MW-4 (Shallow Gaspur)
MW-4B (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2012
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2018
2019
2020
2021
2022
2023
2024
2025

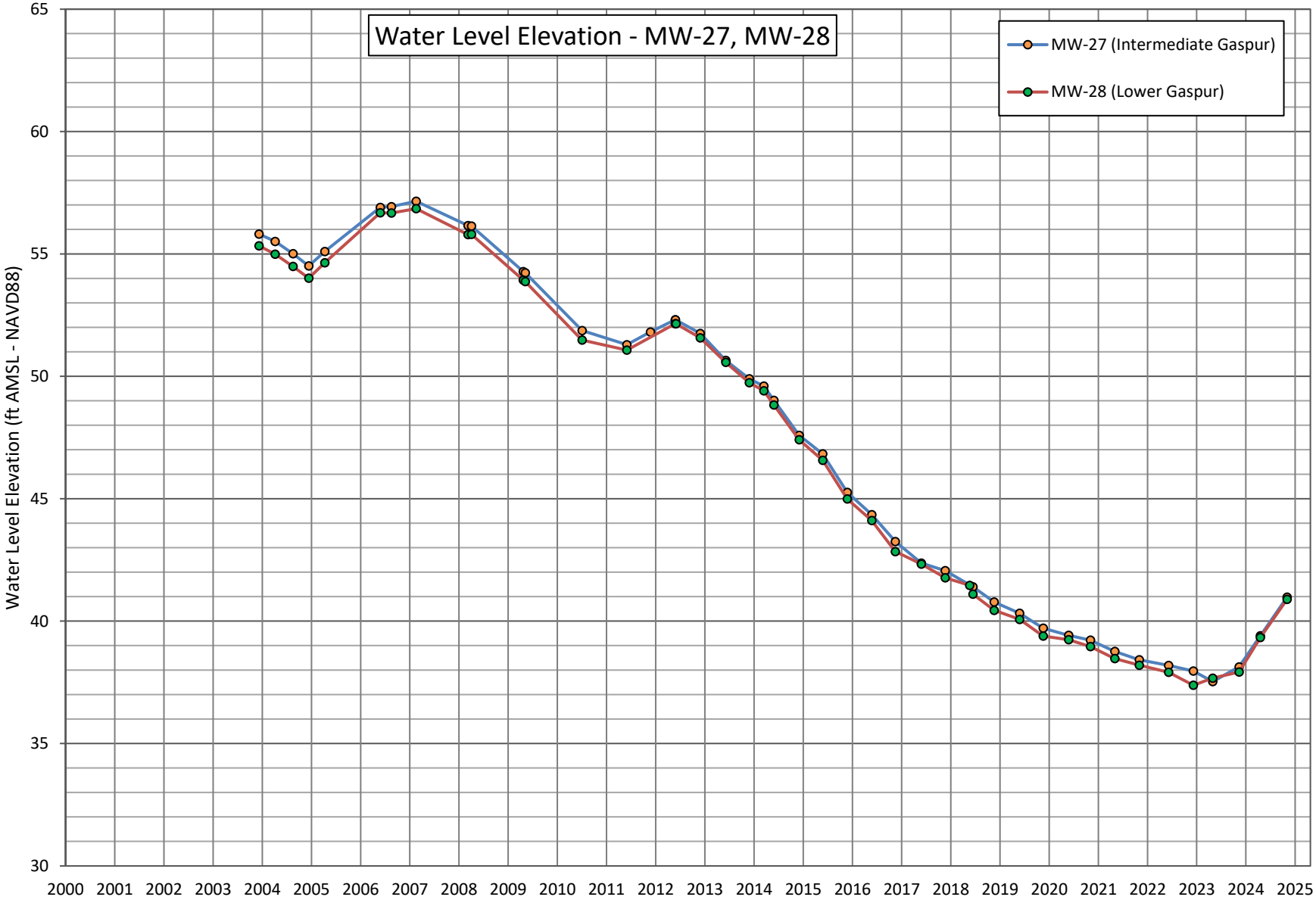

Water Level Elevation - MW-15, MW-15B, MW-16
MW-15 (Intermediate Gaspur)
MW-15B (Lower Gaspur)
MW-16 (Exposition)
MW-16R (Exposition)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

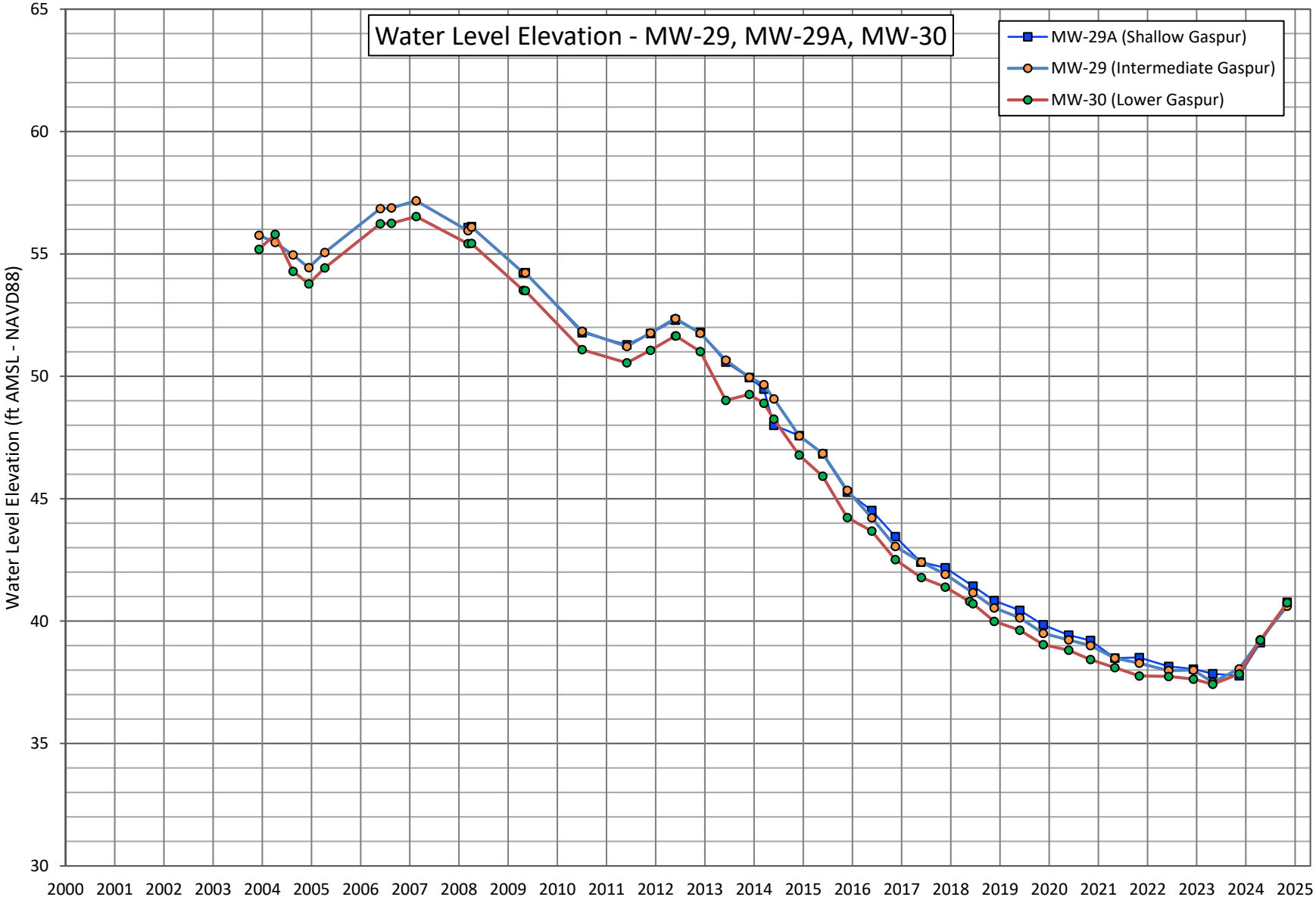

Water Level Elevation - MW-17, MW-18
MW-17 (Shallow Gaspur)
MW-18 (Exposition)
MW-18R (Exposition)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
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2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

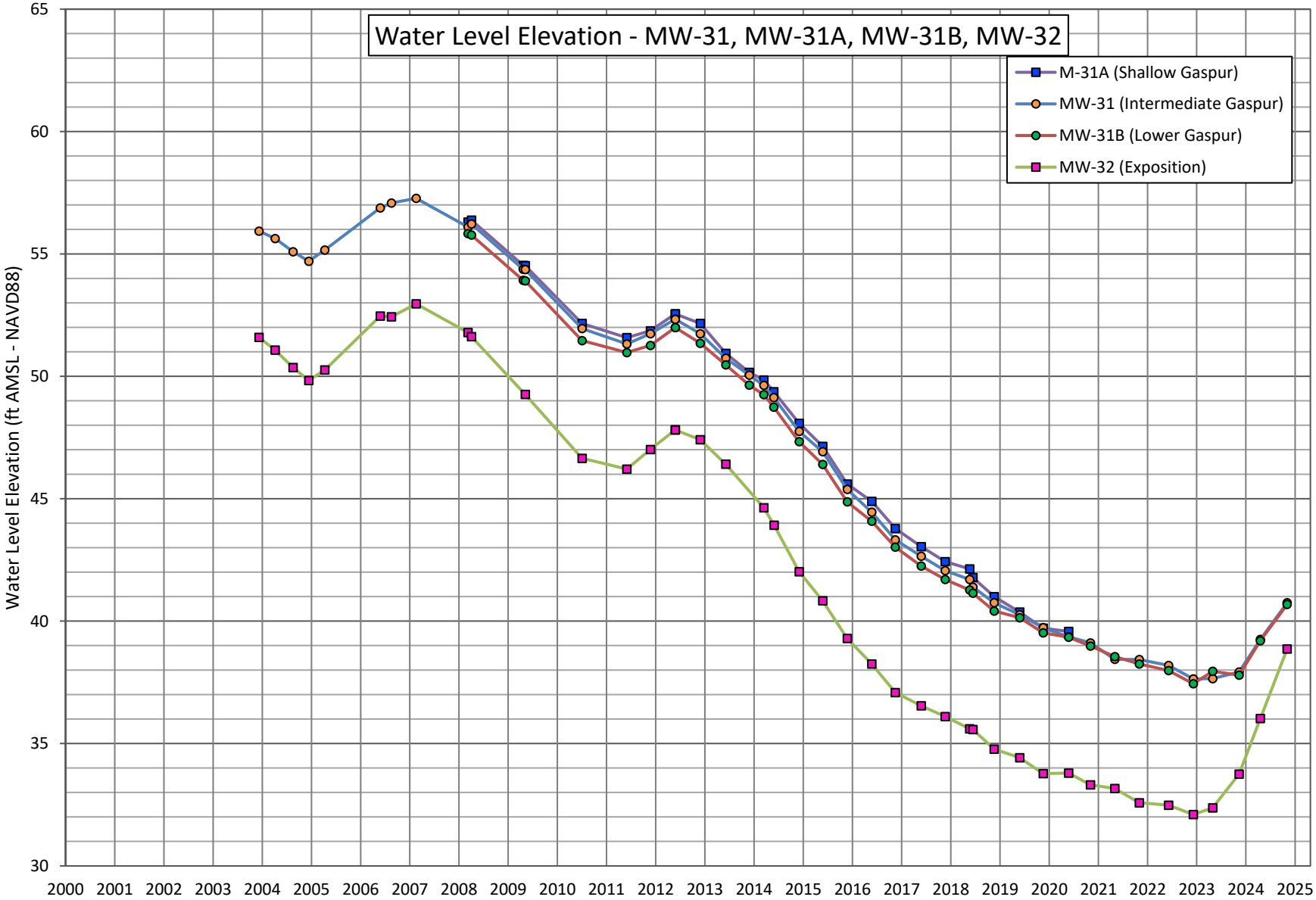

Water Level Elevation - MW-20 MW-20B
MW-20 (Shallow Gaspur)
MW-20B (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2017
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2019
2020
2021
2022
2023
2024
2025

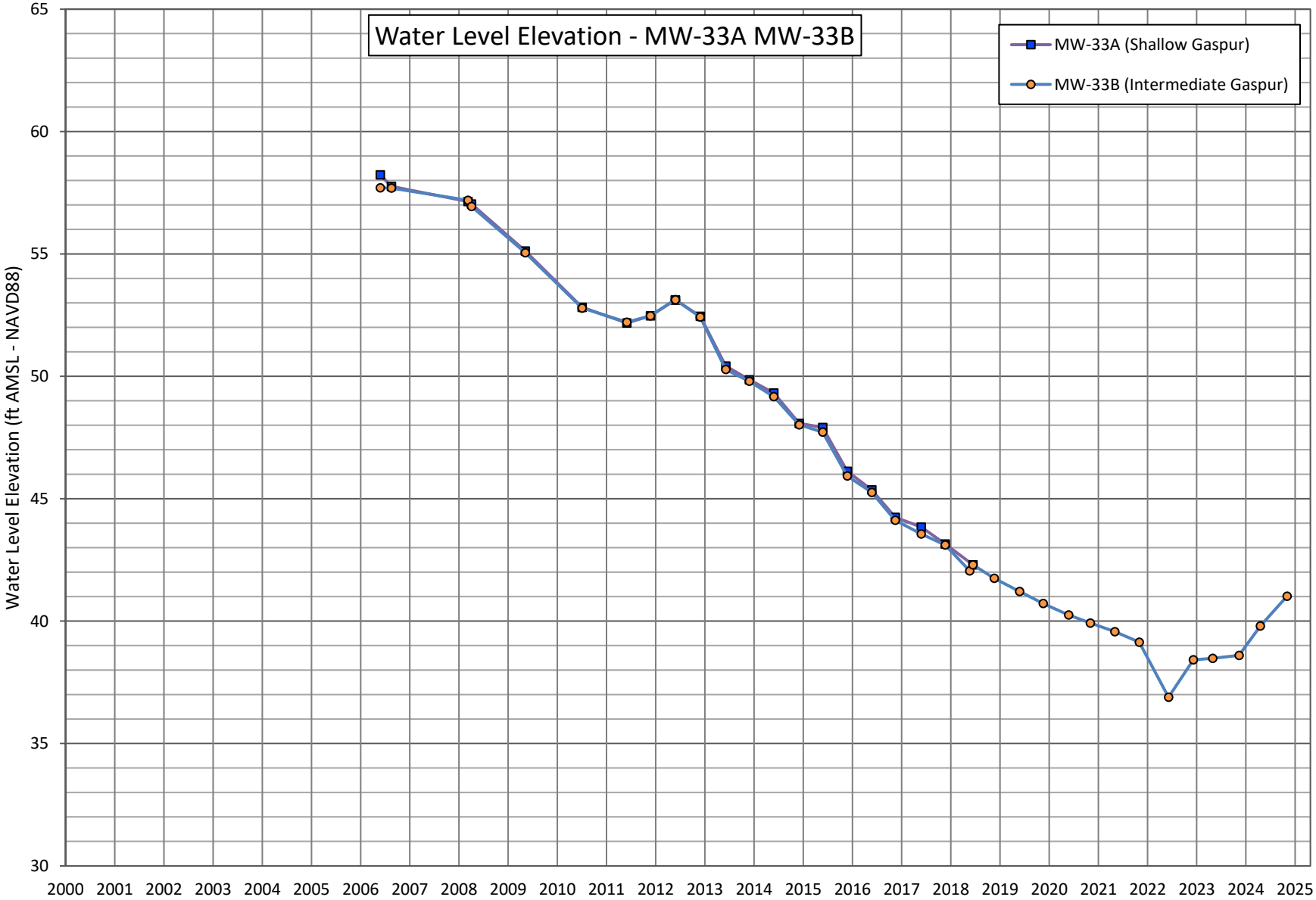

Water Level Elevation - MW-23, MW-23A, MW-23B
MW-23 (Shallow Gaspur)
MW-23A (Shallow Gaspur)
MW-23B (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
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2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

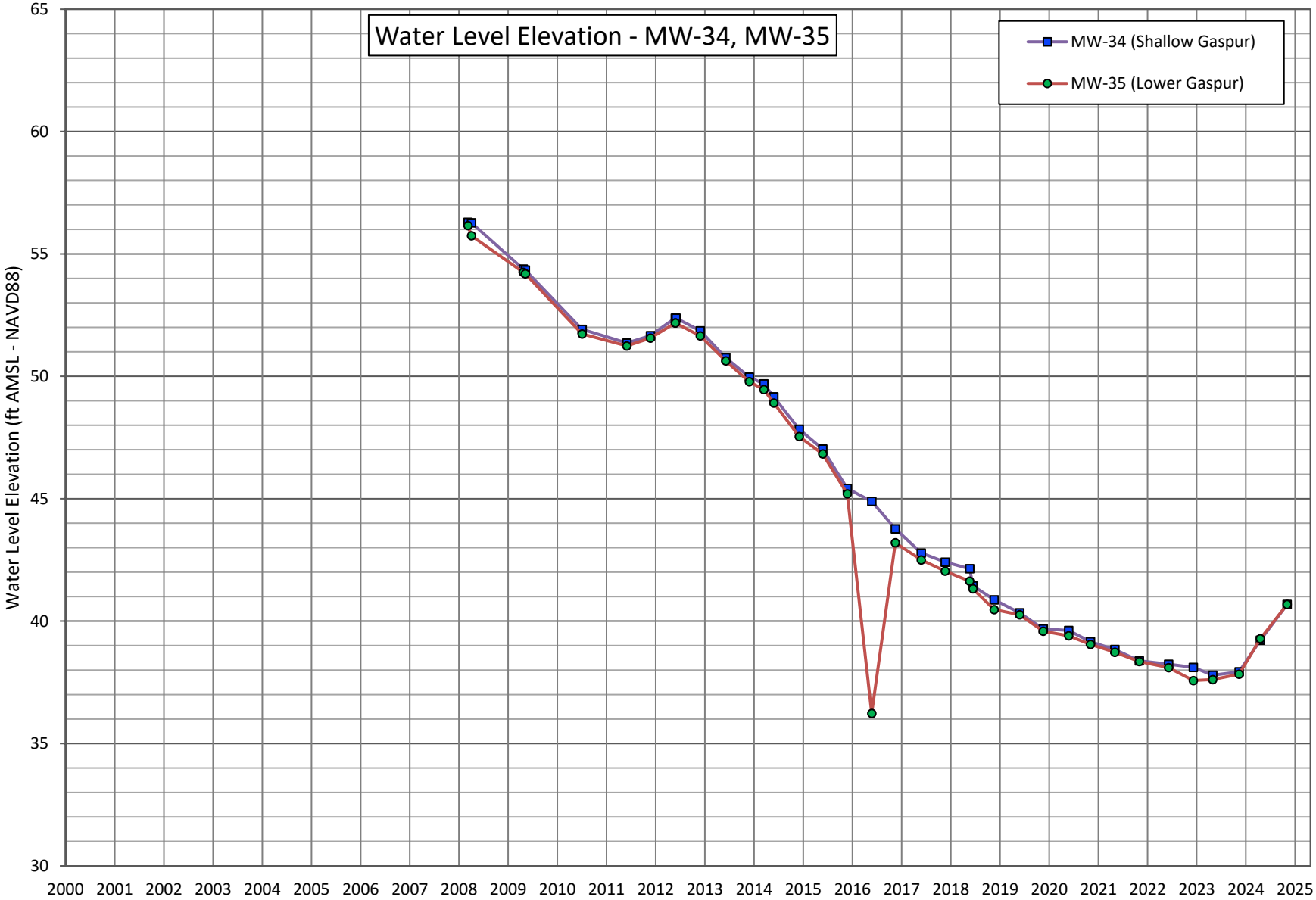

Water Level Elevation - MW-25, MW-25B, MW-26
MW-25 (Intermediate Gaspur)
MW-25B (Lower Gaspur)
MW-26 (Exposition)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2011
2012
2013
2014
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2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

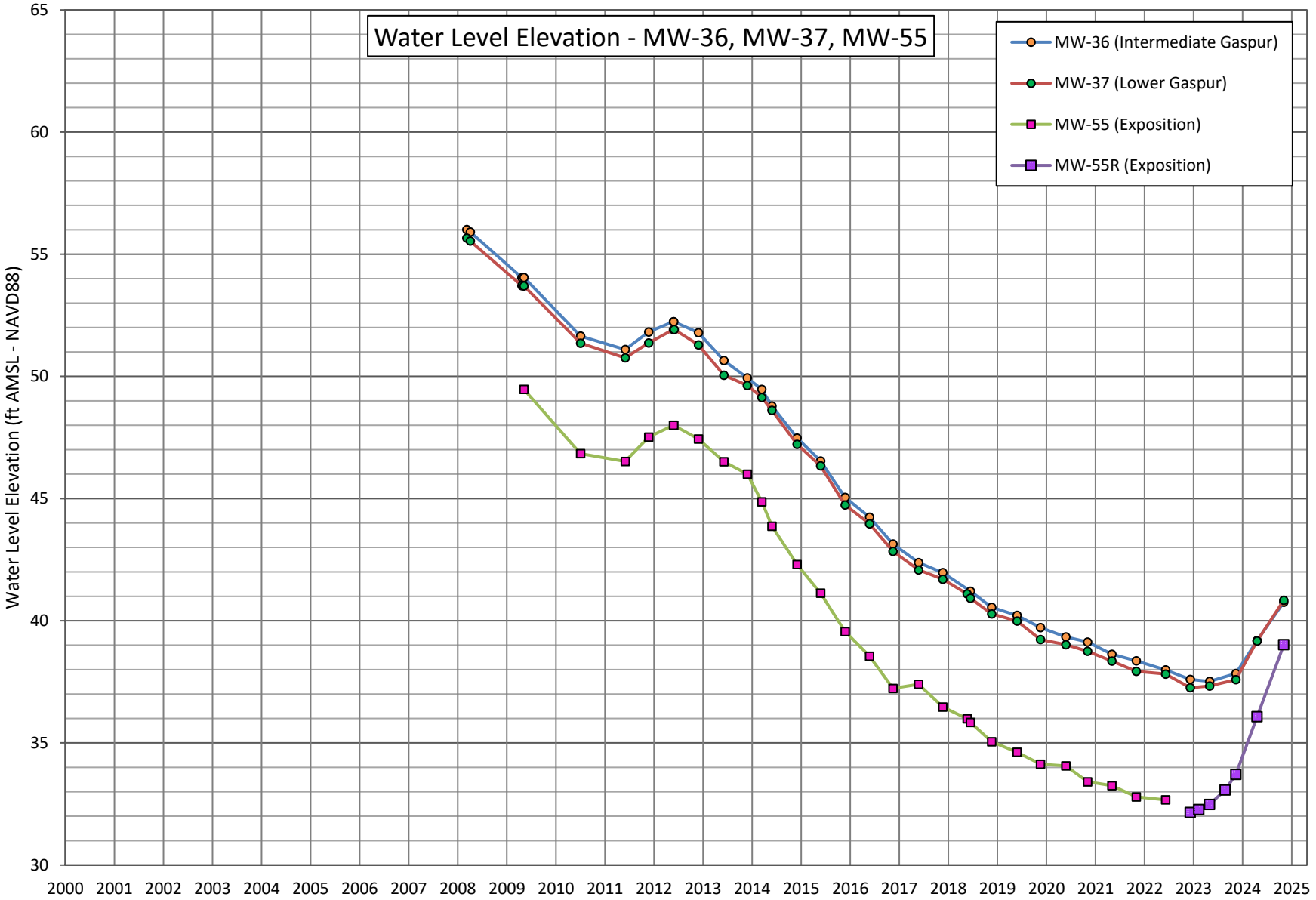

Water Level Elevation - MW-27, MW-28
MW-27 (Intermediate Gaspur)
MW-28 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
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2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

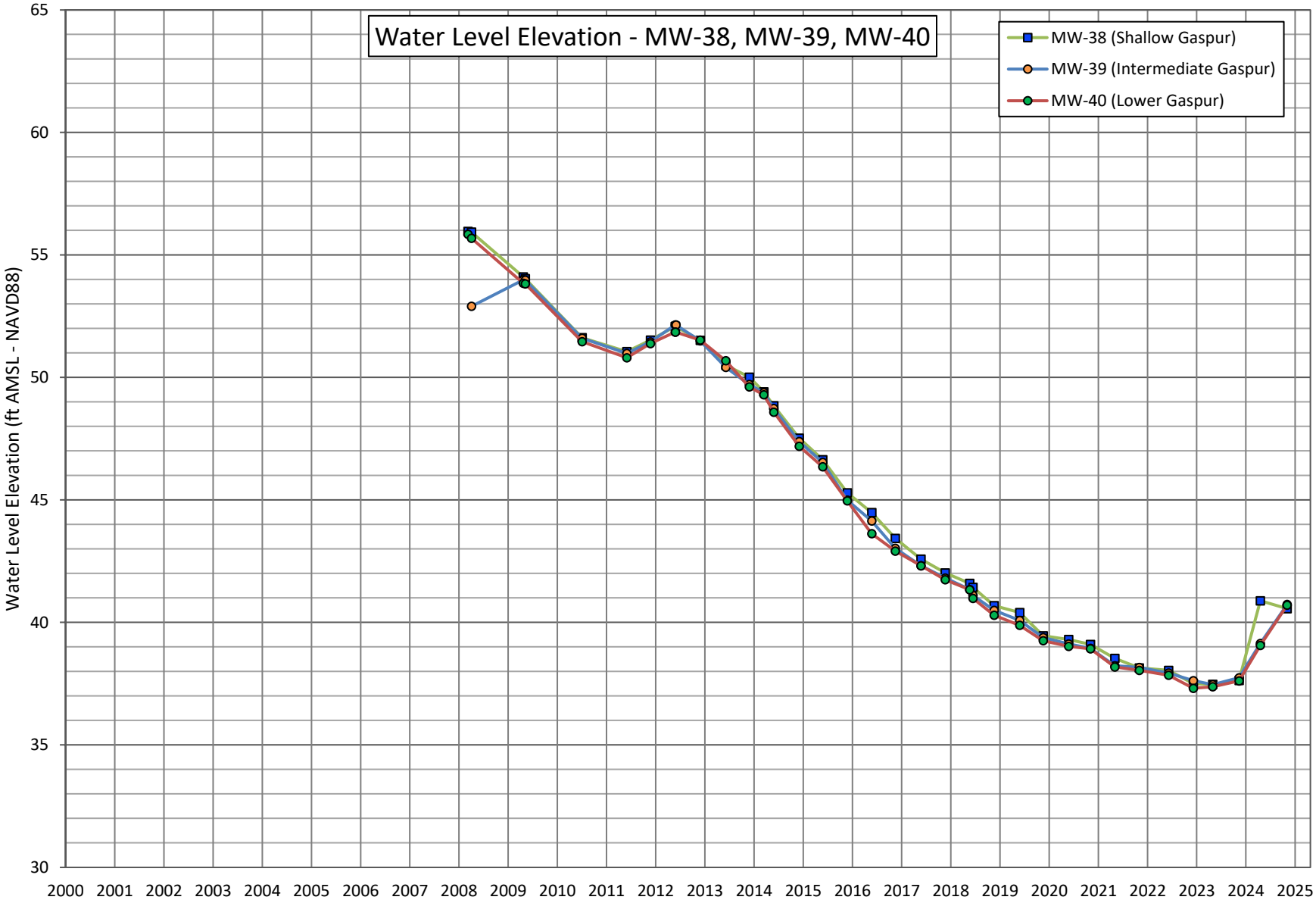

Water Level Elevation - MW-29, MW-29A, MW-30
MW-29A (Shallow Gaspur)
MW-29 (Intermediate Gaspur)
MW-30 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
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2017
2018
2019
2020
2021
2022
2023
2024
2025

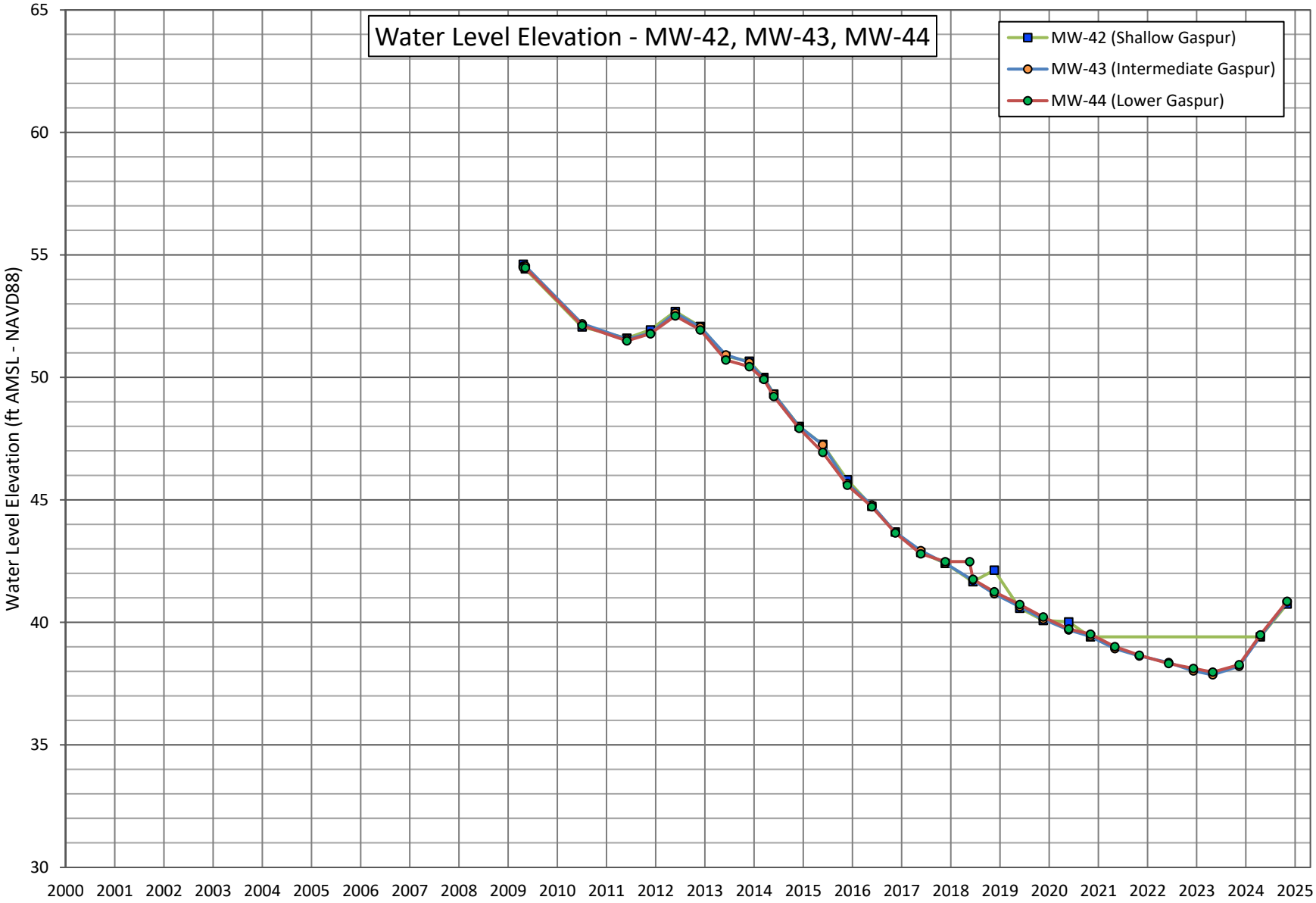

Water Level Elevation - MW-31, MW-31A, MW-31B, MW-32
M-31A (Shallow Gaspur)
MW-31 (Intermediate Gaspur)
MW-31B (Lower Gaspur)
MW-32 (Exposition)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

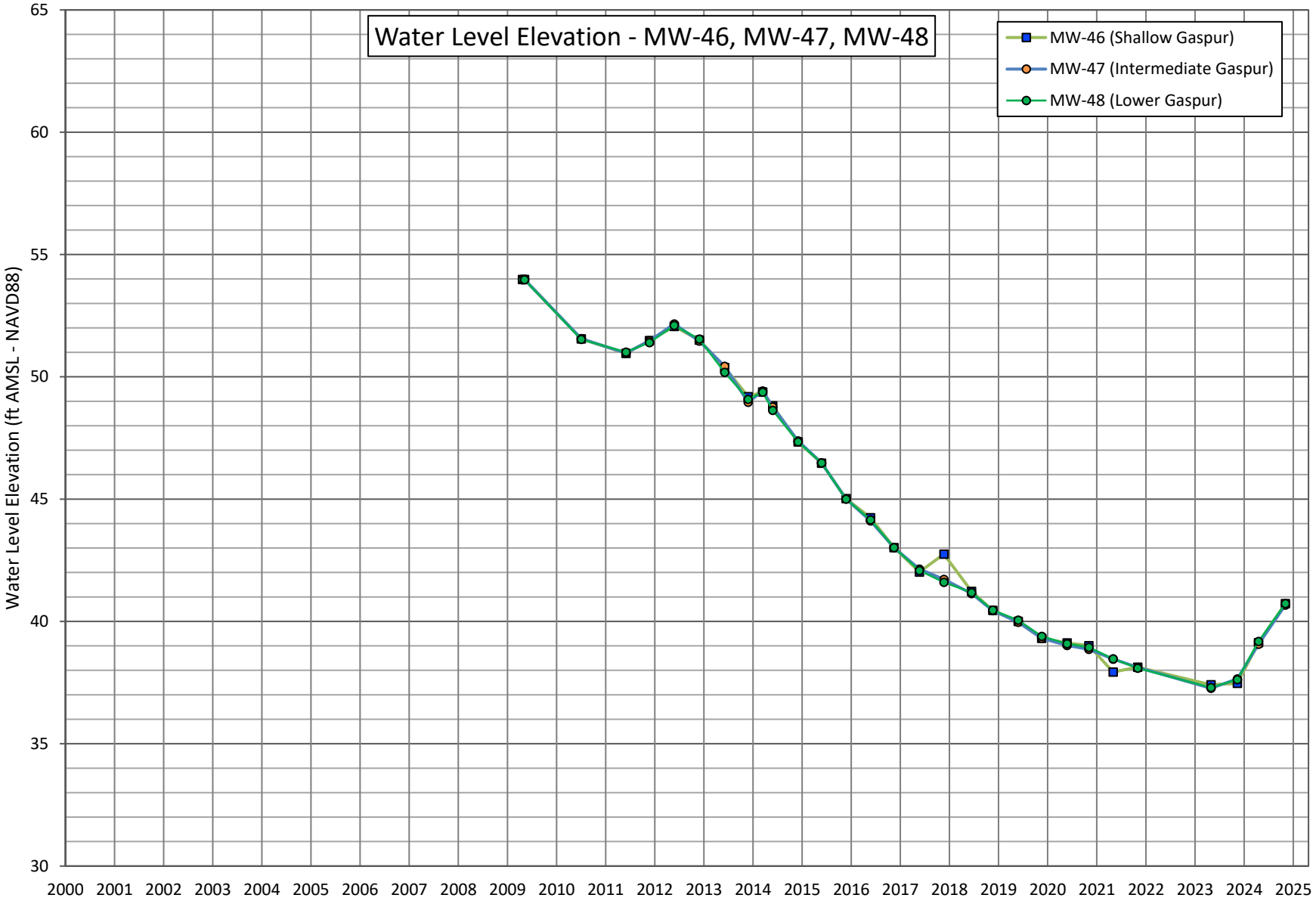

Water Level Elevation - MW-33A MW-33B
MW-33A (Shallow Gaspur)
MW-33B (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
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2019
2020
2021
2022
2023
2024
2025

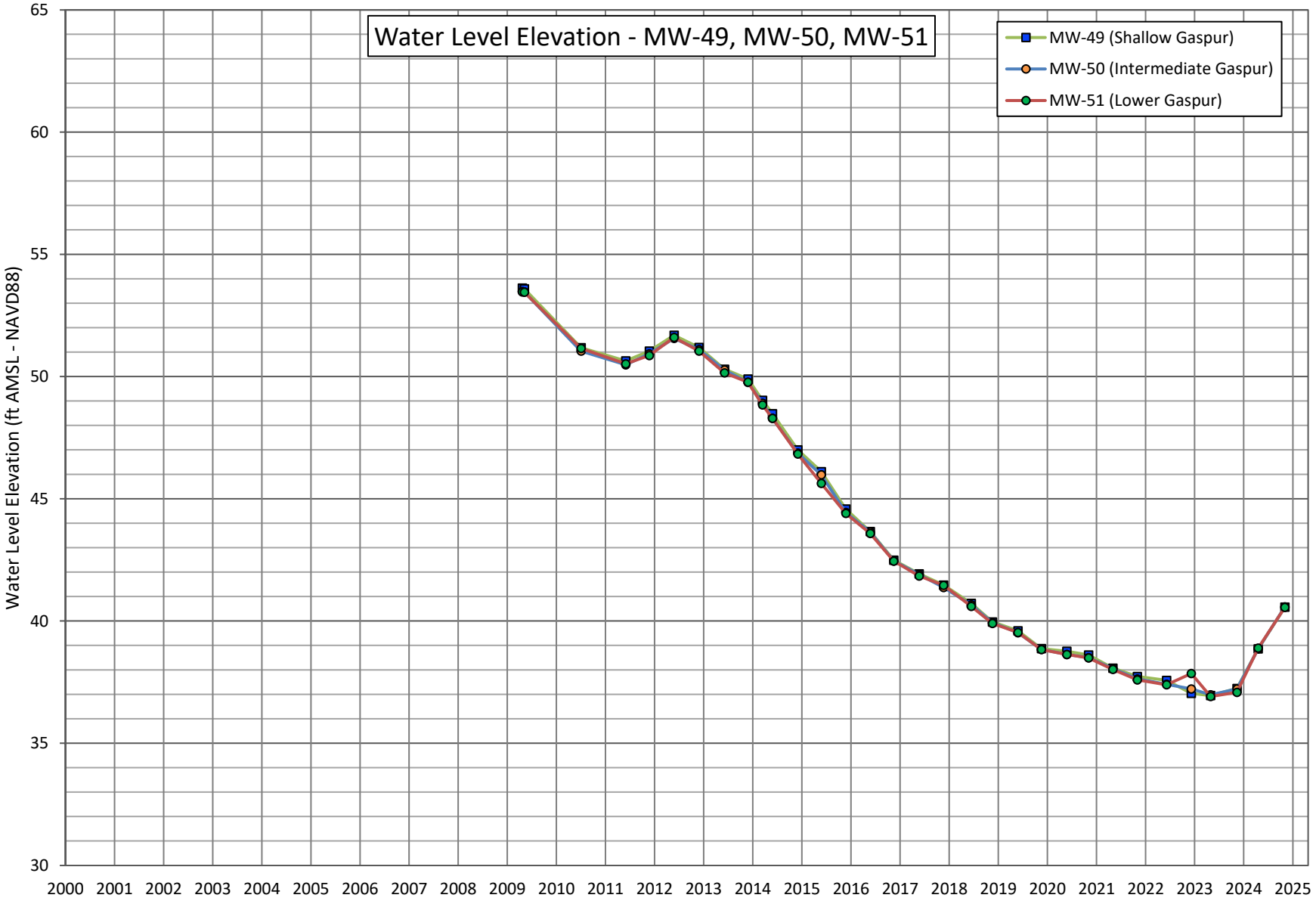

Water Level Elevation - MW-34, MW-35
MW-34 (Shallow Gaspur)
MW-35 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
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2022
2023
2024
2025

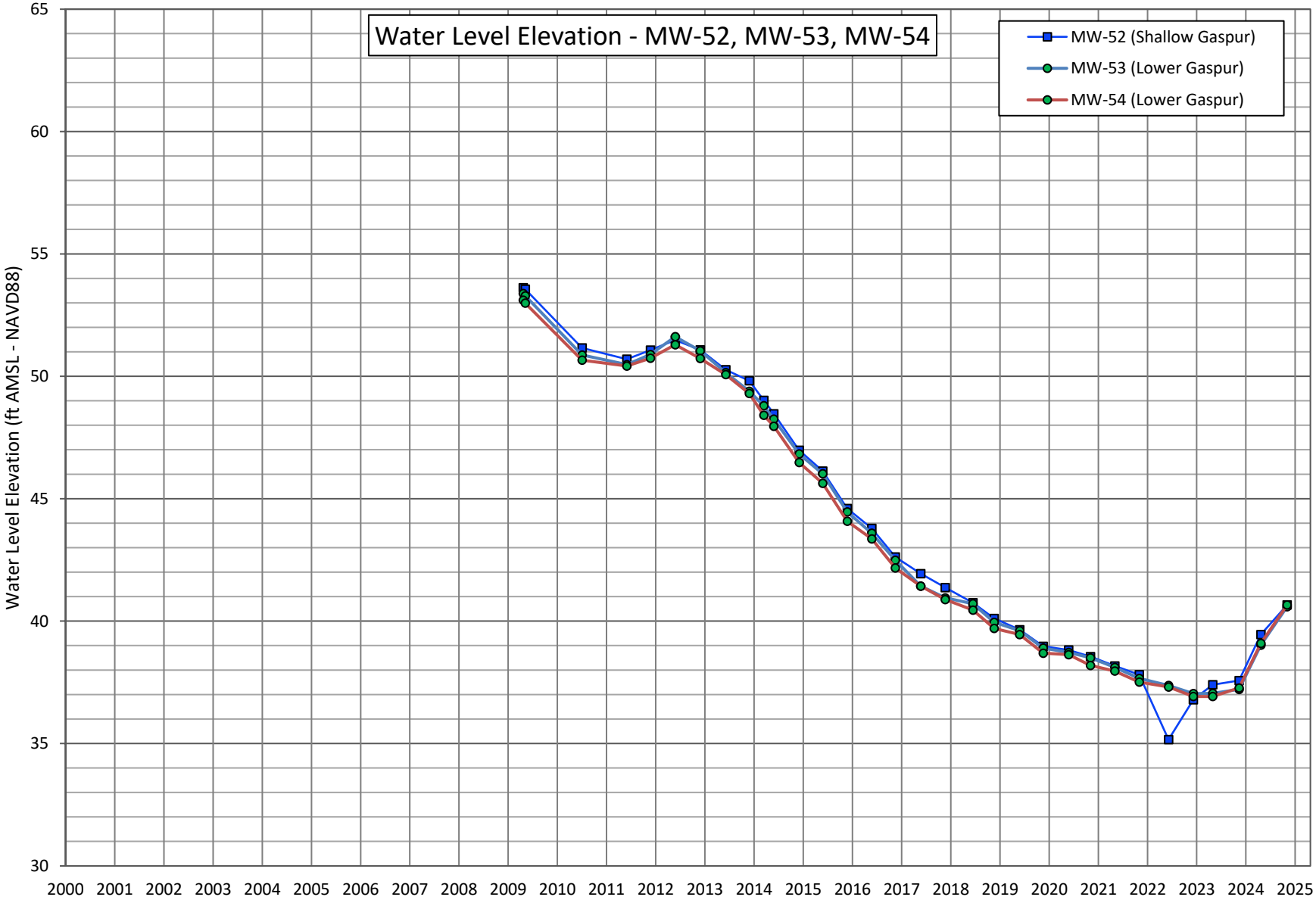

Water Level Elevation - MW-36, MW-37, MW-55
MW-36 (Intermediate Gaspur)
MW-37 (Lower Gaspur)
MW-55 (Exposition)
MW-55R (Exposition)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
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2022
2023
2024
2025

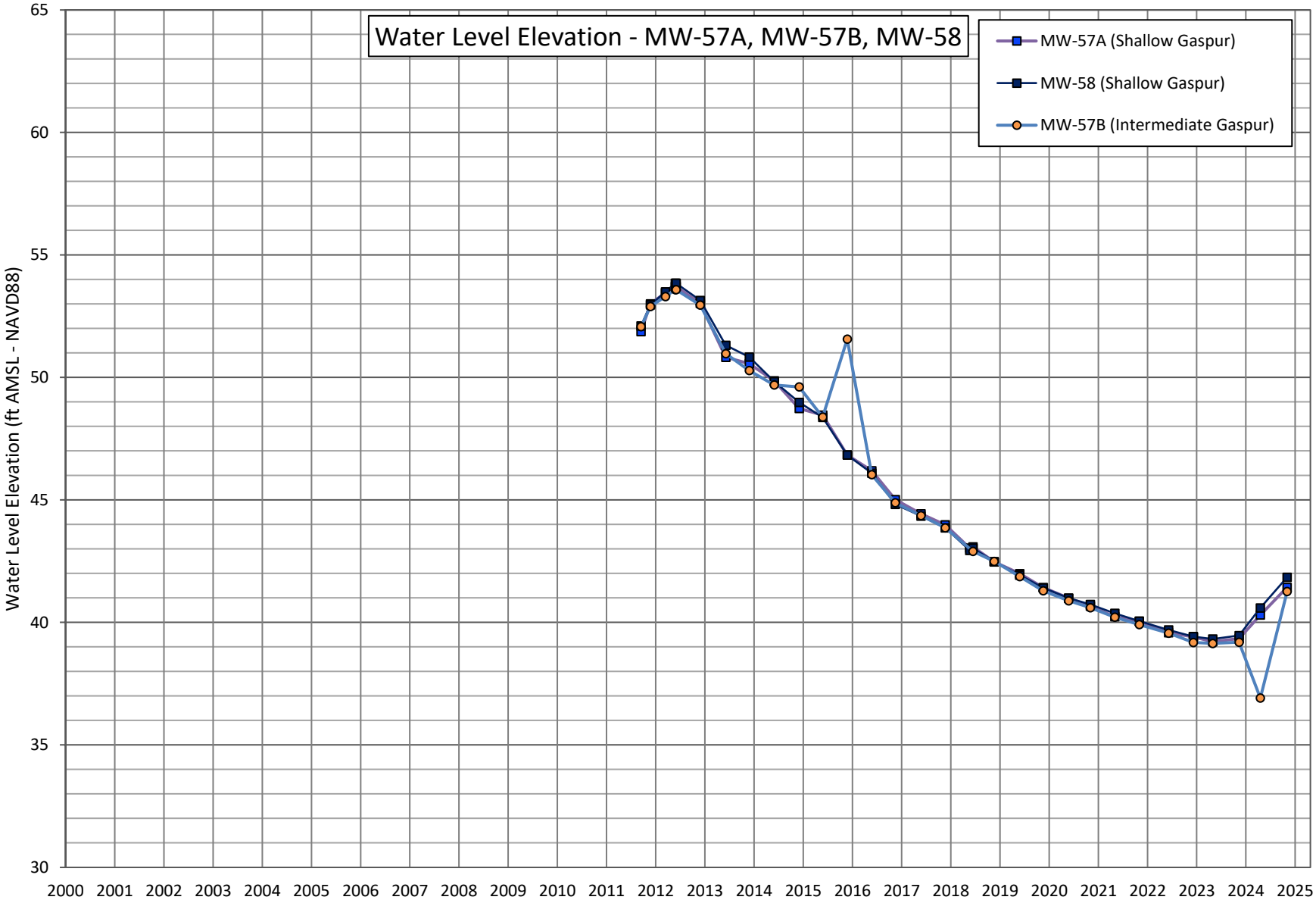

Water Level Elevation - MW-38, MW-39, MW-40
MW-38 (Shallow Gaspur)
MW-39 (Intermediate Gaspur)
MW-40 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
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2021
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2023
2024
2025

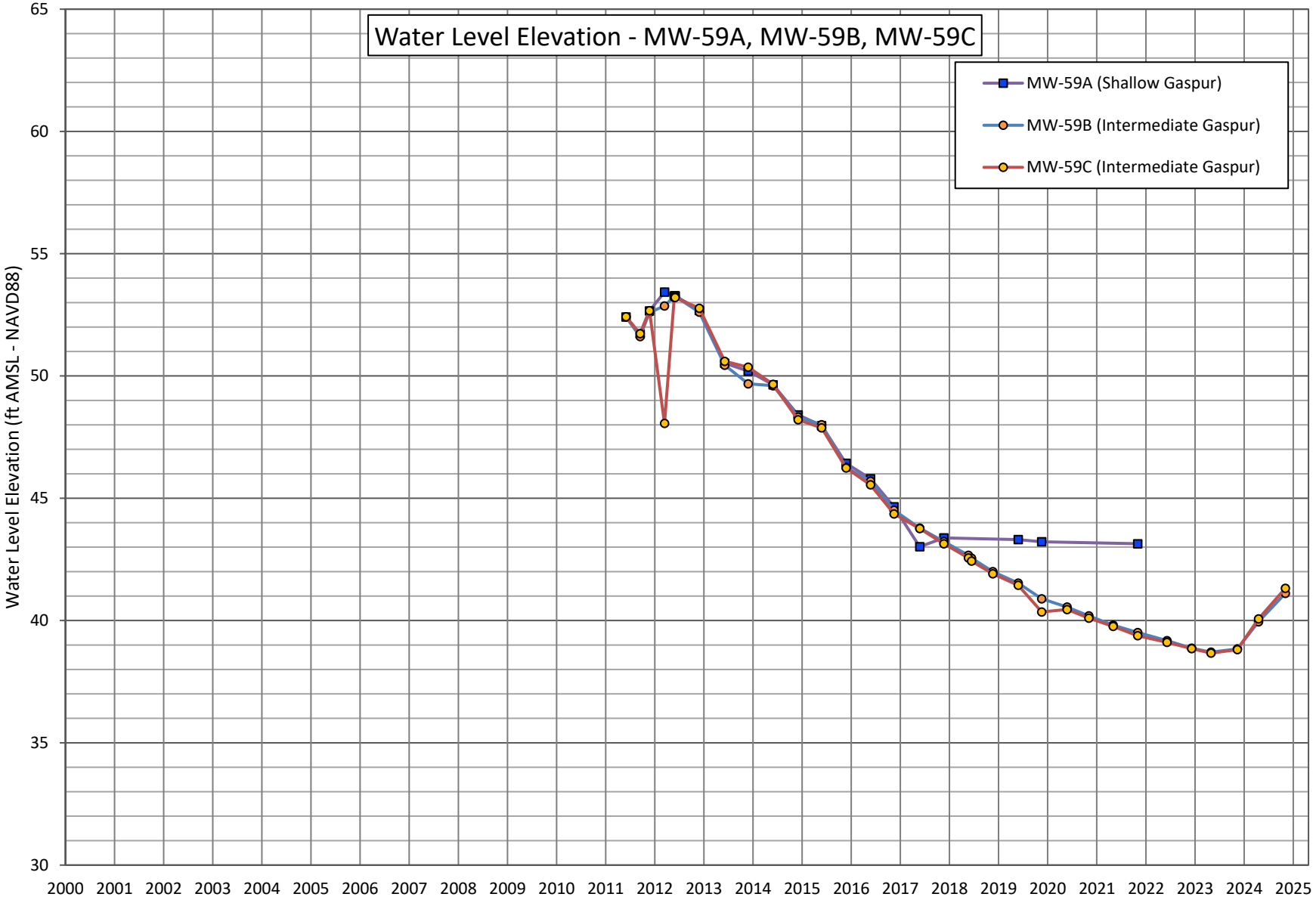

Water Level Elevation - MW-42, MW-43, MW-44
MW-42 (Shallow Gaspur)
MW-43 (Intermediate Gaspur)
MW-44 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
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2011
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2019
2020
2021
2022
2023
2024
2025

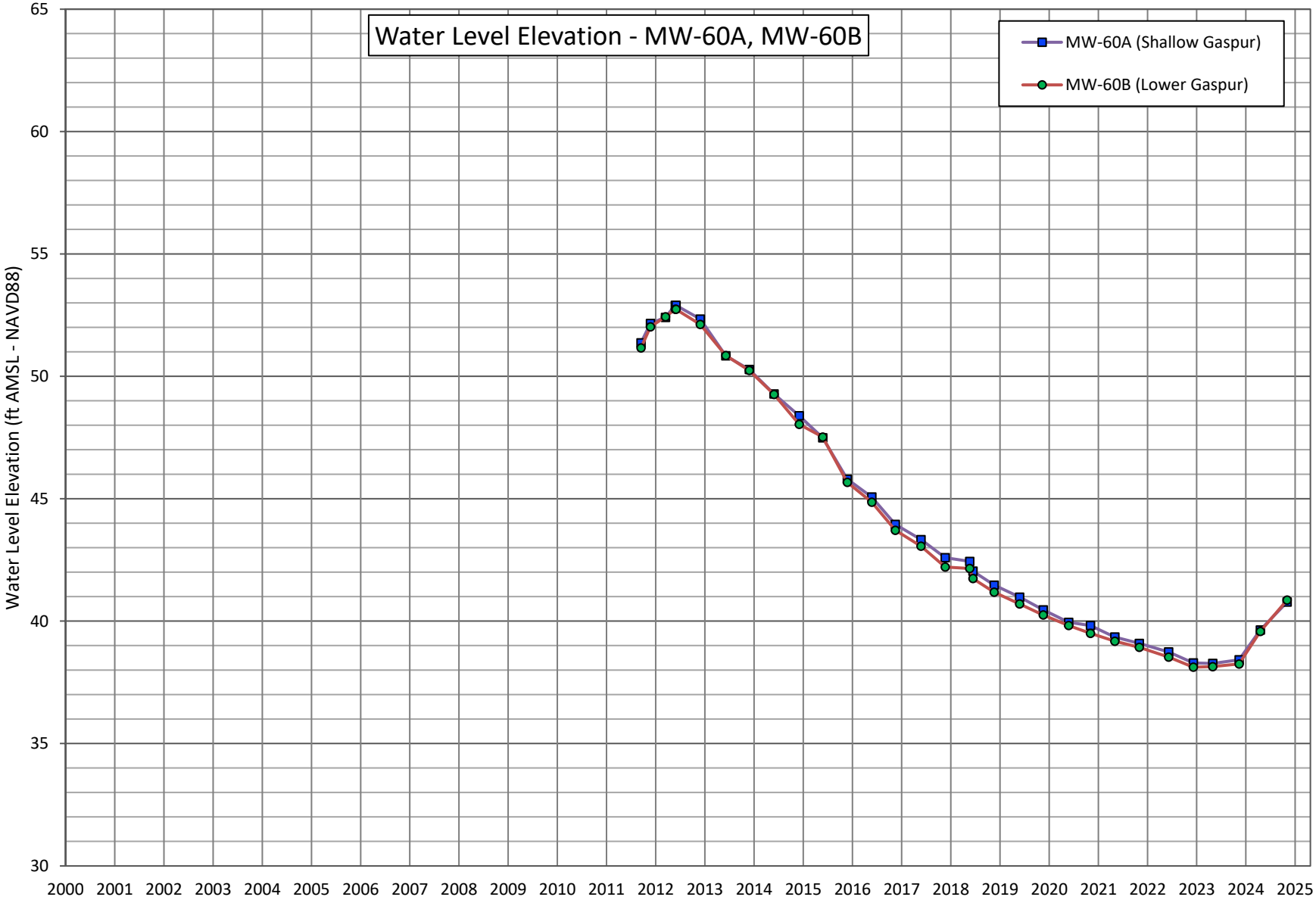

Water Level Elevation - MW-46, MW-47, MW-48
MW-46 (Shallow Gaspur)
MW-47 (Intermediate Gaspur)
MW-48 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2011
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2018
2019
2020
2021
2022
2023
2024
2025

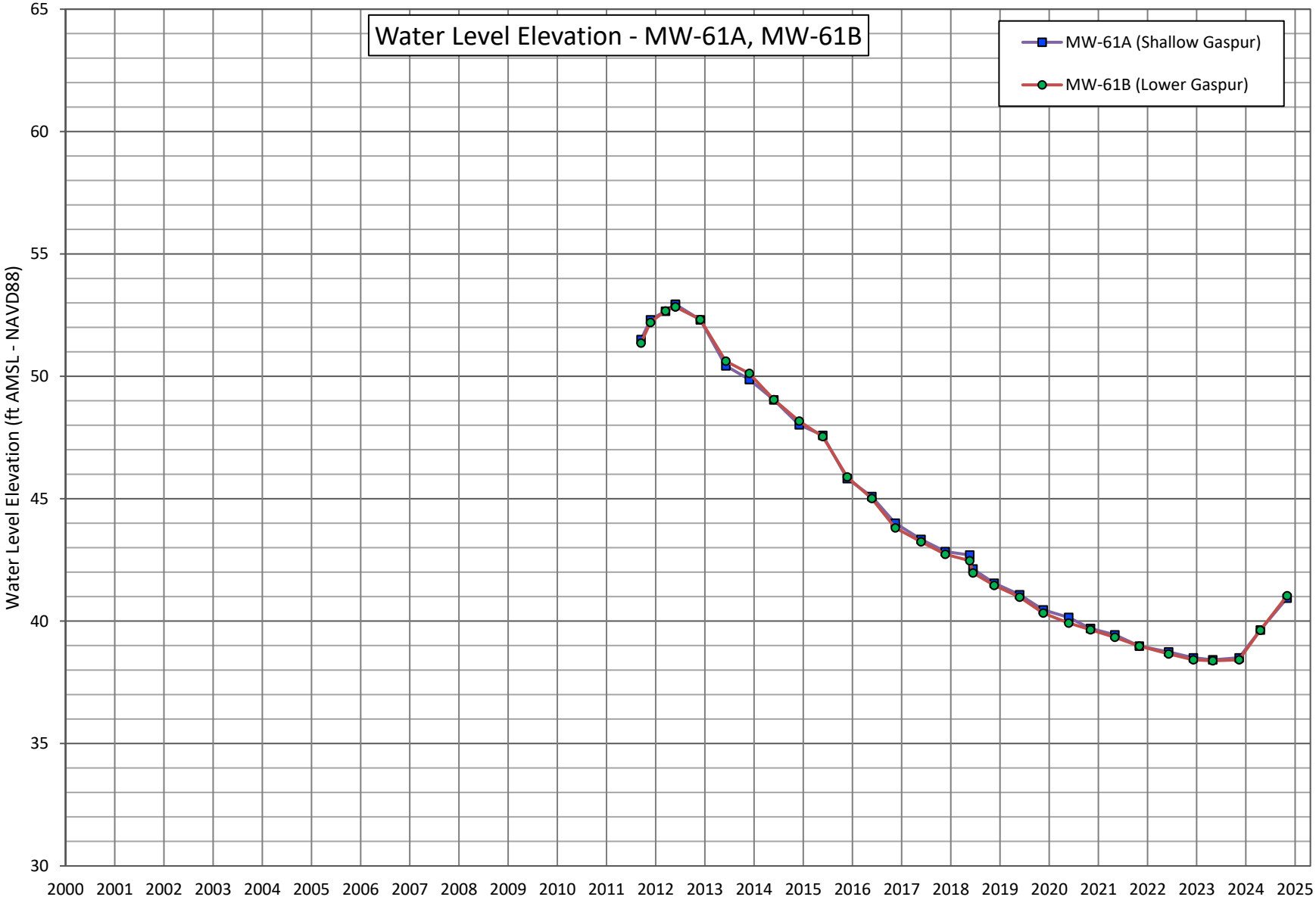

Water Level Elevation - MW-49, MW-50, MW-51
MW-49 (Shallow Gaspur)
MW-50 (Intermediate Gaspur)
MW-51 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
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2020
2021
2022
2023
2024
2025

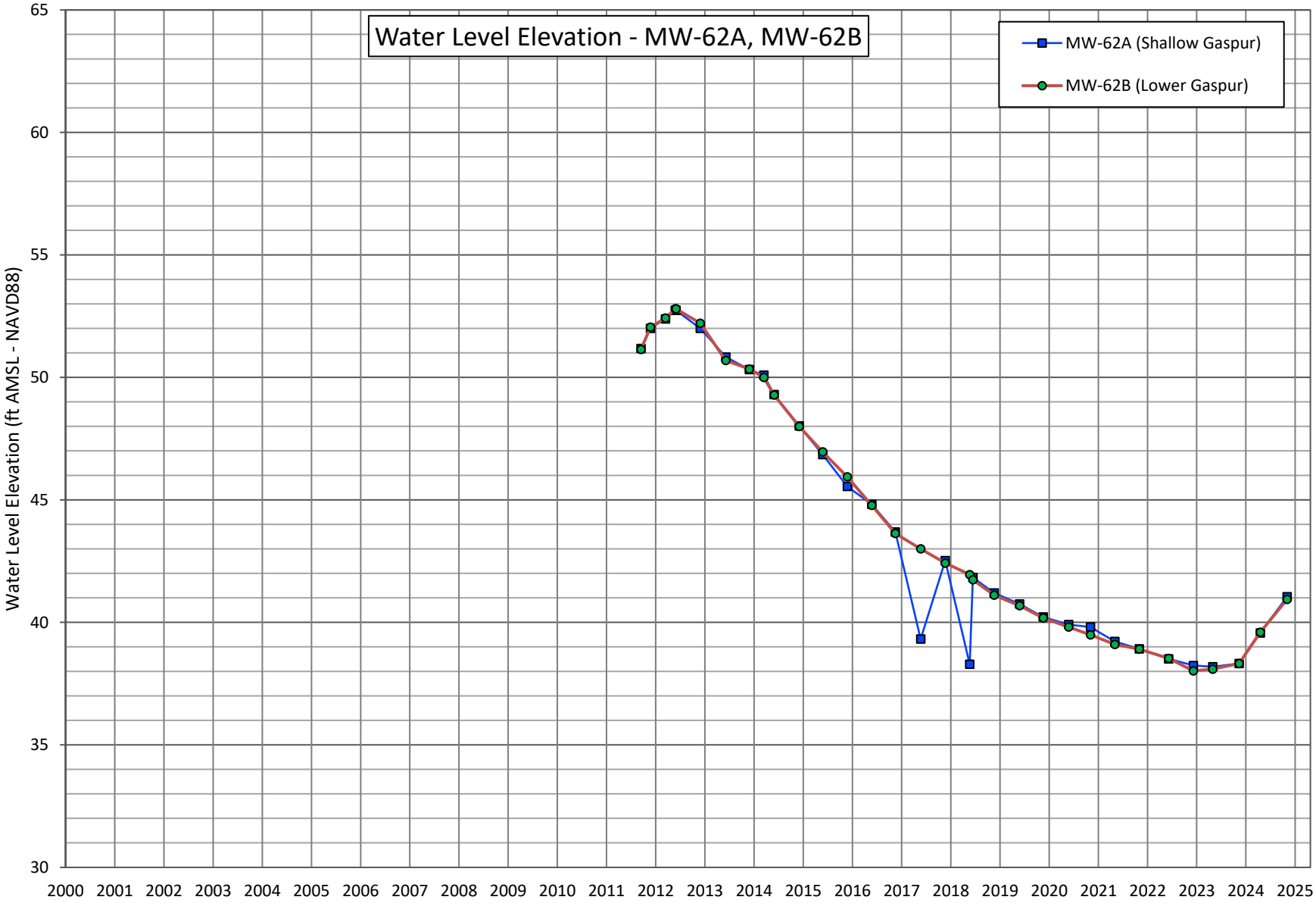

Water Level Elevation - MW-52, MW-53, MW-54
MW-52 (Shallow Gaspur)
MW-53 (Lower Gaspur)
MW-54 (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
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2011
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2020
2021
2022
2023
2024
2025

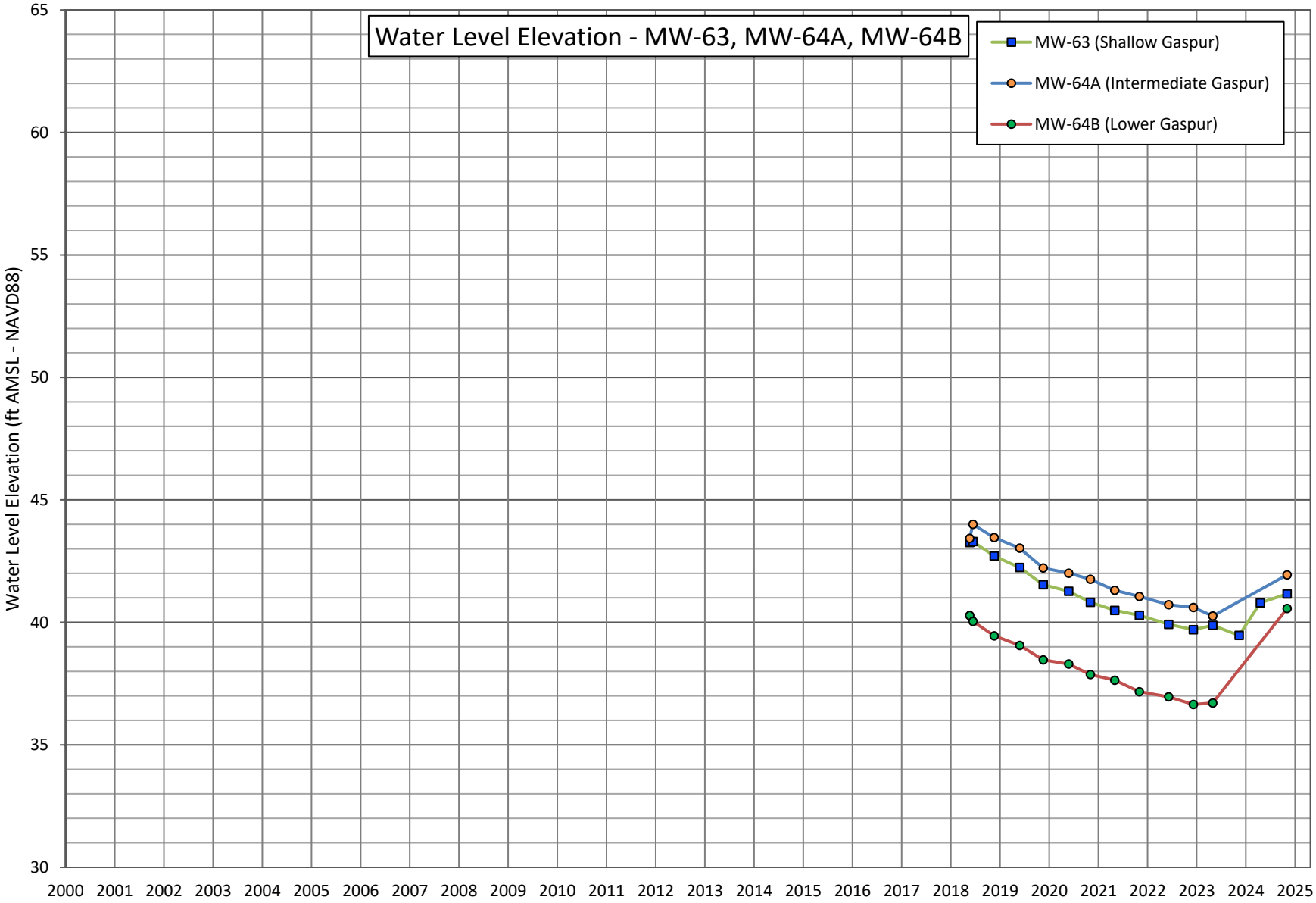

Water Level Elevation - MW-57A, MW-57B, MW-58
MW-57A (Shallow Gaspur)
MW-58 (Shallow Gaspur)
MW-57B (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2013
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2021
2022
2023
2024
2025

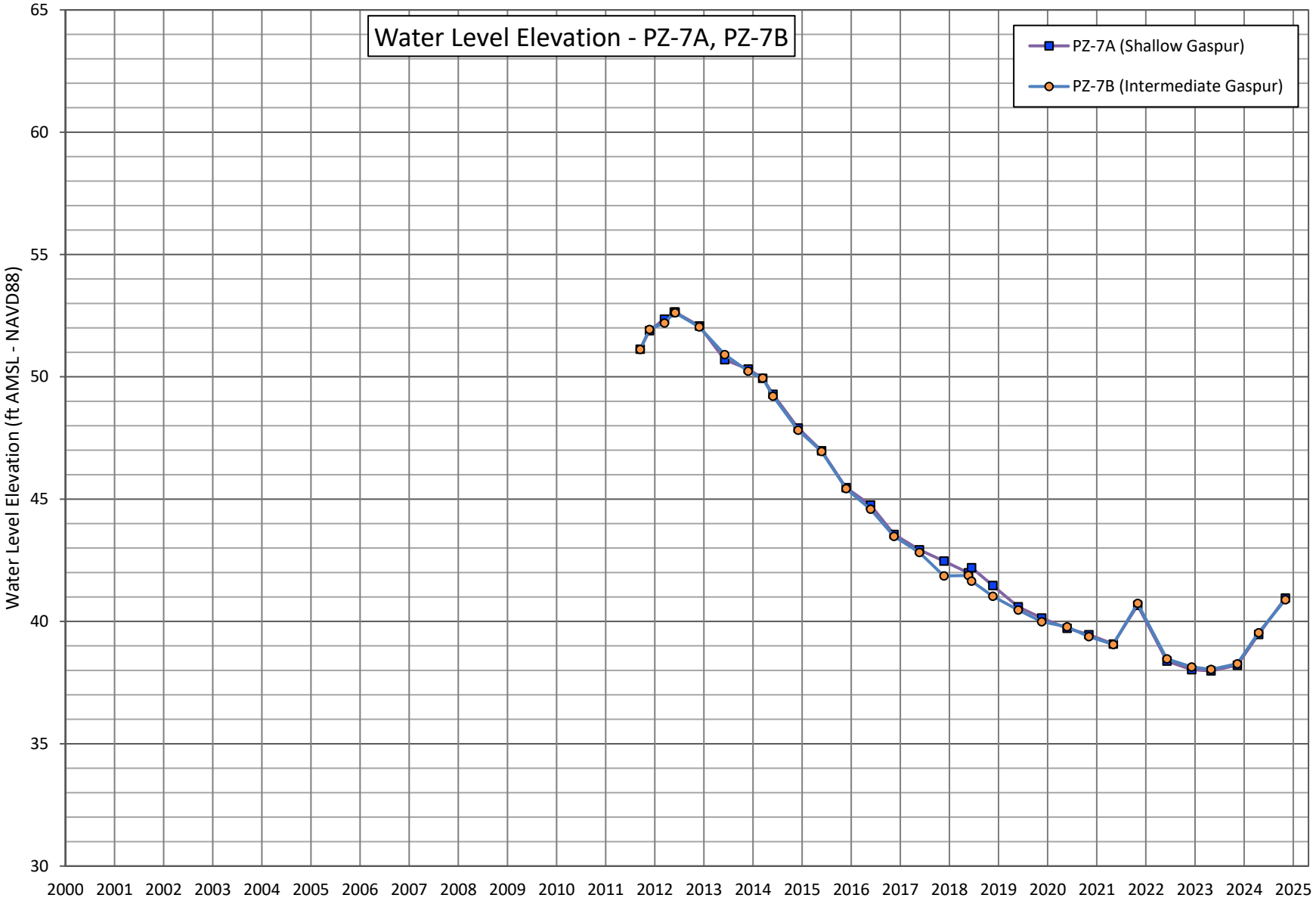

Water Level Elevation - MW-59A, MW-59B, MW-59C
MW-59A (Shallow Gaspur)
MW-59B (Intermediate Gaspur)
MW-59C (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025


Water Level Elevation - MW-60A, MW-60B
MW-60A (Shallow Gaspur)
MW-60B (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
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2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

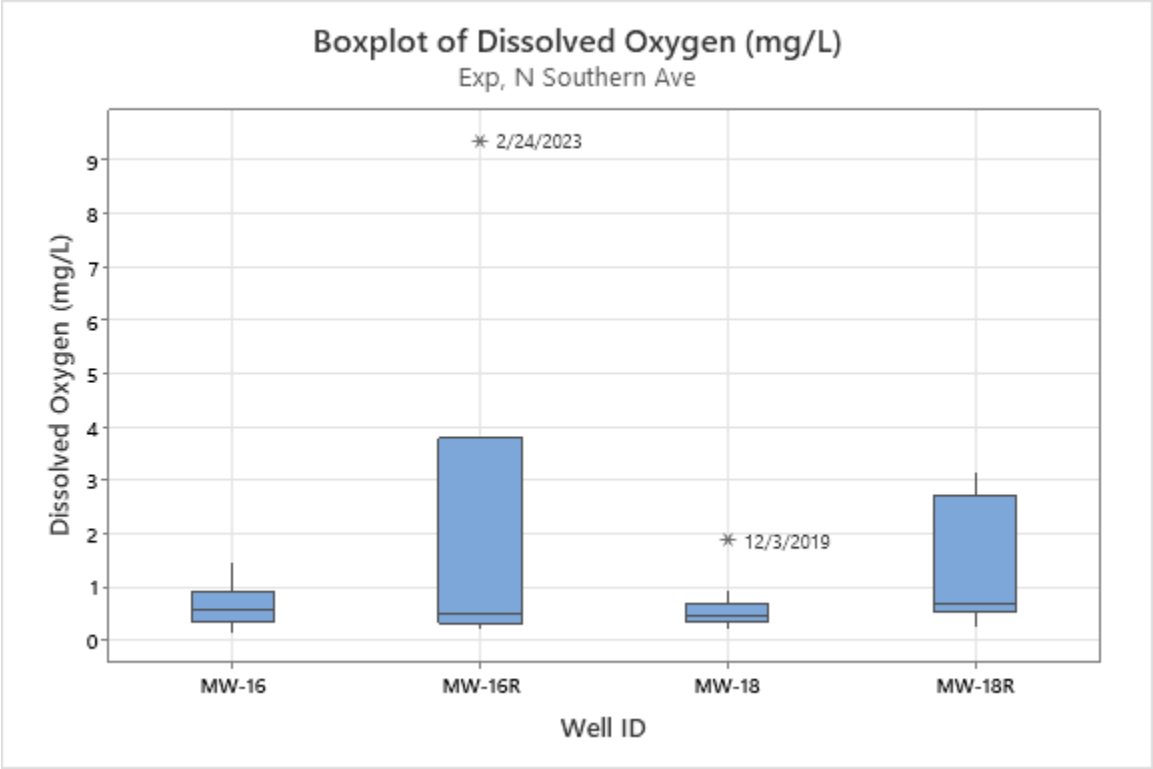

Water Level Elevation - MW-61A, MW-61B
MW-61A (Shallow Gaspur)
MW-61B (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
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2013
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2019
2020
2021
2022
2023
2024
2025

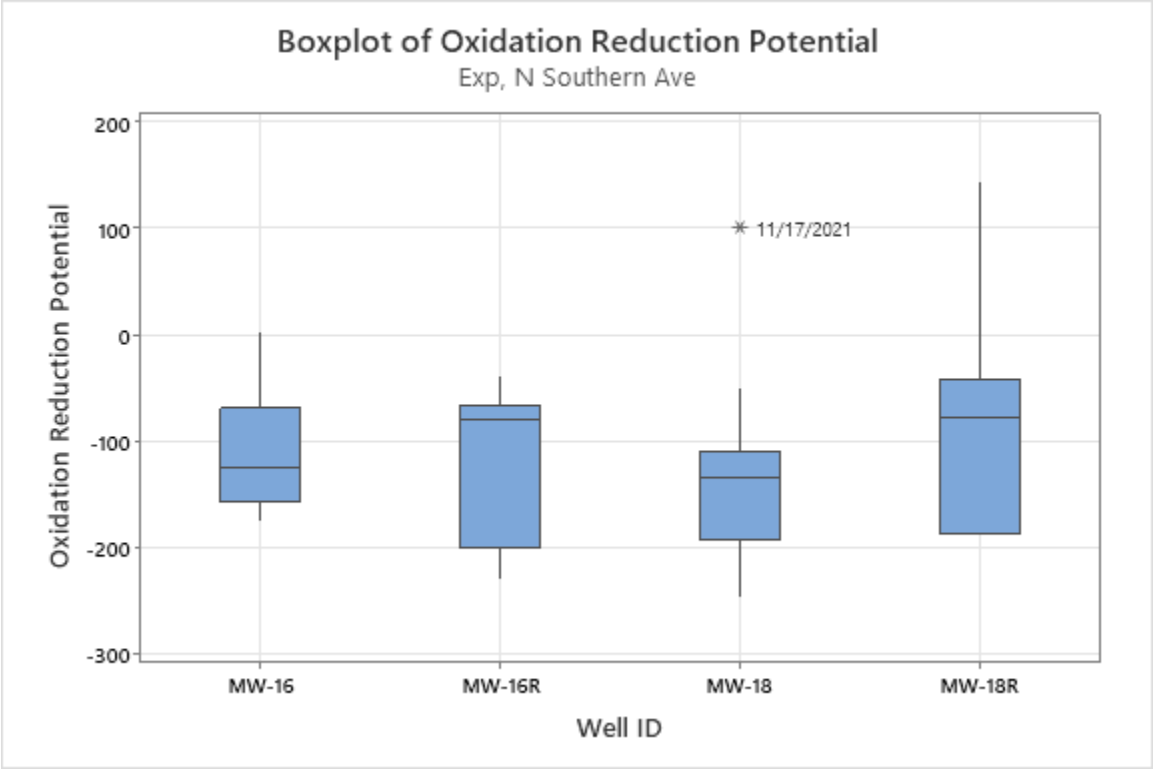

Water Level Elevation - MW-62A, MW-62B
MW-62A (Shallow Gaspur)
MW-62B (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

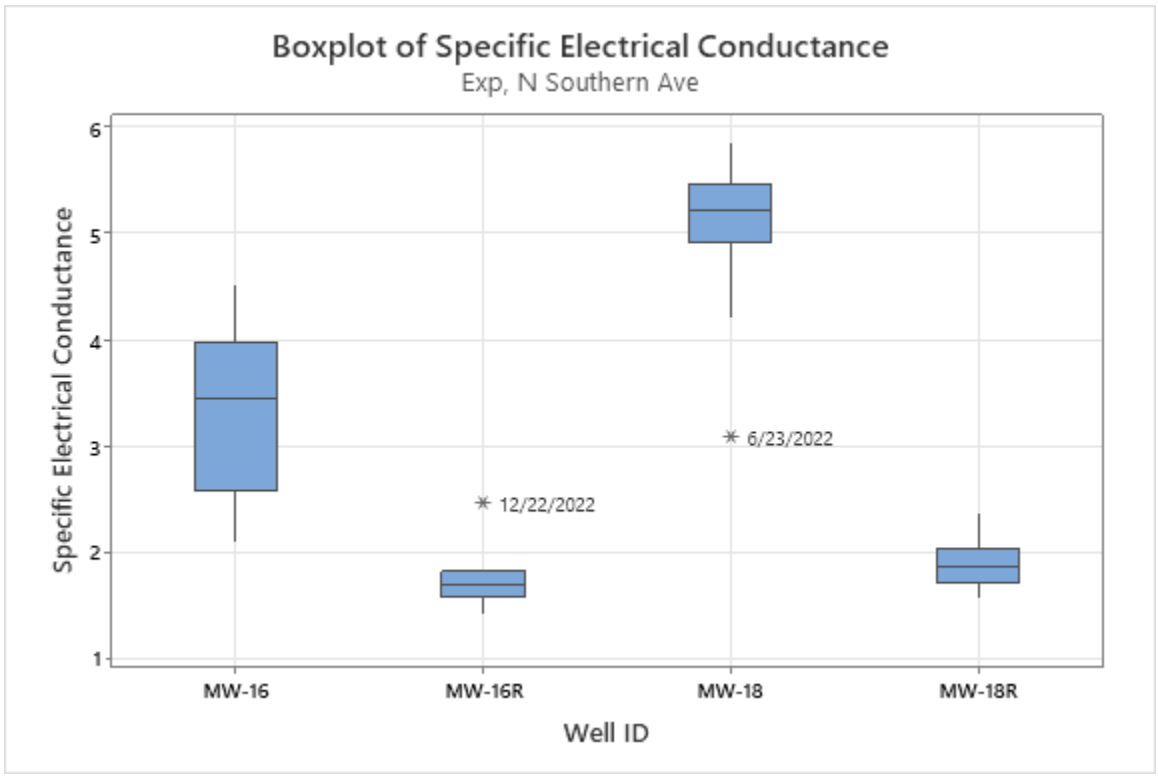

Water Level Elevation - MW-63, MW-64A, MW-64B
MW-63 (Shallow Gaspur)
MW-64A (Intermediate Gaspur)
MW-64B (Lower Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

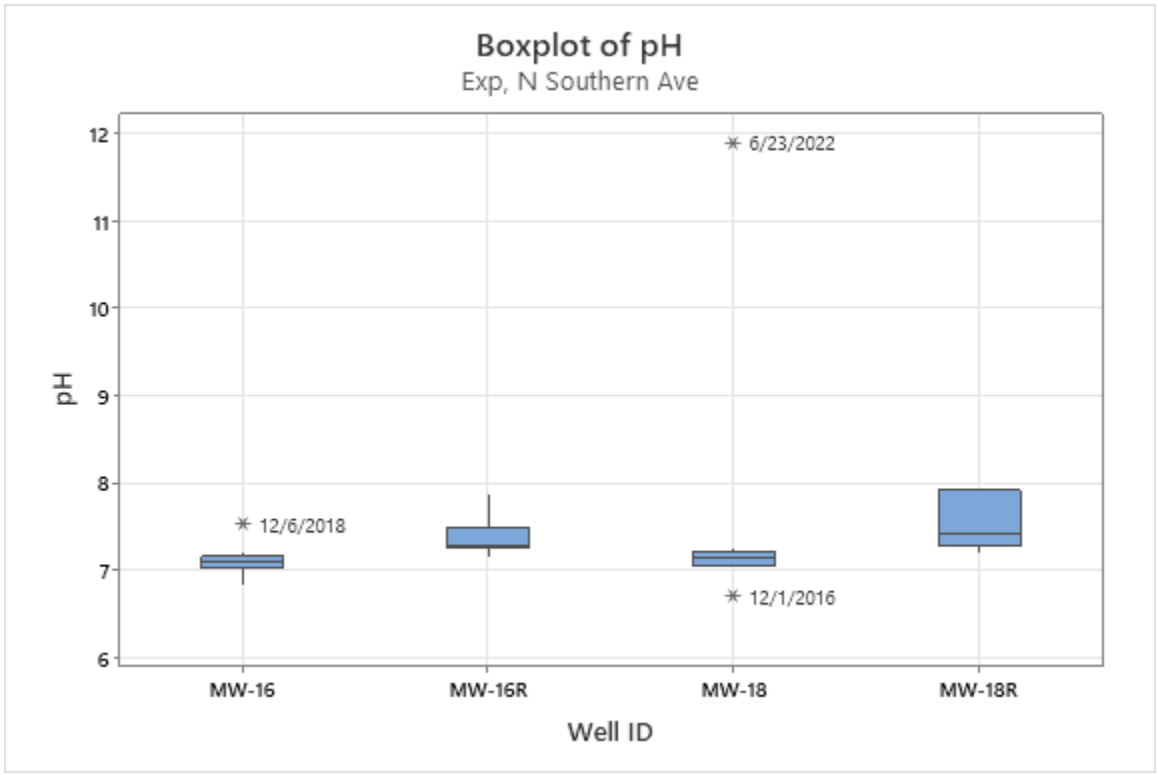

Water Level Elevation - PZ-7A, PZ-7B
PZ-7A (Shallow Gaspur)
PZ-7B (Intermediate Gaspur)
Water Level Elevation (ft AMSL - NAVD88)
65
60
55
50
45
40
35
30
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

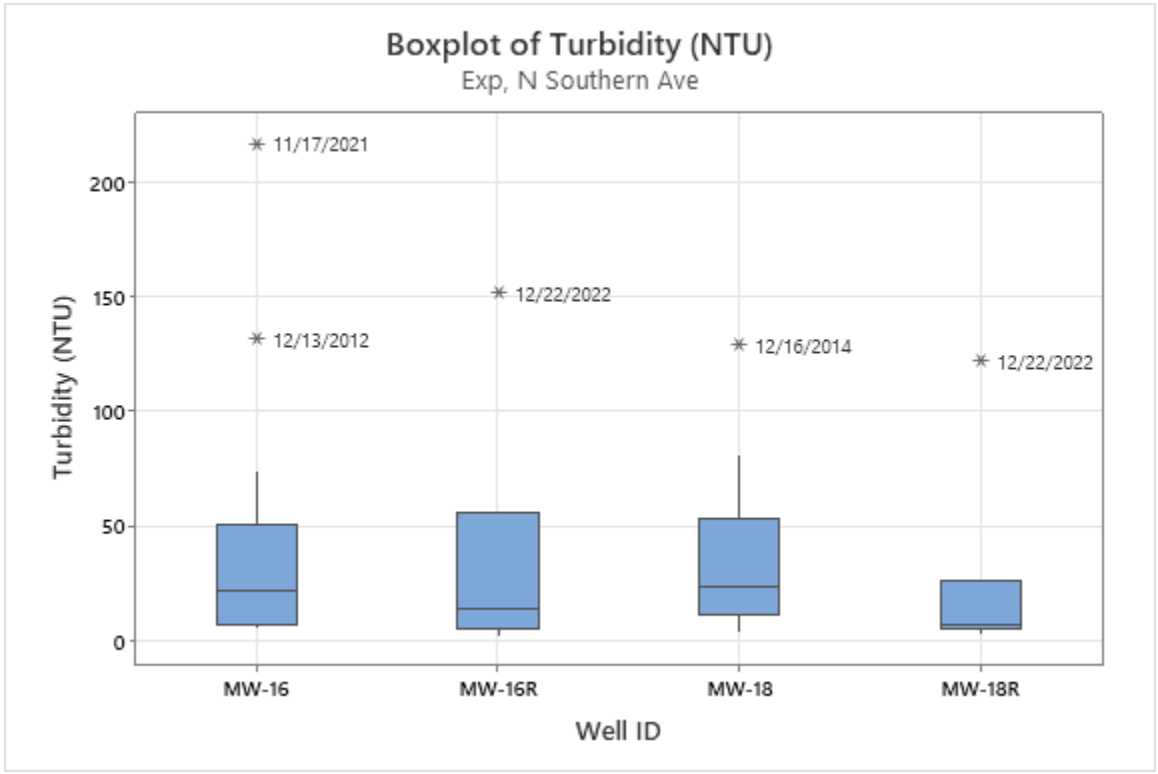
APPENDIX D
Water Quality Field Parameter Plots

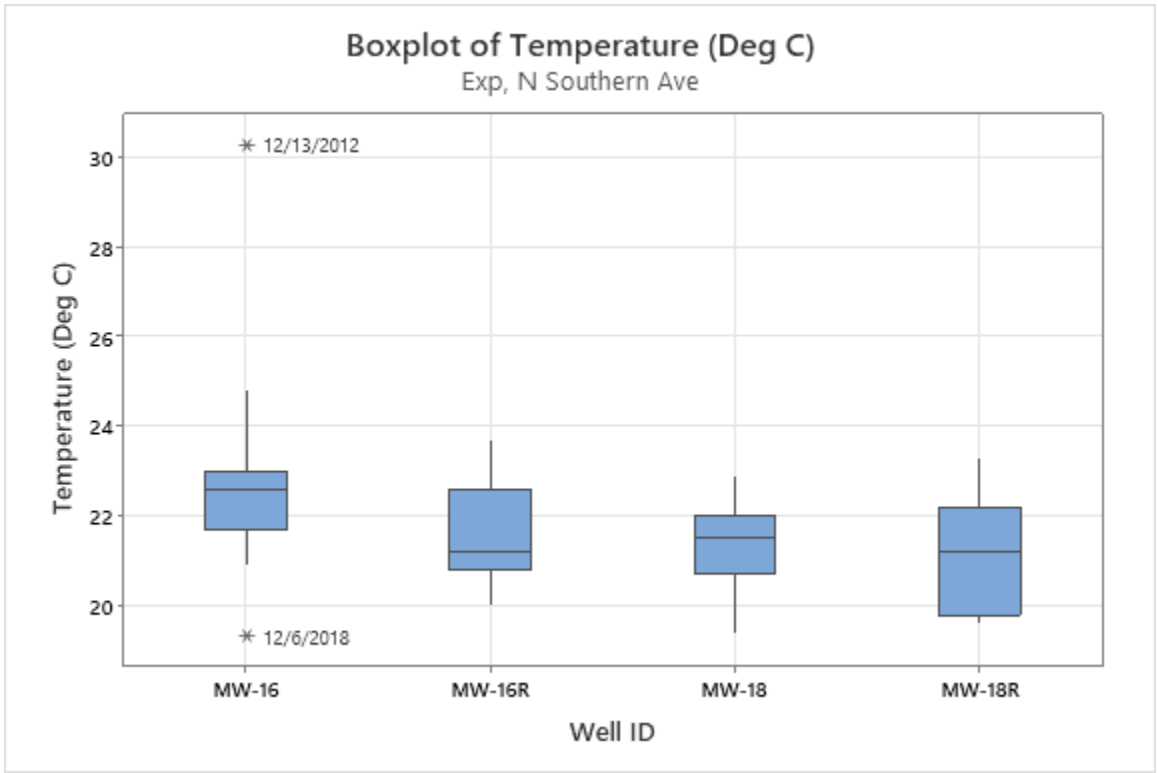

Boxplot of Dissolved Oxygen (mg/L)
Exp, N Southern Ave
Dissolved Oxygen (mg/L)
2/24/2023
12/3/2019
MW-16
MW-16R
MW-18
MW-18R
Well ID

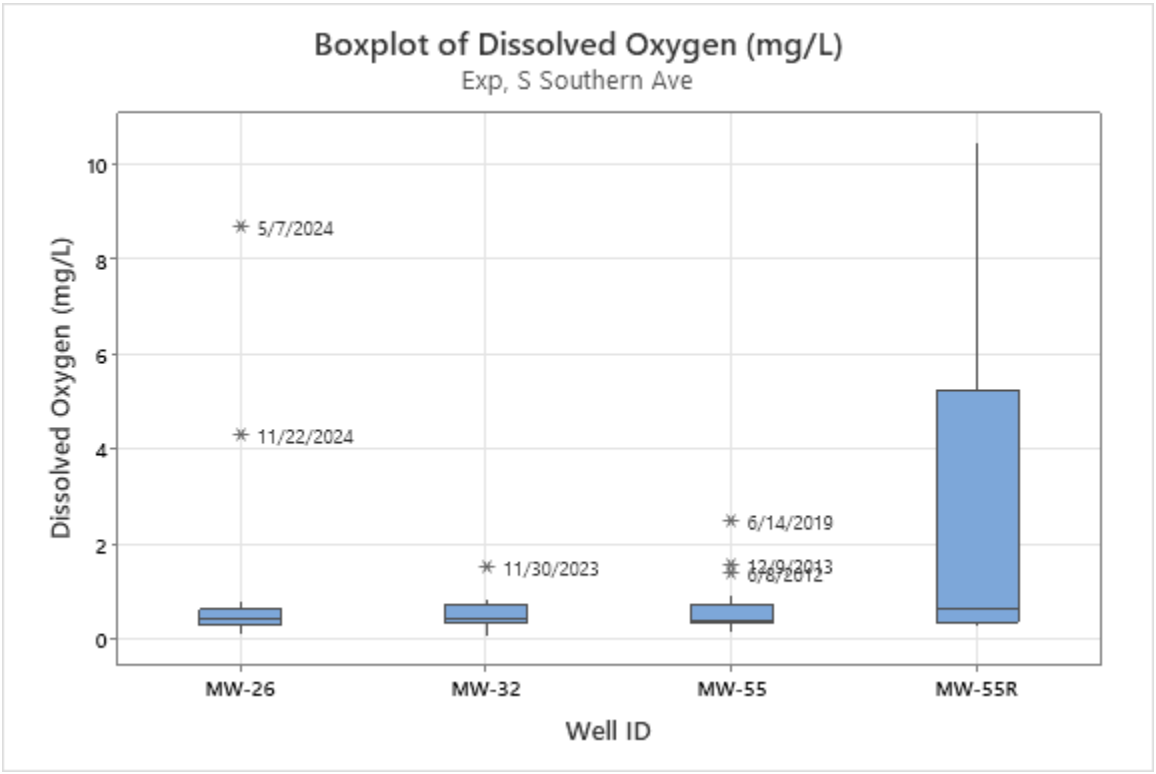

Boxplot of Oxidation Reduction Potential
Exp, N Southern Ave
Oxidation Reduction Potential
11/17/2021
MW-16
MW-16R
MW-18
MW-18R
Well ID

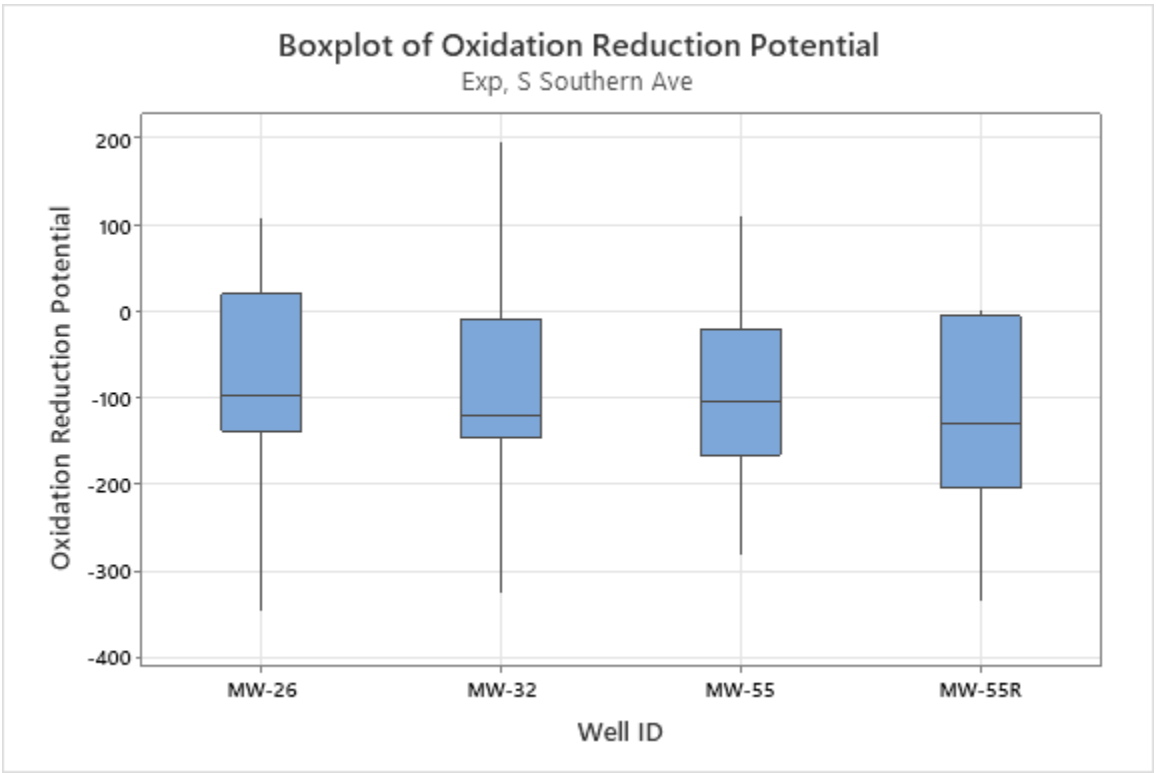

Boxplot of Specific Electrical Conductance
Exp, N Southern Ave
Specific Electrical Conductance
6
5
4
3
2
1
12/22/2022
6/23/2022
MW-16
MW-16R
MW-18
MW-18R
Well ID

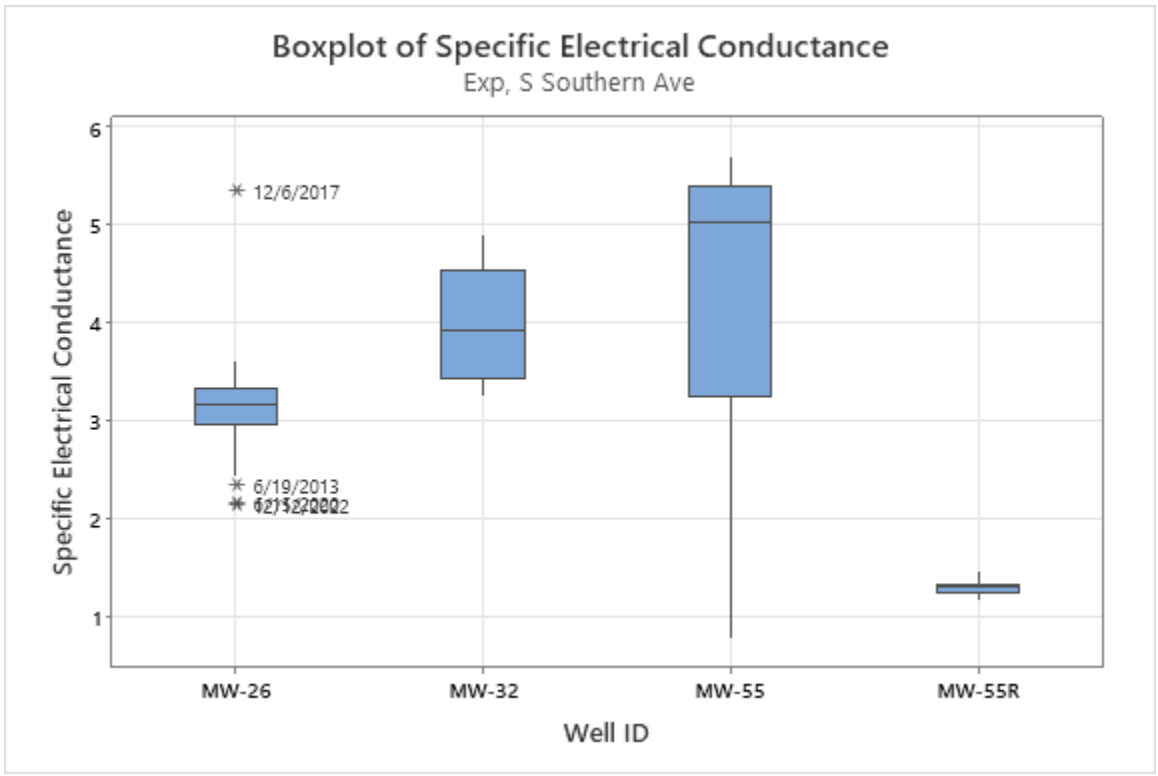

Boxplot of pH
Exp, N Southern Ave
pH
12
11
10
9
8
7
6
6/23/2022
12/6/2018
12/1/2016
MW-16
MW-16R
MW-18
MW-18R
Well ID

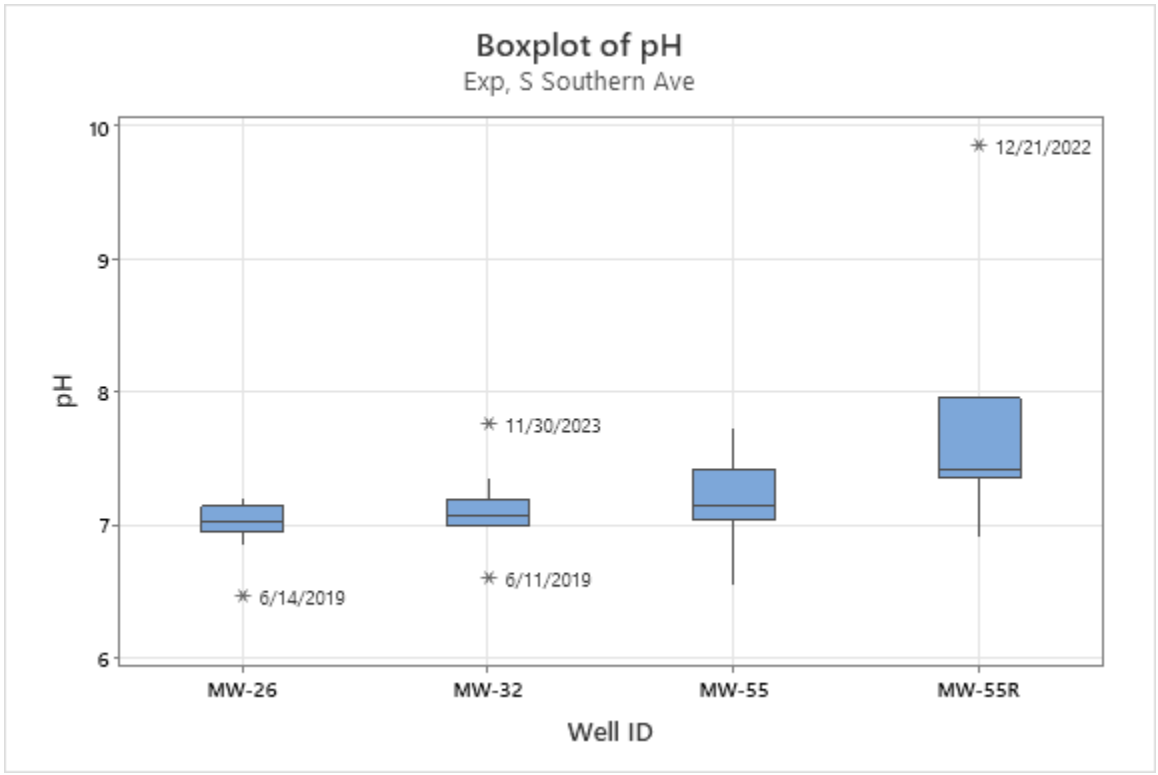

Boxplot of Turbidity (NTU)
Exp, N Southern Ave
11/17/2021
12/22/2022
12/13/2012
12/16/2014
12/22/2022
Turbidity (NTU)
200
150
100
50
0
MW-16
MW-16R
MW-18
MW-18R
Well ID

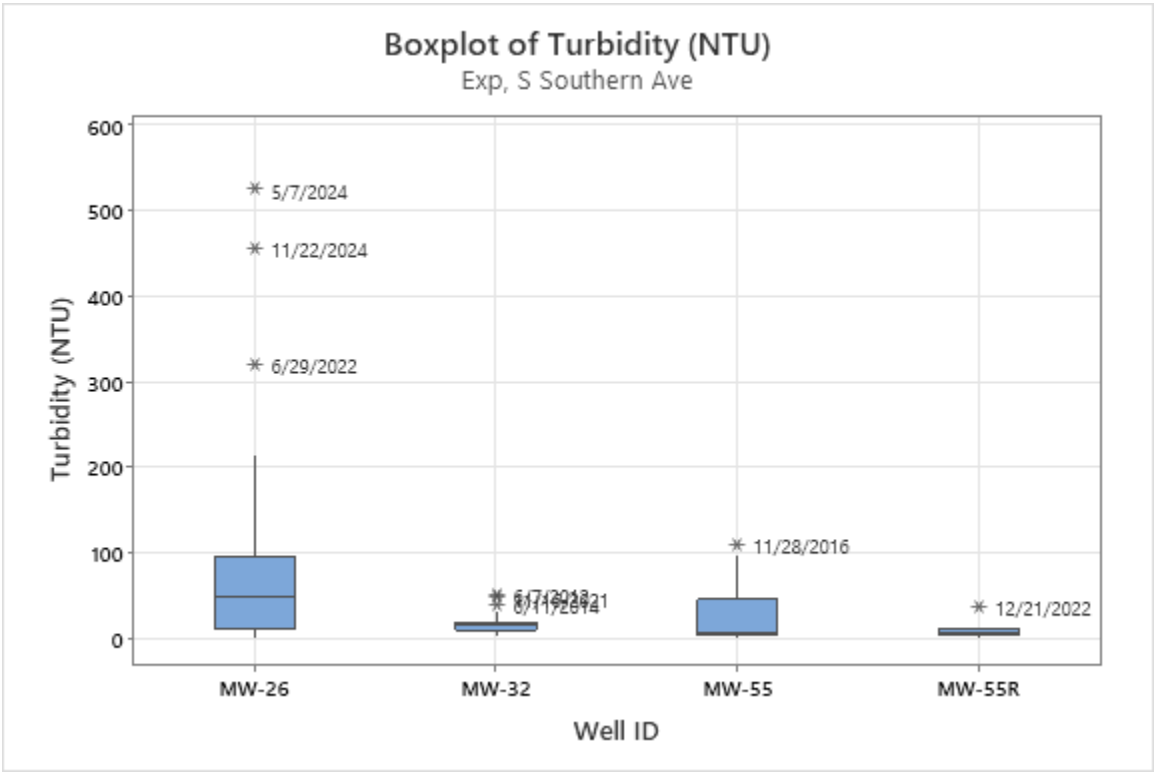

Boxplot of Temperature (Deg C)
Exp, N Southern Ave
12/13/2012
12/6/2018
Temperature (Deg C)
30
28
26
24
22
20
MW-16
MW-16R
MW-18
MW-18R
Well ID

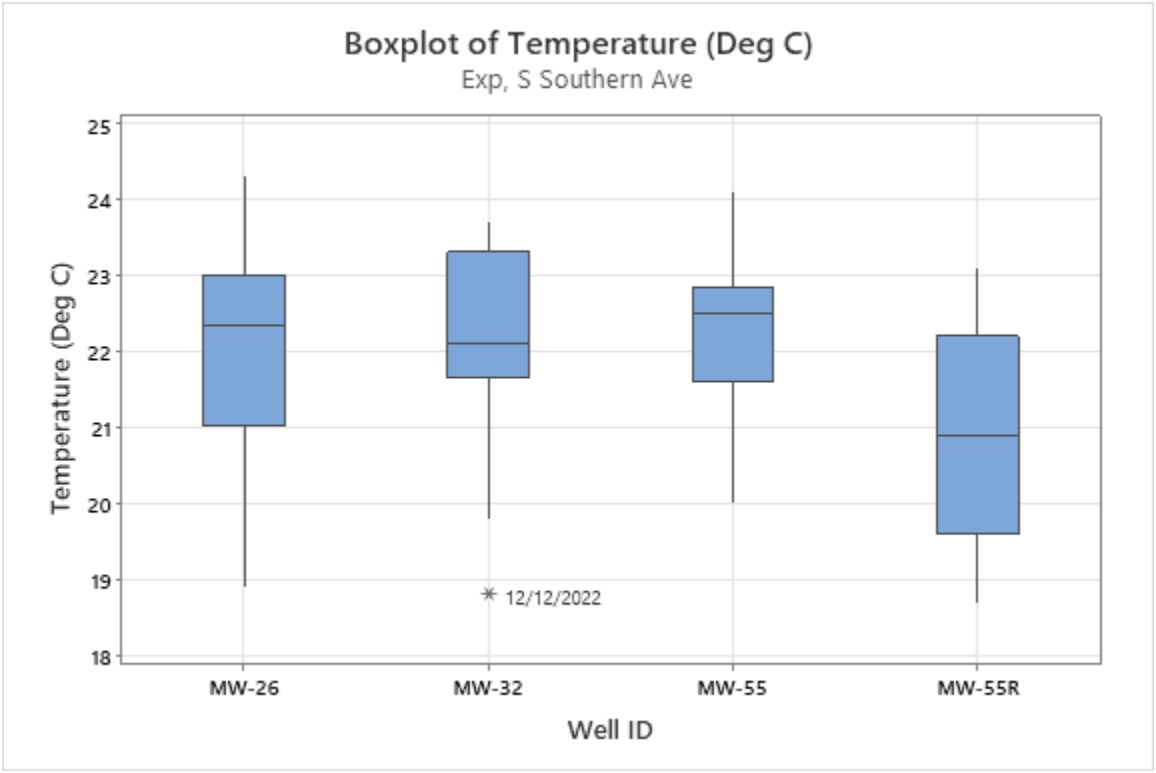

Boxplot of Dissolved Oxygen (mg/L)
Exp, S Southern Ave
Dissolved Oxygen (mg/L)
10
8
6
4
2
0
5/7/2024
11/22/2024
11/30/2023
6/14/2019
12/9/2013
6/8/2012
MW-26
MW-32
MW-55
MW-55R
Well ID

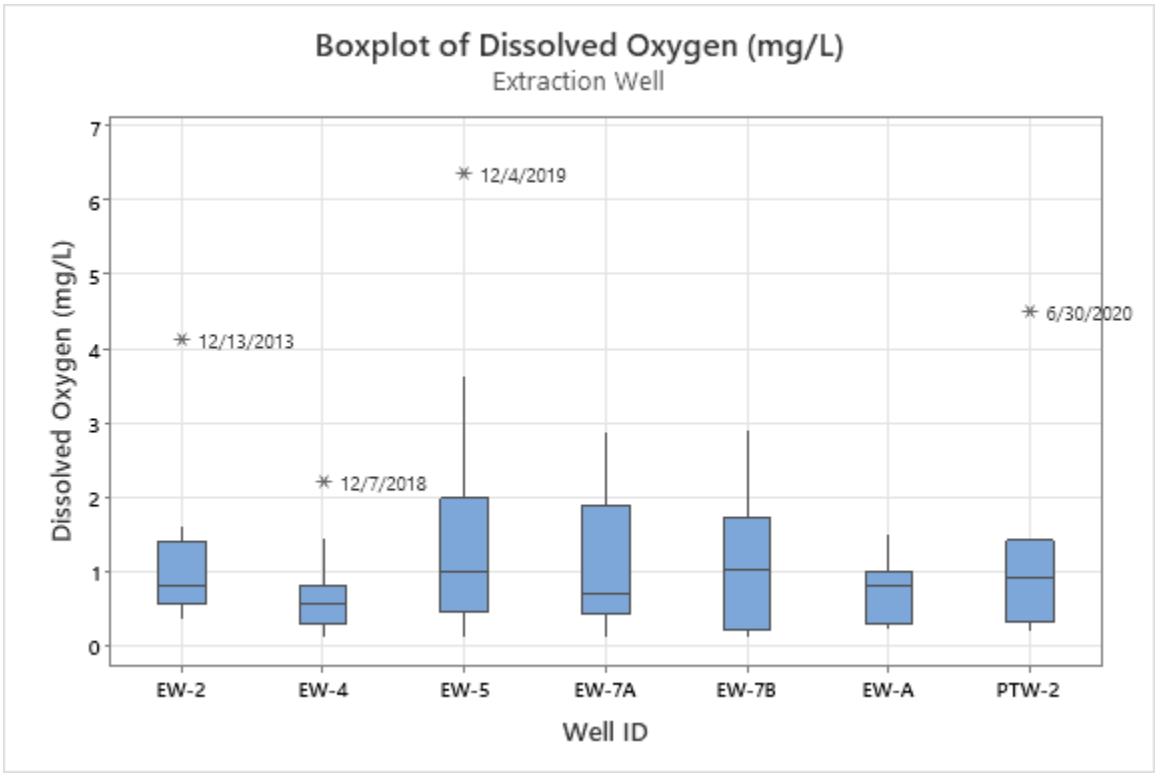

Boxplot of Oxidation Reduction Potential
Exp, S Southern Ave
Oxidation Reduction Potential
200
100
0
-100
-200
-300
-400
MW-26
MW-32
MW-55
MW-55R
Well ID

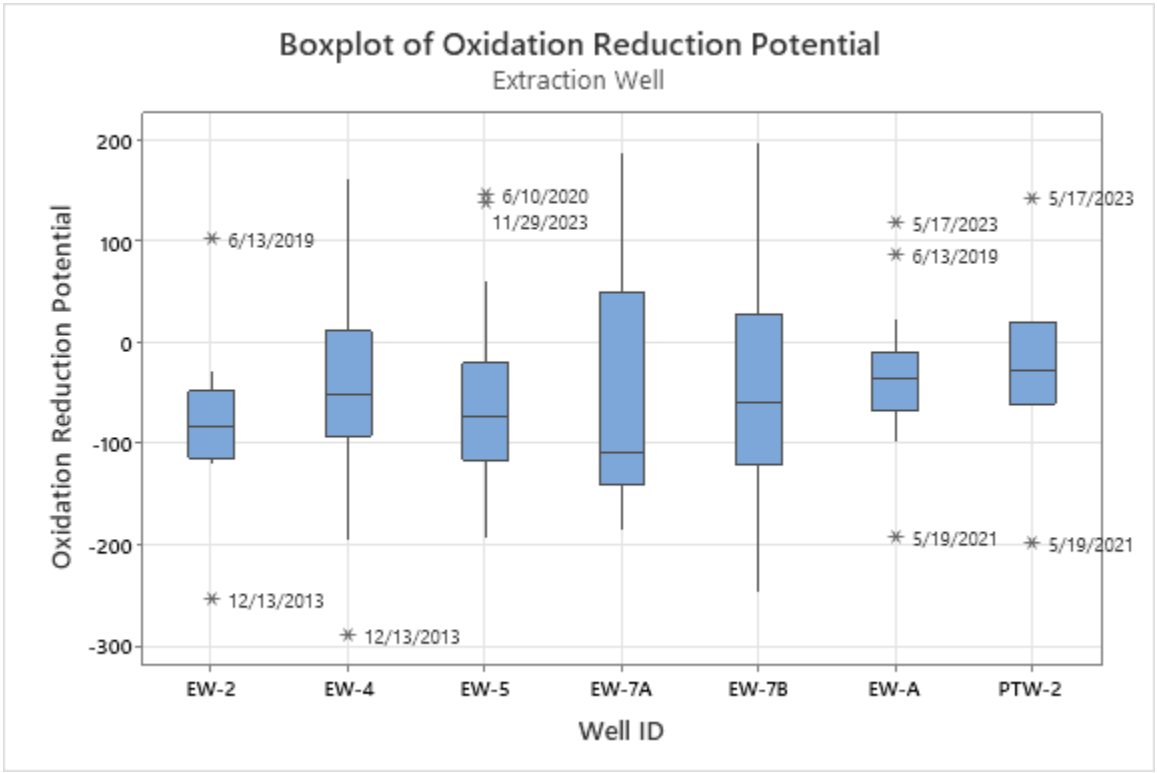

Boxplot of Specific Electrical Conductance
Exp, S Southern Ave
Specific Electrical Conductance
6
5
4
3
2
1
12/6/2017
6/19/2013
MW-26
MW-32
MW-55
MW-55R
Well ID

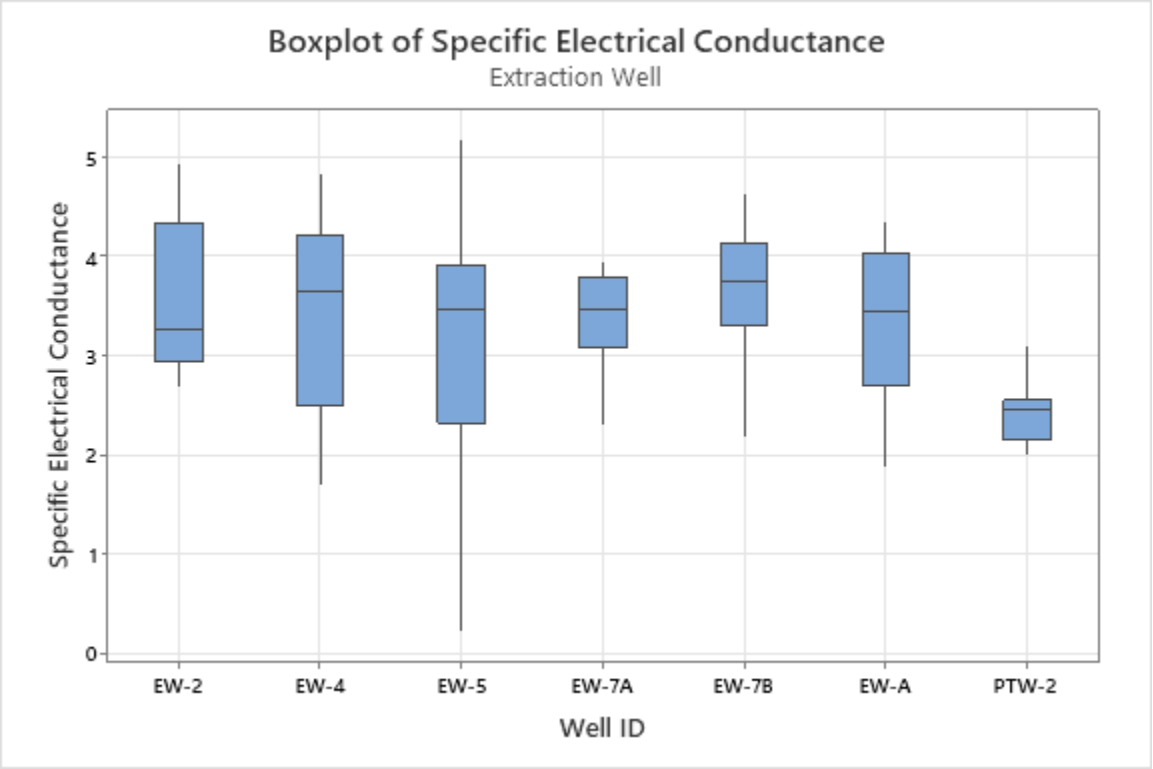

Boxplot of pH
Exp, S Southern Ave
pH
10
9
8
7
6
12/21/2022
11/30/2023
6/11/2019
6/14/2019
MW-26
MW-32
MW-55
MW-55R
Well ID

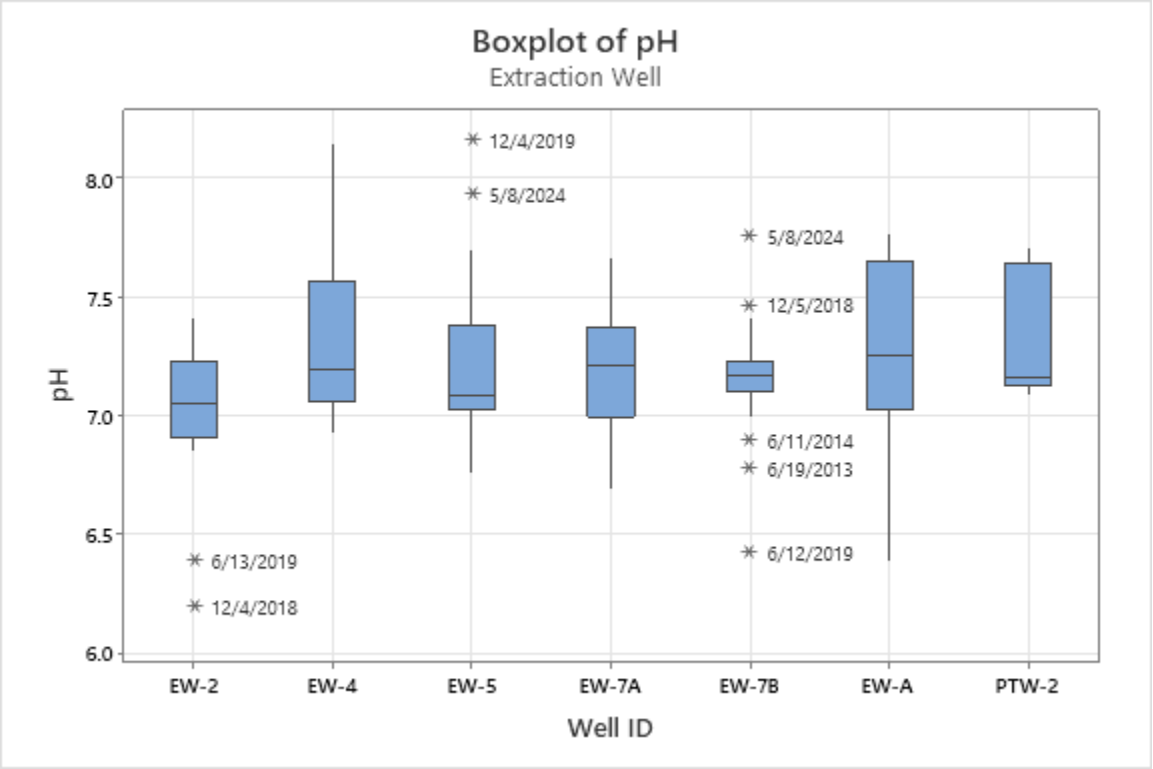

Boxplot of Turbidity (NTU)
Exp, S Southern Ave
Turbidity (NTU)
600
500
400
300
200
100
0
5/7/2024
11/22/2024
6/29/2022
11/28/2016
12/21/2022
MW-26
MW-32
MW-55
MW-55R
Well ID

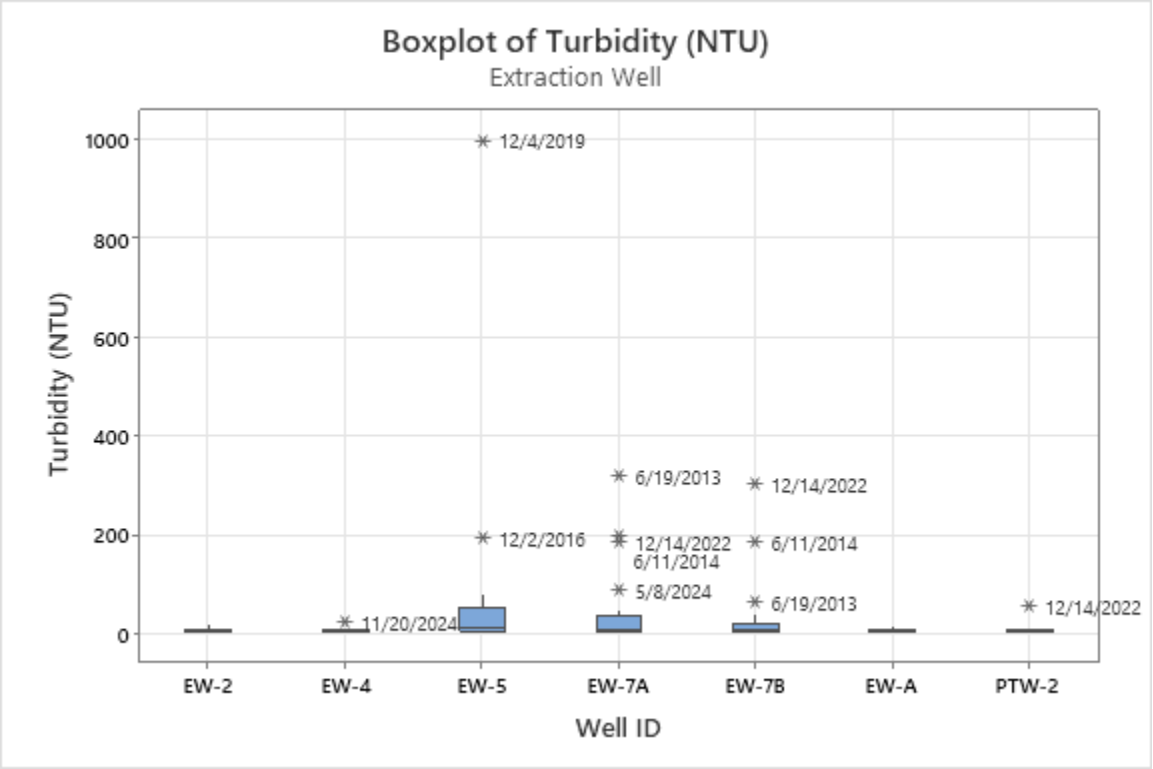

Boxplot of Temperature (Deg C)
Exp, S Southern Ave
Temperature (Deg C)
25
24
23
22
21
20
19
18
12/12/2022
MW-26
MW-32
MW-55
MW-55R
Well ID

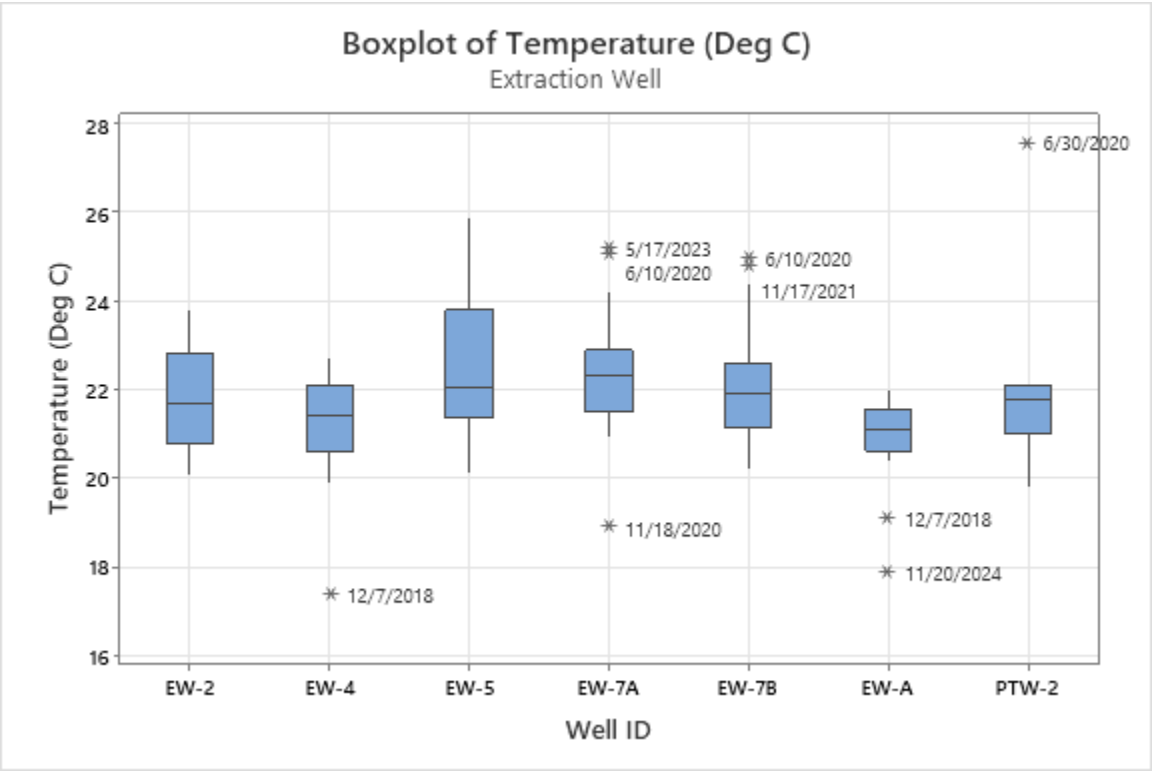

Boxplot of Dissolved Oxygen (mg/L)
Extraction Well
Dissolved Oxygen (mg/L)
7
6
5
4
3
2
1
0
12/4/2019
12/13/2013
6/30/2020
12/7/2018
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

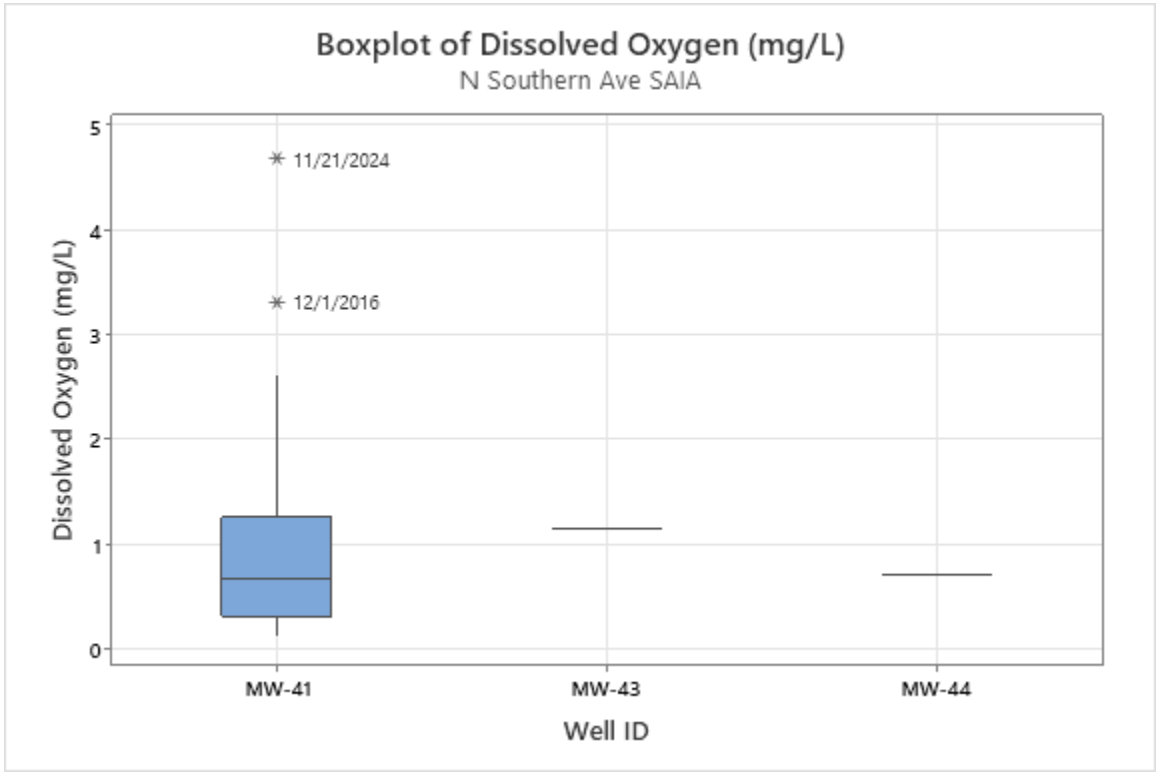

Boxplot of Oxidation Reduction Potential
Extraction Well
Oxidation Reduction Potential
200
100
0
-100
-200
-300
6/10/2020
11/29/2023
5/17/2023
6/13/2019
5/17/2023
6/13/2019
6/13/2019
5/19/2021
5/19/2021
12/13/2013
12/13/2013
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

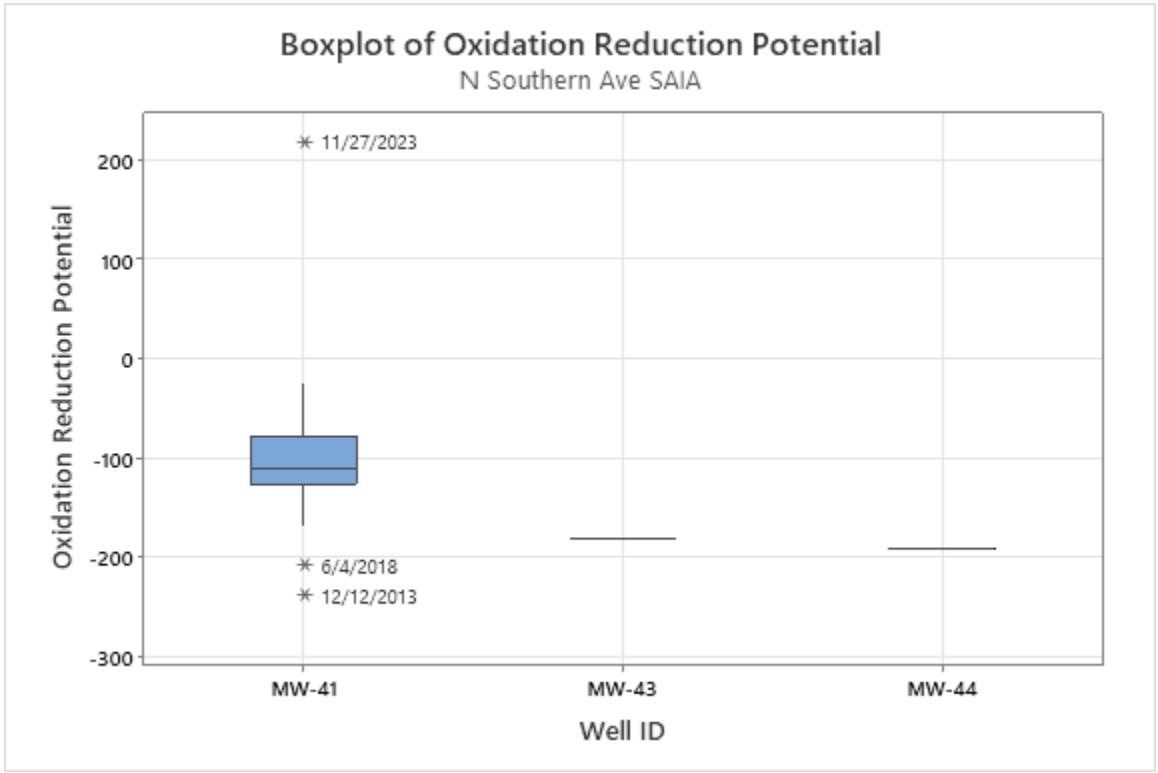

Boxplot of Specific Electrical Conductance
Extraction Well
Specific Electrical Conductance
0
1
2
3
4
5
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

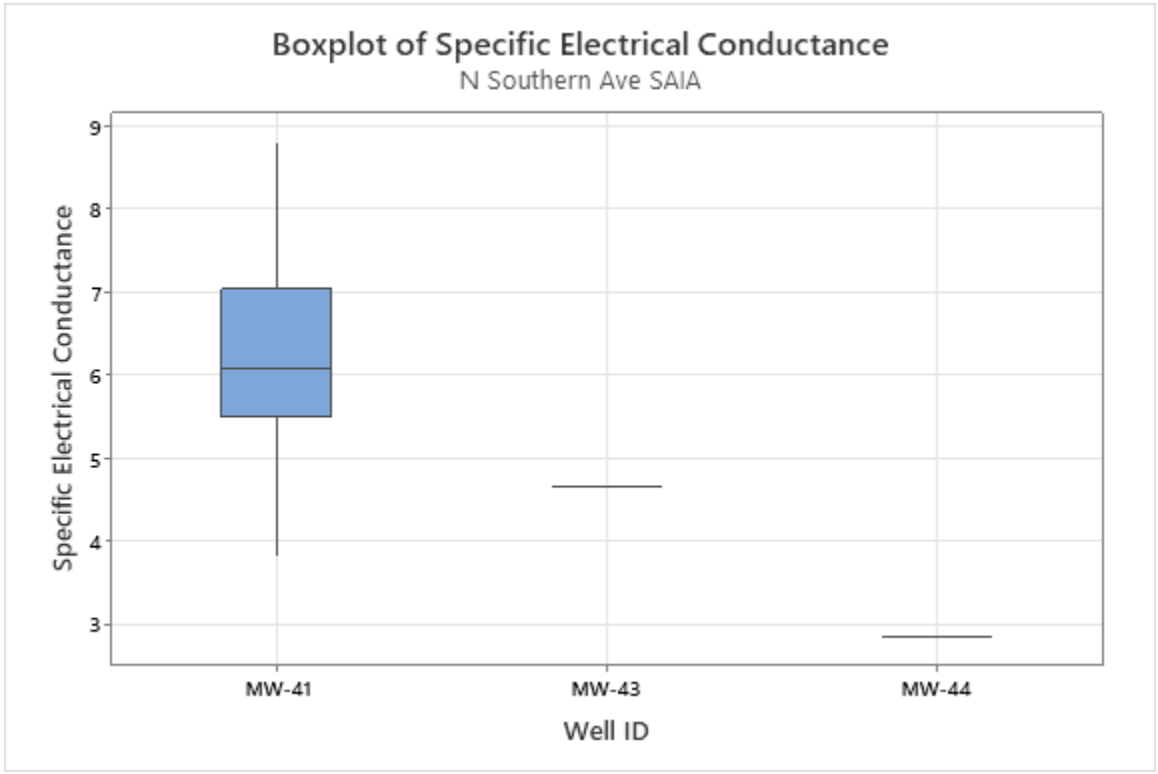

Boxplot of pH
Extraction Well
pH
6.0
6.5
7.0
7.5
8.0
12/4/2019
5/8/2024
5/8/2024
12/5/2018
6/11/2014
6/19/2013
6/12/2019
6/13/2019
12/4/2018
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

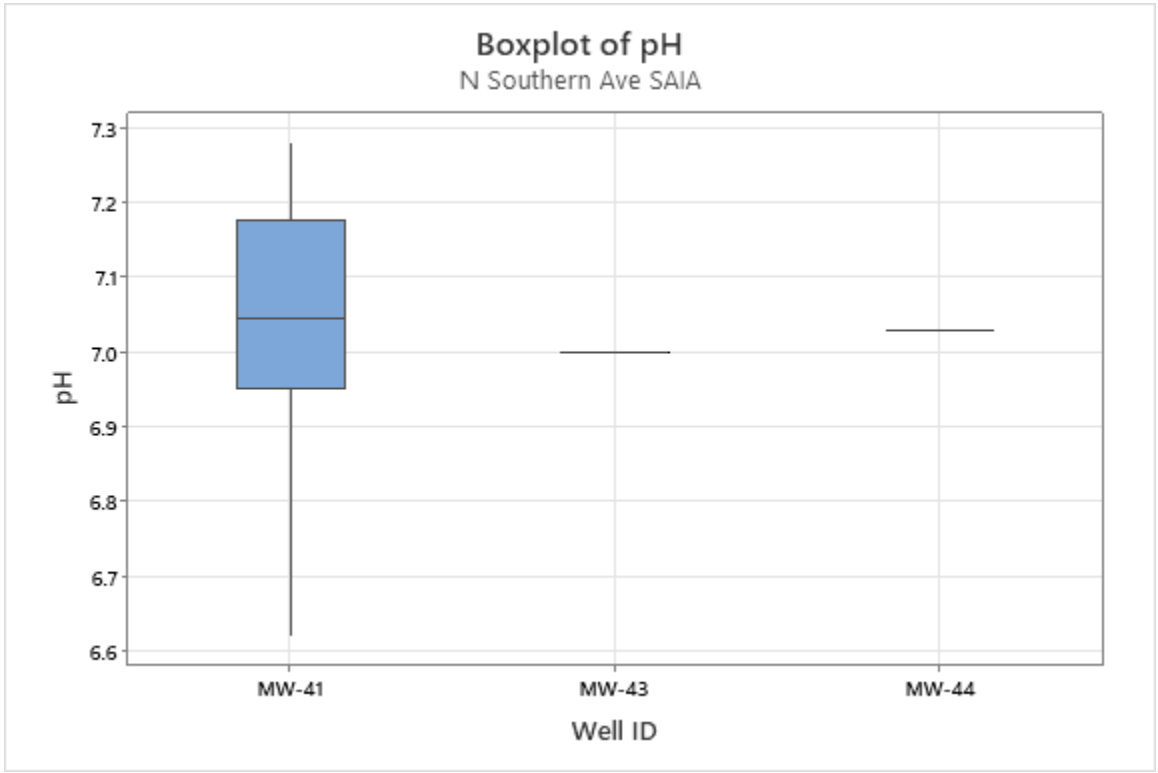

Boxplot of Turbidity (NTU)
Extraction Well
Turbidity (NTU)
1000
800
600
400
200
0
12/4/2019
6/19/2013
12/14/2022
12/2/2016
12/14/2022
6/11/2014
6/11/2014
5/8/2024
6/19/2013
11/20/2024
12/14/2022
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

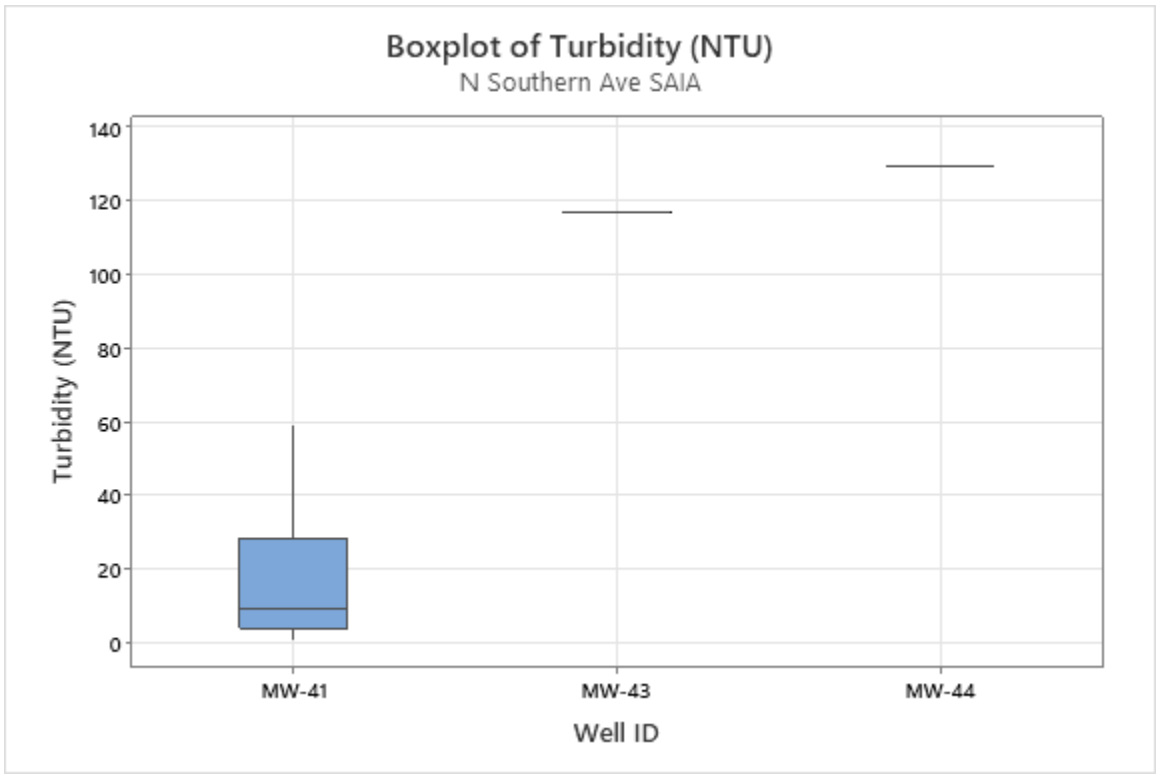

Boxplot of Temperature (Deg C)
Extraction Well
Temperature (Deg C)
28
26
24
22
20
18
16
6/30/2020
5/17/2023
6/10/2020
6/10/2020
11/17/2021
11/18/2020
12/7/2018
12/7/2018
11/20/2024
EW-2
EW-4
EW-5
EW-7A
EW-7B
EW-A
PTW-2
Well ID

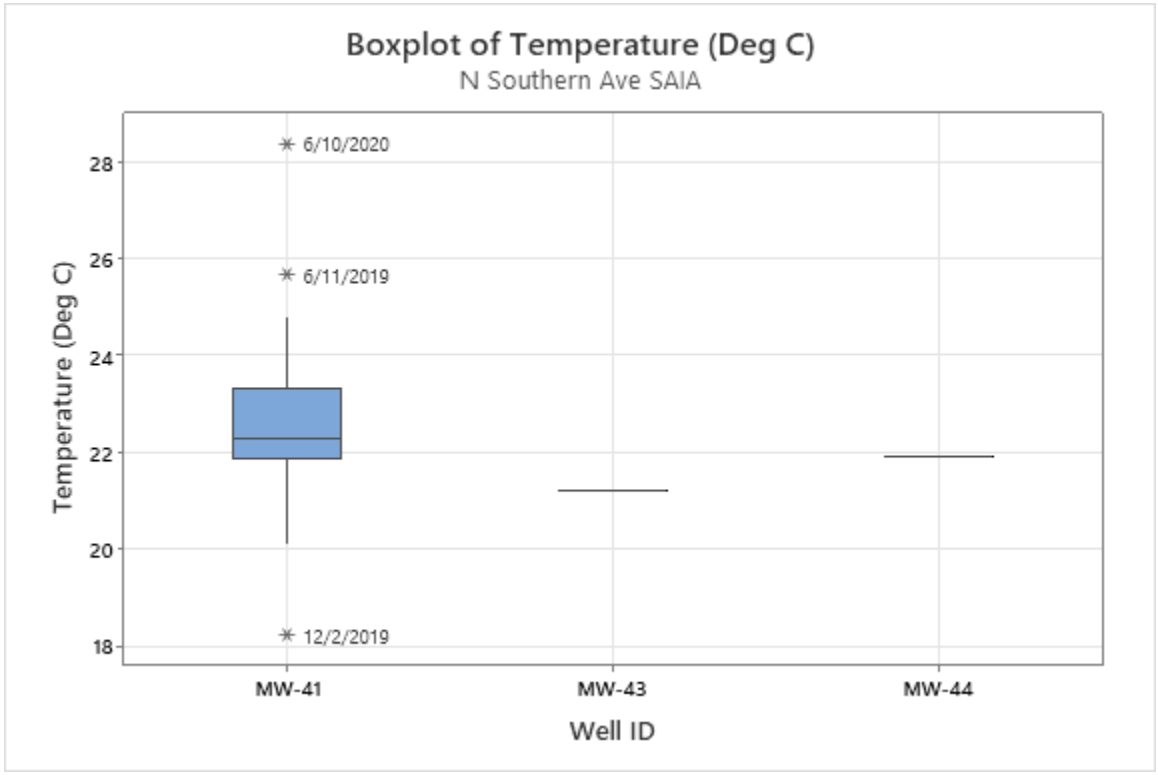

Boxplot of Dissolved Oxygen (mg/L)
N Southern Ave SAIA
Dissolved Oxygen (mg/L)
5
4
3
2
1
0
11/21/2024
12/1/2016
MW-41
MW-43
MW-44
Well ID

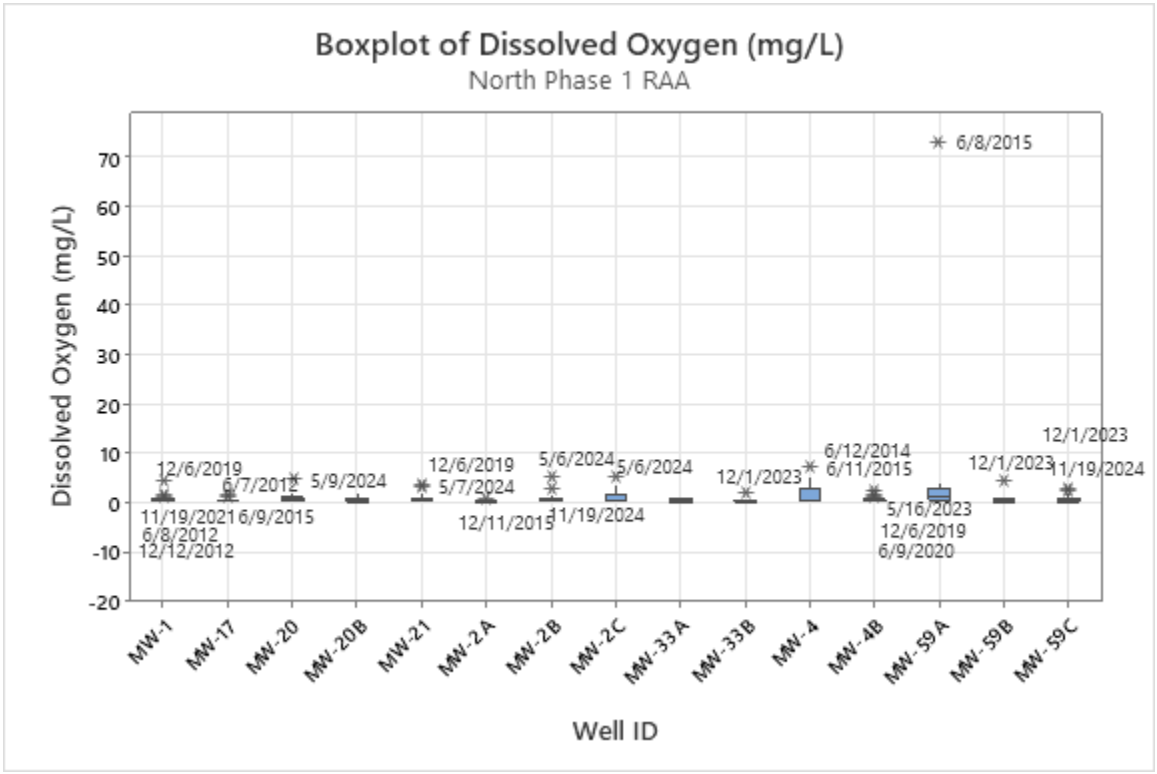

Boxplot of Oxidation Reduction Potential
N Southern Ave SAIA
Oxidation Reduction Potential
200
100
0
-100
-200
-300
11/27/2023
6/4/2018
12/12/2013
MW-41
MW-43
MW-44
Well ID

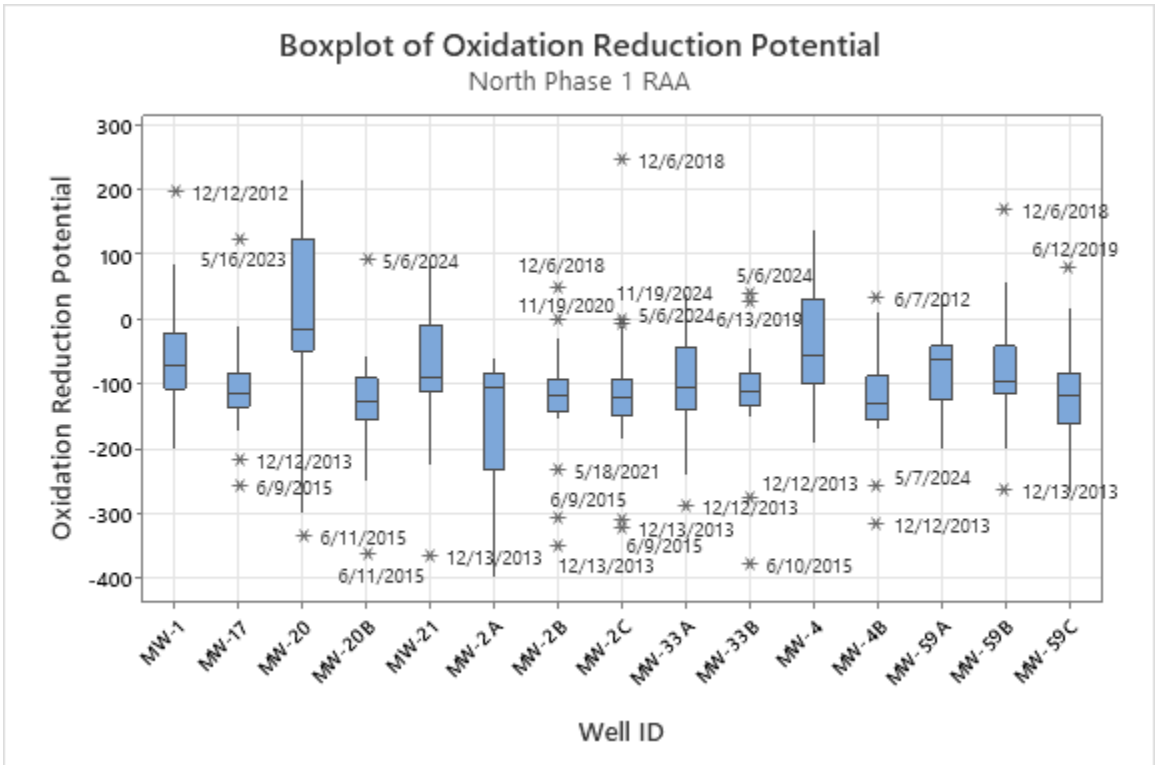

Boxplot of Specific Electrical Conductance
N Southern Ave SAIA
Specific Electrical Conductance
9
8
7
6
5
4
3
MW-41
MW-43
MW-44
Well ID

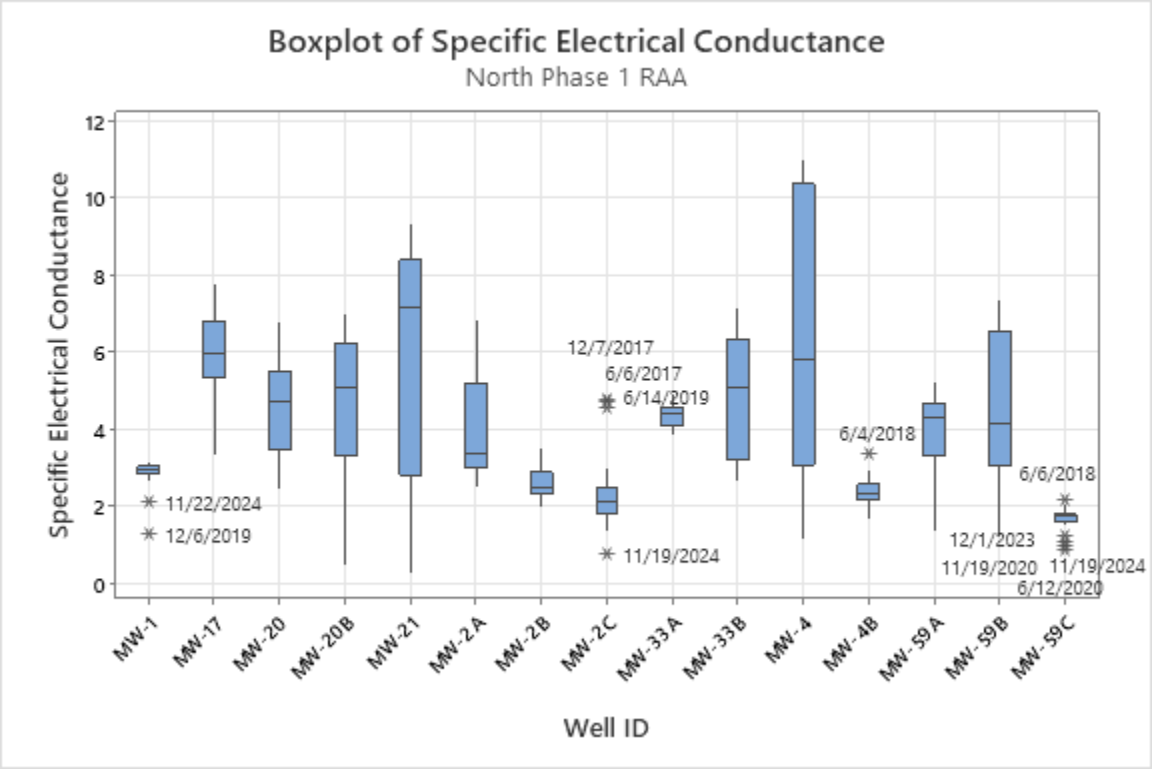

Boxplot of pH
N Southern Ave SAIA
pH
7.3
7.2
7.1
7.0
6.9
6.8
6.7
6.6
MW-41
MW-43
MW-44
Well ID

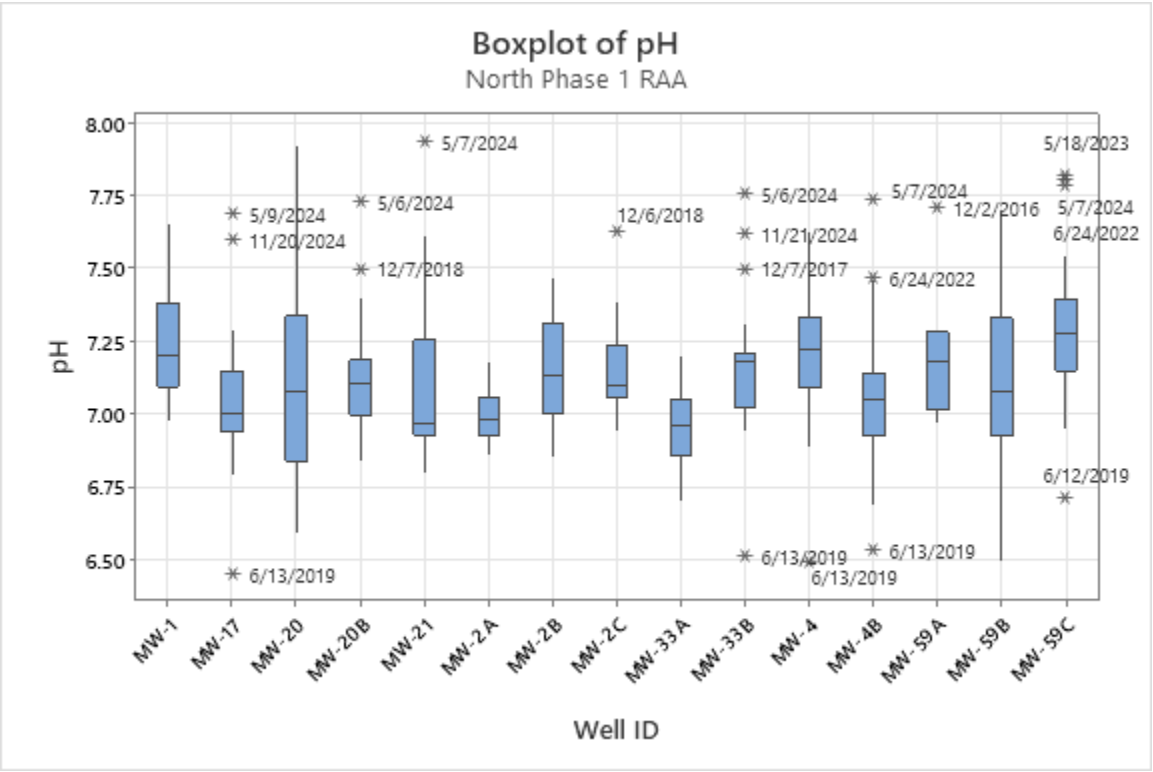

Boxplot of Turbidity (NTU)
N Southern Ave SAIA
Turbidity (NTU)
140
120
100
80
60
40
20
0
MW-41
MW-43
MW-44
Well ID

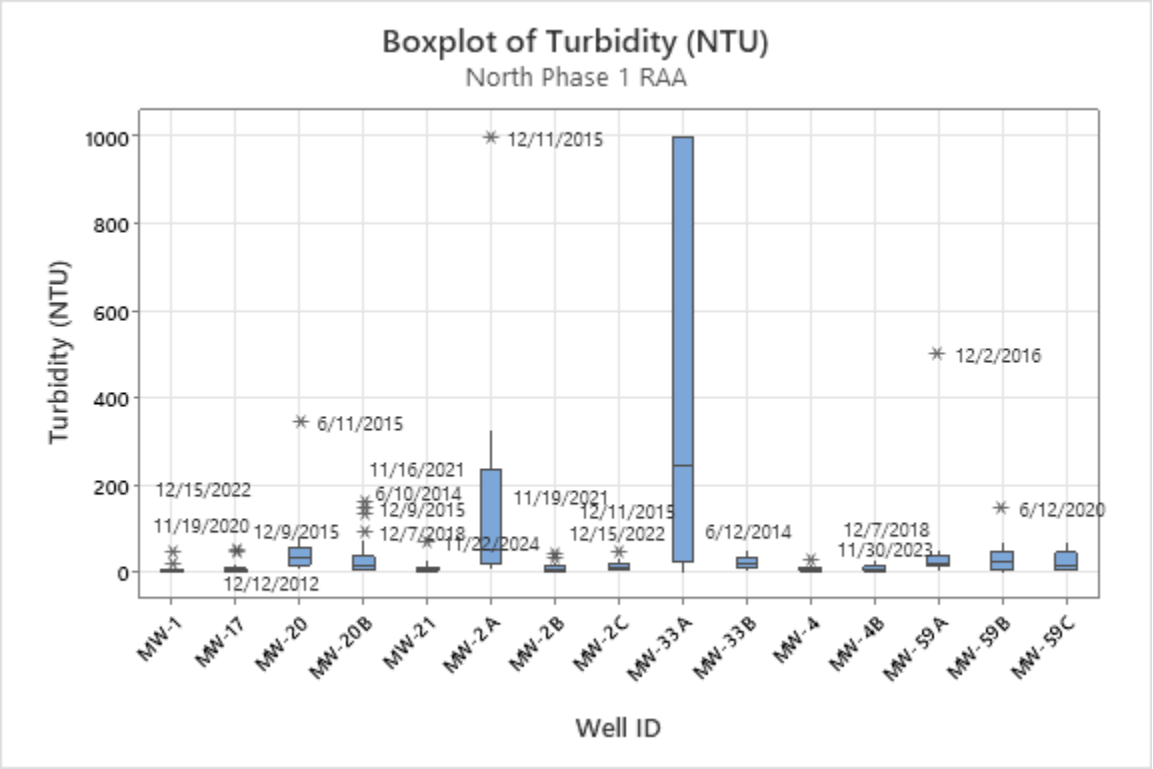

Boxplot of Temperature (Deg C)
N Southern Ave SAIA
Temperature (Deg C)
28
26
24
22
20
18
6/10/2020
6/11/2019
12/2/2019
MW-41
MW-43
MW-44
Well ID

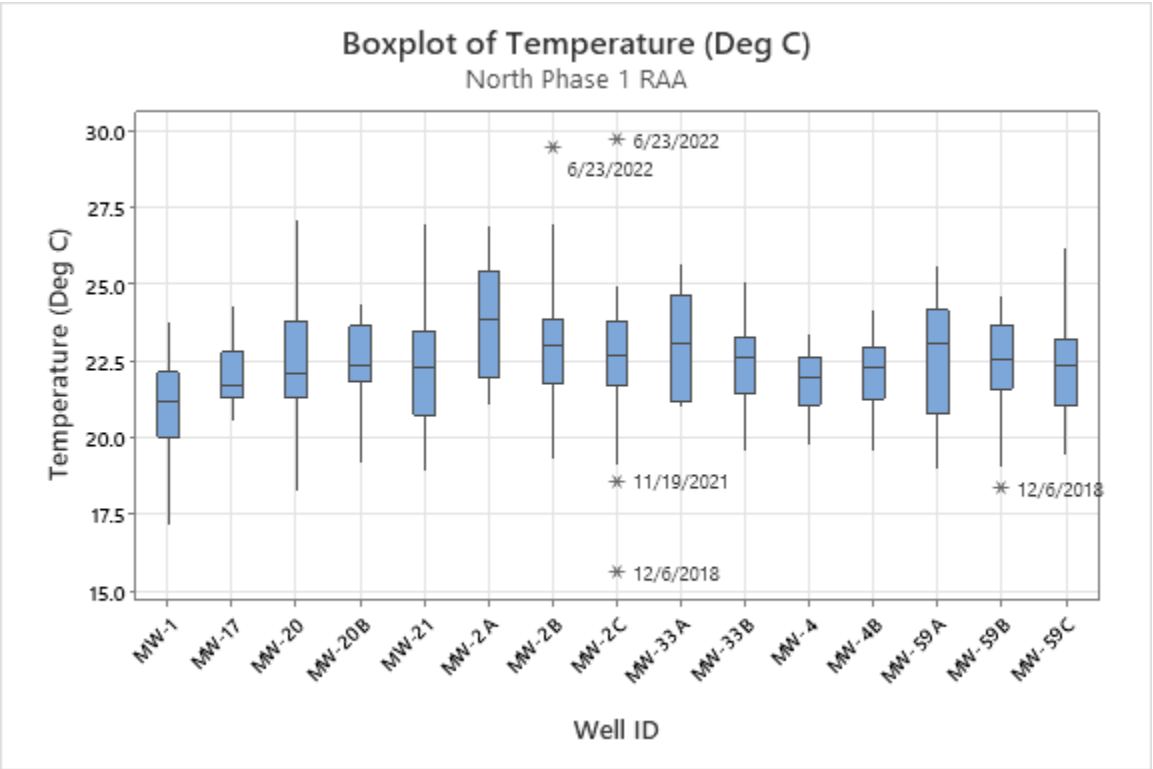

Boxplot of Dissolved Oxygen (mg/L)
North Phase 1 RAA
Dissolved Oxygen (mg/L)
Well ID
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
6/8/2015
12/6/2019
6/7/2012
5/9/2024
11/19/2021
6/9/2015
6/8/2012
12/12/2012
12/6/2019
5/7/2024
12/11/2015
5/6/2024
11/19/2024
5/6/2024
12/1/2023
6/12/2014
6/11/2015
5/16/2023
12/6/2019
6/9/2020
12/1/2023
12/1/2023
11/19/2024

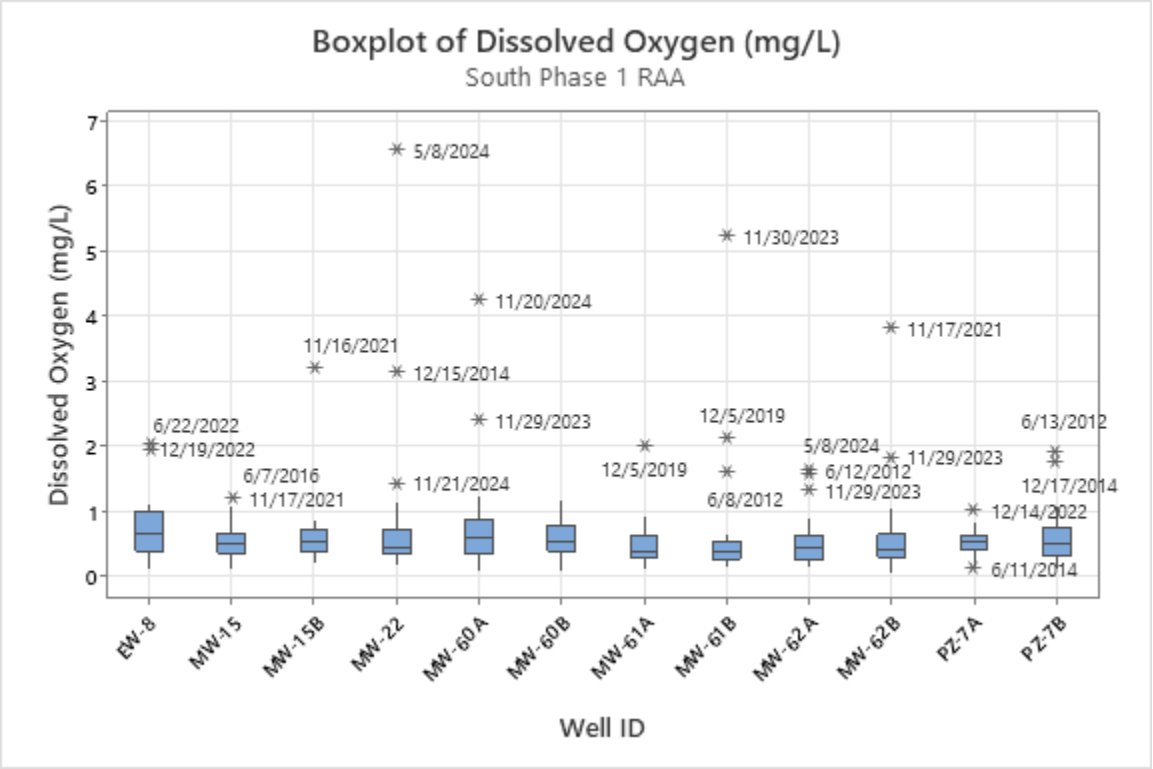

Boxplot of Oxidation Reduction Potential
North Phase 1 RAA
Oxidation Reduction Potential
Well ID
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
12/12/2012
5/16/2023
12/12/2013
6/9/2015
6/11/2015
6/11/2015
5/6/2024
12/13/2013
12/6/2018
11/19/2020
5/18/2021
6/9/2015
12/13/2013
12/6/2018
11/19/2024
5/6/2024
12/13/2013
6/9/2015
5/6/2024
6/13/2019
12/12/2013
12/12/2013
6/10/2015
6/7/2012
5/7/2024
12/12/2013
12/6/2018
6/12/2019
12/13/2013

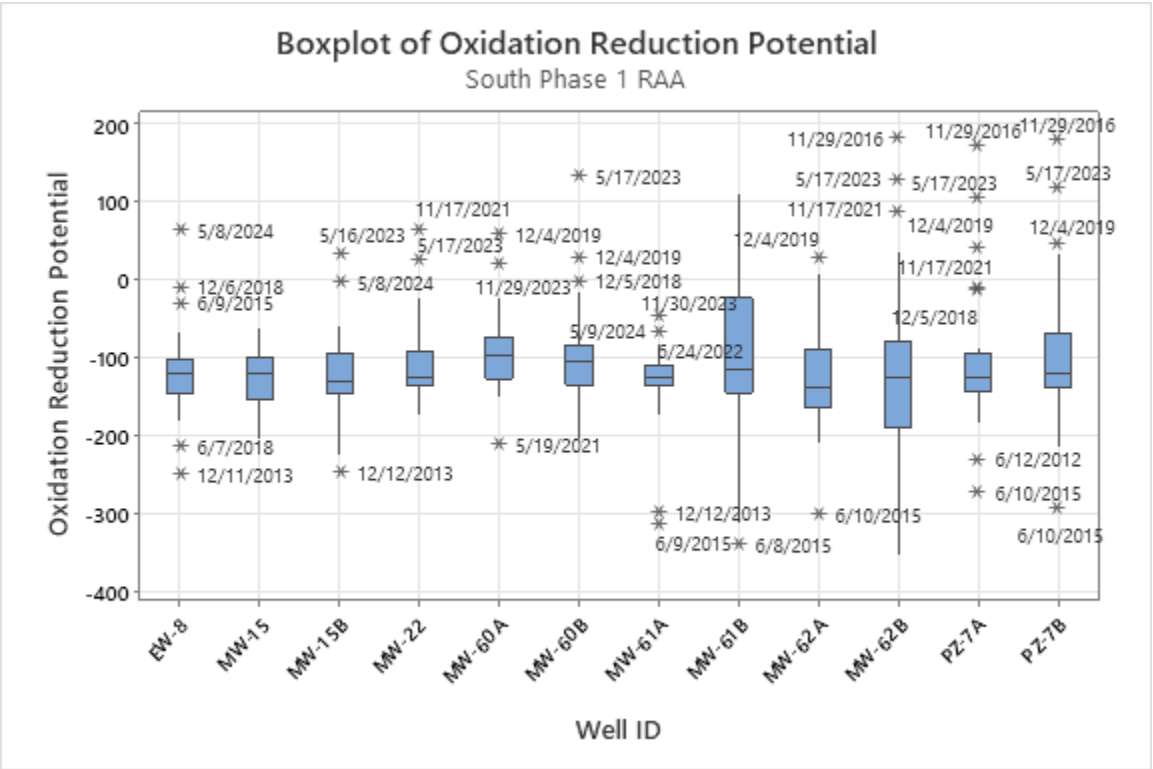

Boxplot of Specific Electrical Conductance
North Phase 1 RAA
Specific Electrical Conductance
12
10
8
6
4
2
0
11/22/2024
12/6/2019
12/7/2017
6/6/2017
6/14/2019
11/19/2024
6/4/2018
6/6/2018
12/1/2023
11/19/2020
11/19/2024
6/12/2020
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
Well ID

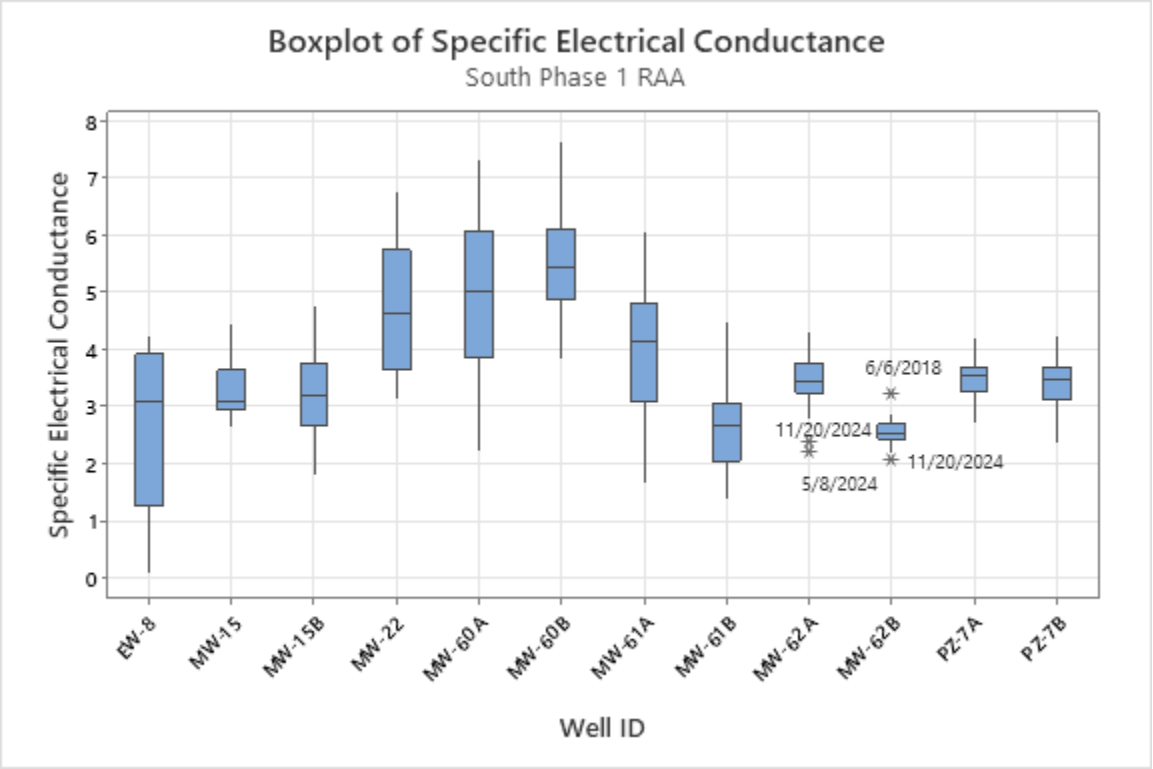

Boxplot of pH
North Phase 1 RAA
pH
8.00
7.75
7.50
7.25
7.00
6.75
6.50
5/7/2024
5/9/2024
11/20/2024
5/6/2024
12/7/2018
6/13/2019
12/6/2018
5/6/2024
11/21/2024
12/7/2017
6/13/2019
6/13/2019
5/7/2024
12/2/2016
6/24/2022
5/18/2023
5/7/2024
6/24/2022
6/12/2019
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
Well ID

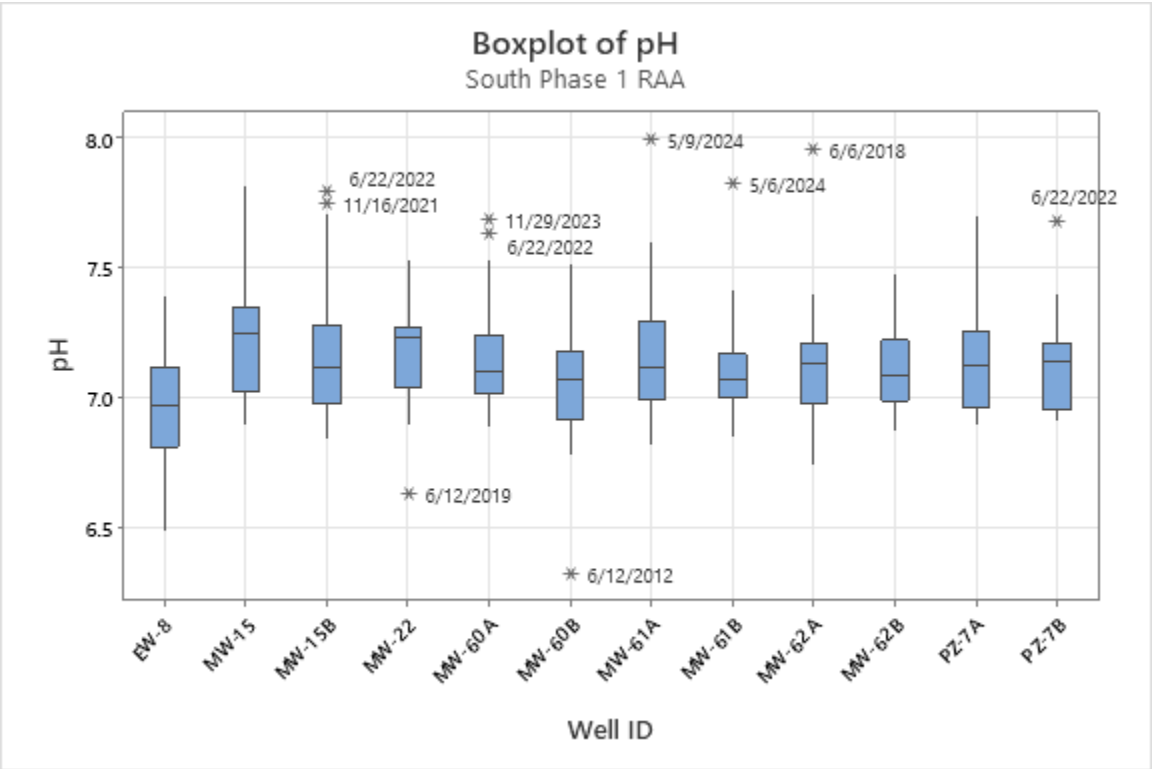

Boxplot of Turbidity (NTU)
North Phase 1 RAA
Turbidity (NTU)
1000
800
600
400
200
0
12/11/2015
12/2/2016
6/11/2015
11/16/2021
6/10/2014
12/9/2015
12/15/2022
11/19/2020
12/9/2015
12/7/2018
11/19/2021
12/11/2015
12/15/2022
6/12/2014
12/7/2018
11/30/2023
6/12/2020
11/22/2024
12/12/2012
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
Well ID

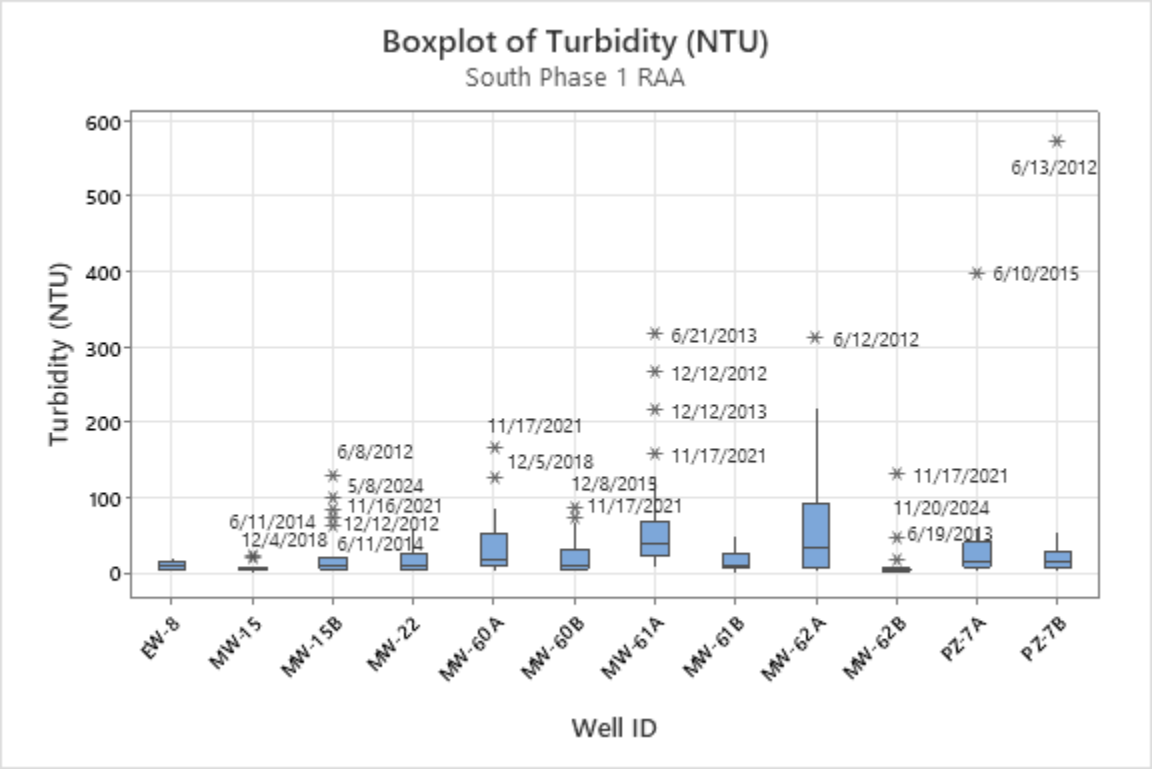

Boxplot of Temperature (Deg C)
North Phase 1 RAA
Temperature (Deg C)
30.0
27.5
25.0
22.5
20.0
17.5
15.0
6/23/2022
6/23/2022
11/19/2021
12/6/2018
12/6/2018
MW-1
MW-17
MW-20
MW-20B
MW-21
MW-2A
MW-2B
MW-2C
MW-33A
MW-33B
MW-4
MW-4B
MW-S9A
MW-S9B
MW-S9C
Well ID

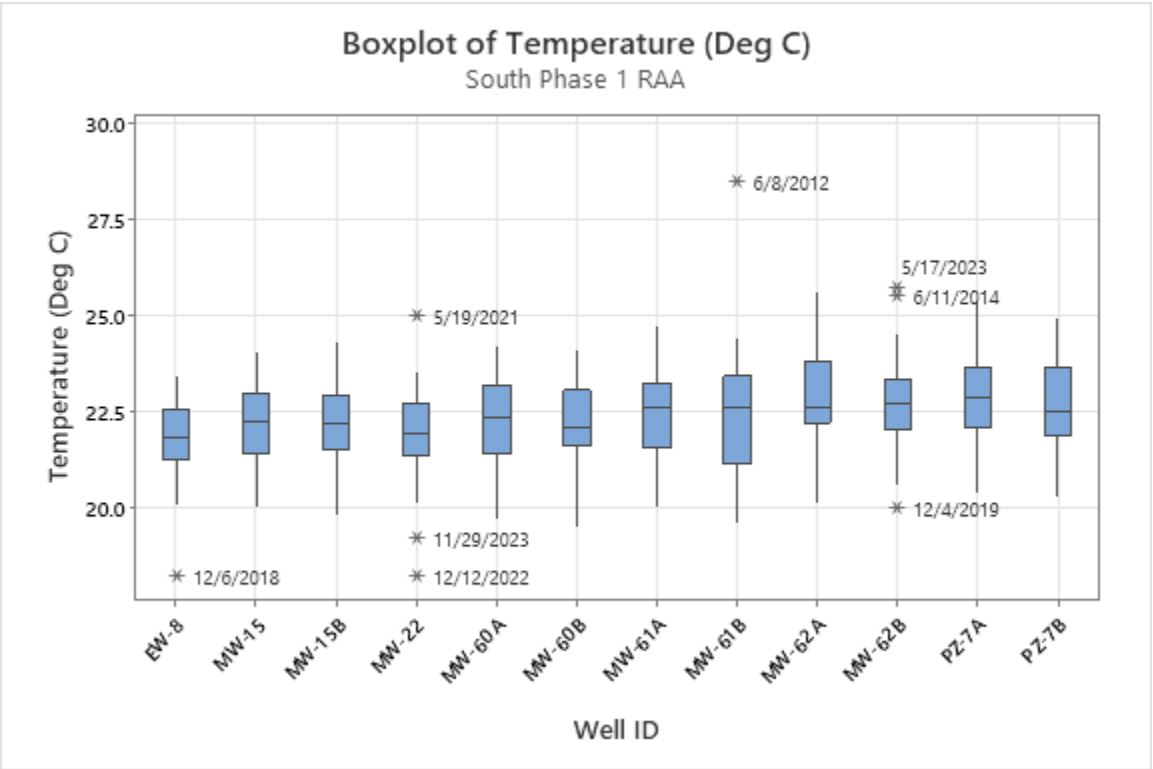

Boxplot of Dissolved Oxygen (mg/L)
South Phase 1 RAA
Dissolved Oxygen (mg/L)
Well ID
EW-8
MW-15
MW-15B
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
5/8/2024
11/30/2023
11/20/2024
11/17/2021
11/16/2021
12/15/2014
11/29/2023
12/5/2019
6/22/2022
12/19/2022
6/7/2016
11/17/2021
11/21/2024
6/8/2012
6/12/2012
12/14/2022
6/11/2014
6/13/2012
12/17/2014

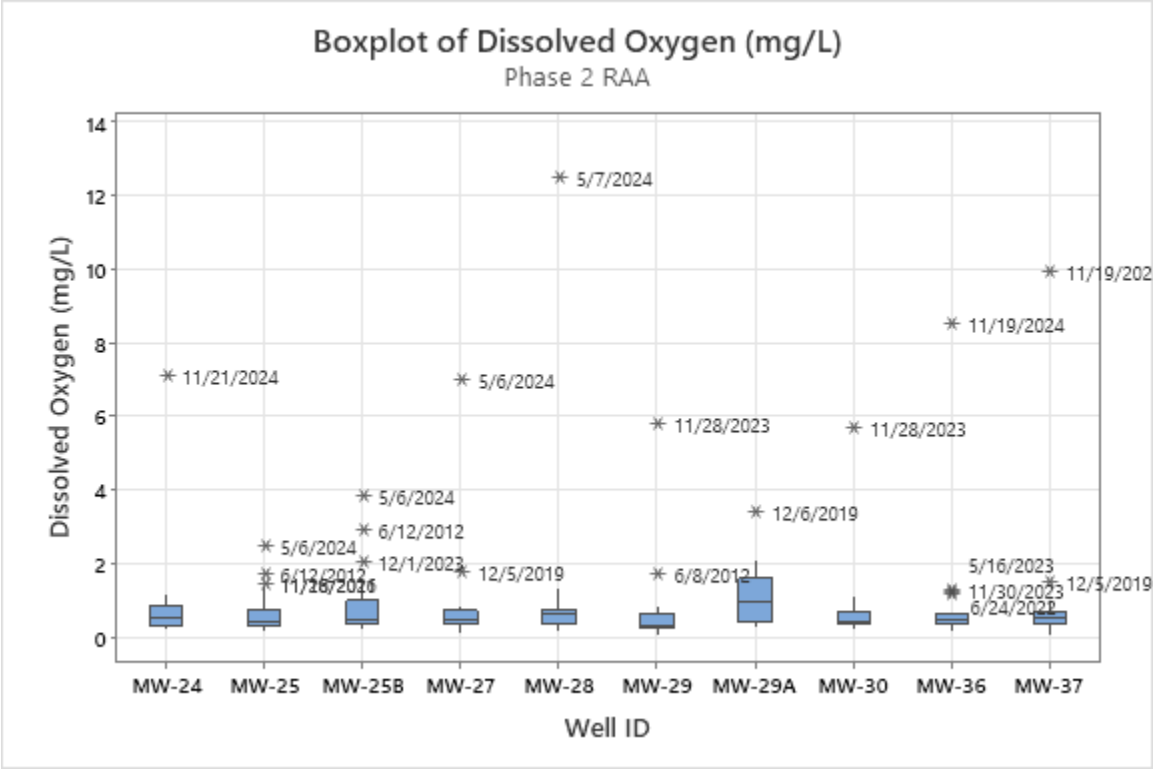

Boxplot of Oxidation Reduction Potential
South Phase 1 RAA
Oxidation Reduction Potential
Well ID
EW-8
MW-15
MW-15B
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
11/29/2016
5/17/2023
11/17/2021
12/4/2019
5/8/2024
5/16/2023
12/6/2018
6/9/2015
12/5/2018
11/30/2023
5/9/2024
6/24/2022
6/7/2018
12/11/2013
12/12/2013
5/19/2021
6/10/2015
6/8/2015
6/12/2012

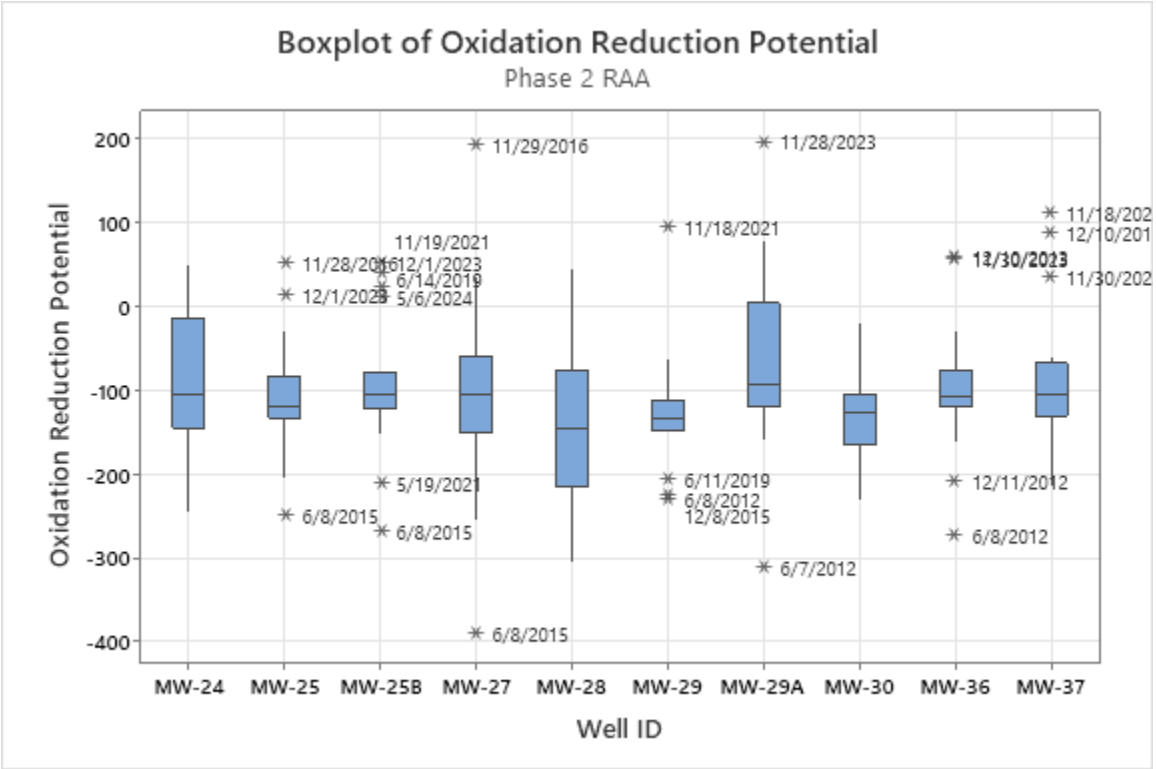

Boxplot of Specific Electrical Conductance
South Phase 1 RAA
Specific Electrical Conductance
8
7
6
5
4
3
2
1
0
6/6/2018
11/20/2024
11/20/2024
5/8/2024
EW-8
MW-1S
MW-1SB
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
Well ID

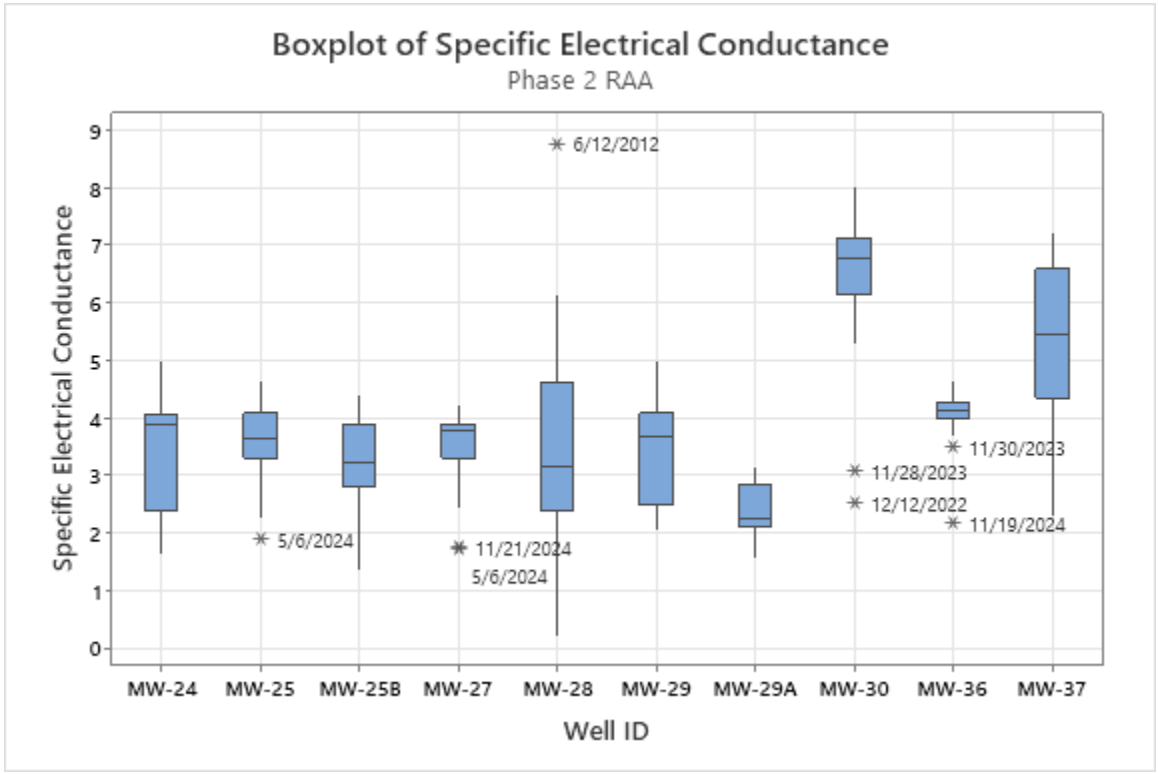

Boxplot of pH
South Phase 1 RAA
pH
8.0
7.5
7.0
6.5
6/22/2022
11/16/2021
11/29/2023
6/22/2022
5/9/2024
6/6/2018
5/6/2024
6/22/2022
6/12/2019
6/12/2012
EW-8
MW-1S
MW-1SB
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
Well ID

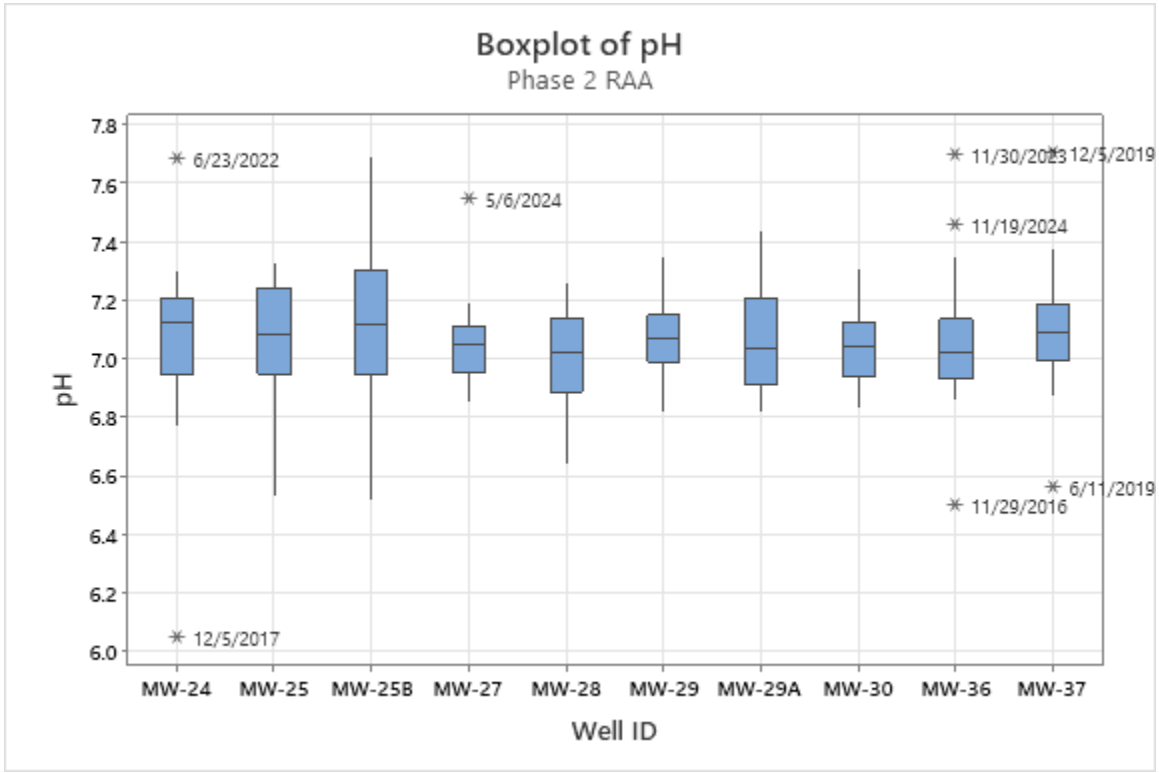

Boxplot of Turbidity (NTU)
South Phase 1 RAA
Turbidity (NTU)
600
500
400
300
200
100
0
6/13/2012
6/10/2015
6/21/2013
6/12/2012
12/12/2012
12/12/2013
11/17/2021
11/17/2021
12/5/2018
6/8/2012
5/8/2024
11/16/2021
12/12/2012
6/11/2014
12/4/2018
6/11/2014
12/8/2015
11/17/2021
11/17/2021
11/20/2024
6/19/2013
EW-8
MW-1S
MW-15B
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
Well ID

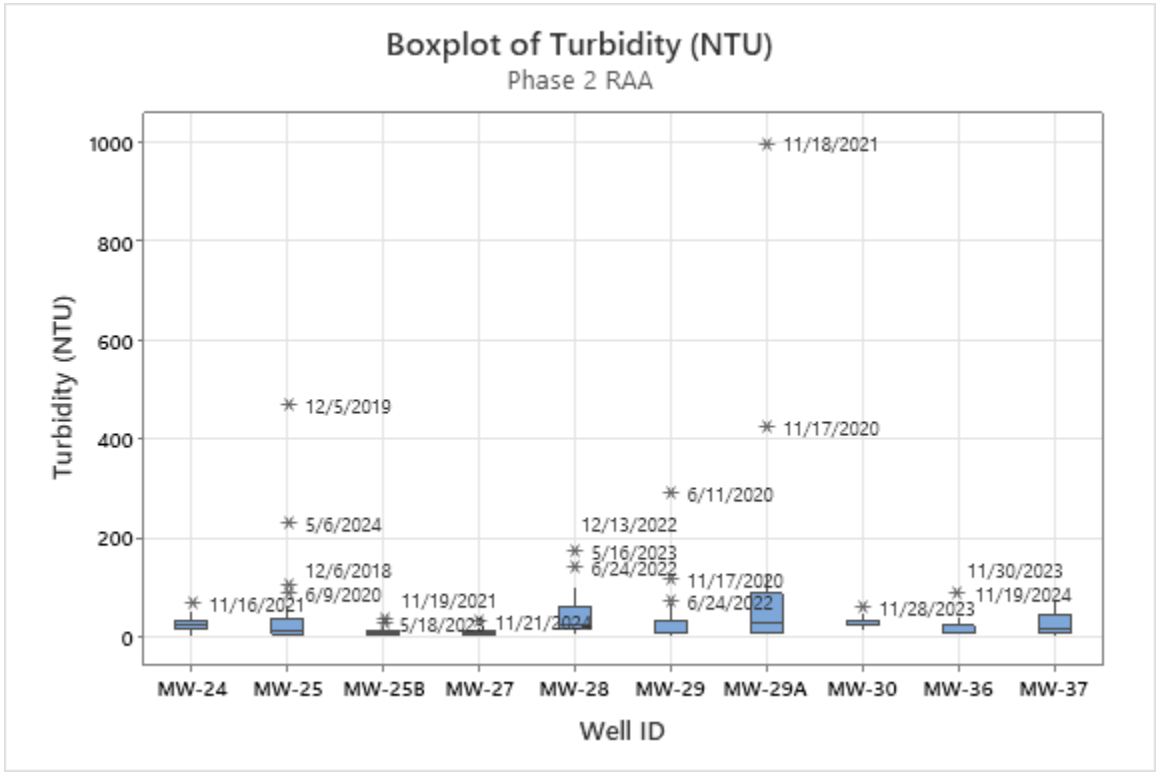

Boxplot of Temperature (Deg C)
South Phase 1 RAA
Temperature (Deg C)
30.0
27.5
25.0
22.5
20.0
6/8/2012
5/17/2023
6/11/2014
5/19/2021
12/4/2019
11/29/2023
12/6/2018
12/12/2022
EW-8
MW-1S
MW-15B
MW-22
MW-60A
MW-60B
MW-61A
MW-61B
MW-62A
MW-62B
PZ-7A
PZ-7B
Well ID

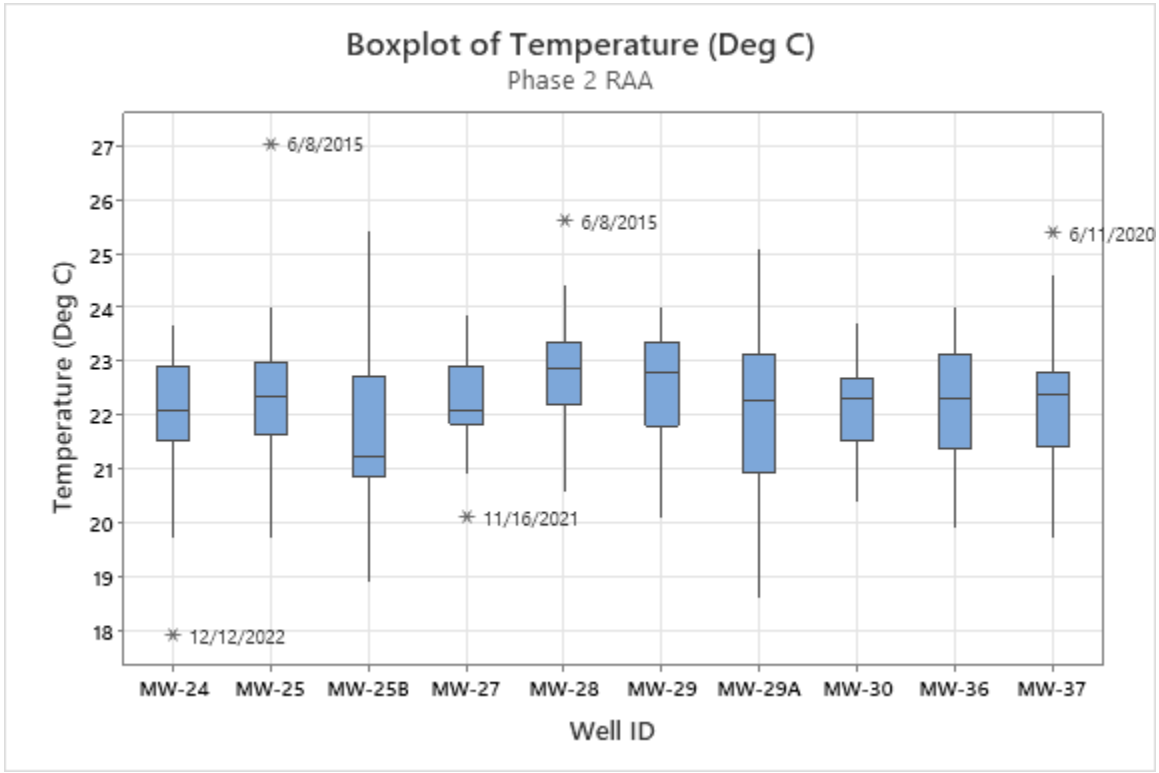

Boxplot of Dissolved Oxygen (mg/L)
Phase 2 RAA
Dissolved Oxygen (mg/L)
Well ID
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
5/7/2024
11/21/2024
5/6/2024
11/28/2023
11/28/2023
11/19/2024
5/6/2024
6/12/2012
12/1/2023
12/6/2019
12/5/2019
6/8/2012
5/16/2023
11/30/2023
6/24/2021
12/5/2019

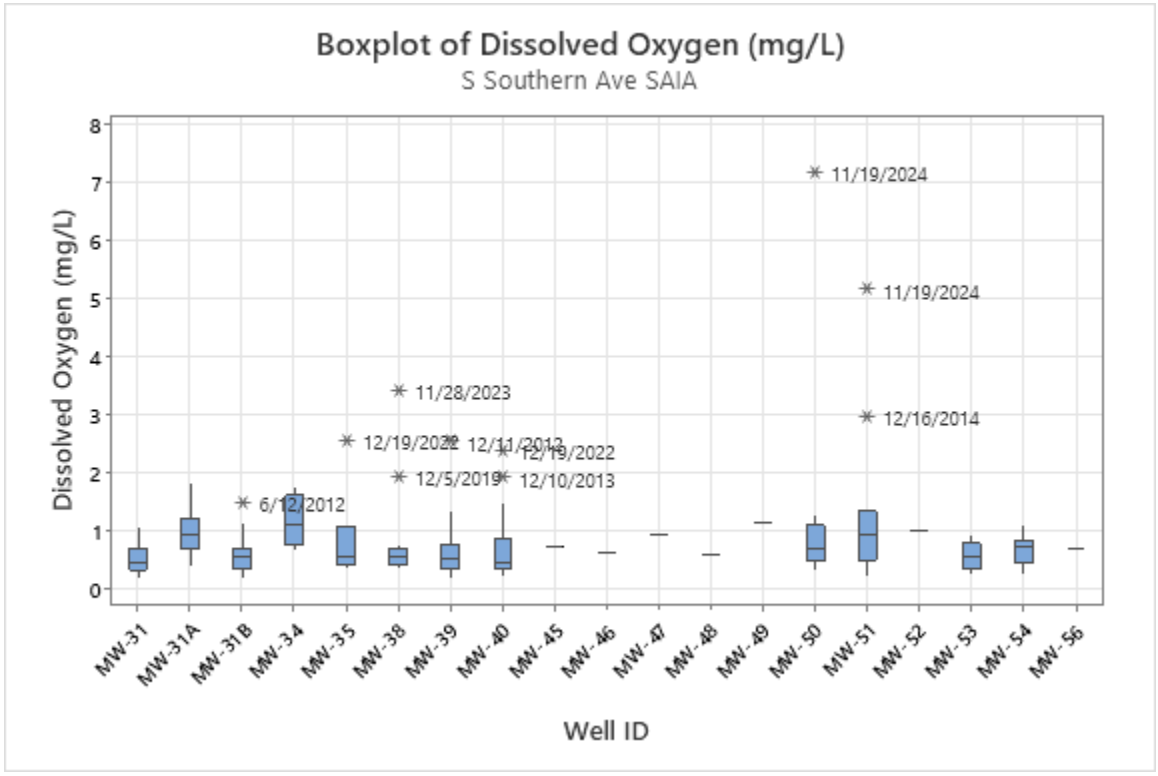

Boxplot of Oxidation Reduction Potential
Phase 2 RAA
Oxidation Reduction Potential
Well ID
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
11/29/2016
11/28/2023
11/18/2021
11/19/2021
12/1/2023
6/14/2019
5/6/2024
5/19/2021
6/8/2015
6/8/2015
6/8/2015
6/11/2019
6/8/2012
12/8/2015
6/7/2012
12/11/2012
6/8/2012
12/10/201
11/30/202

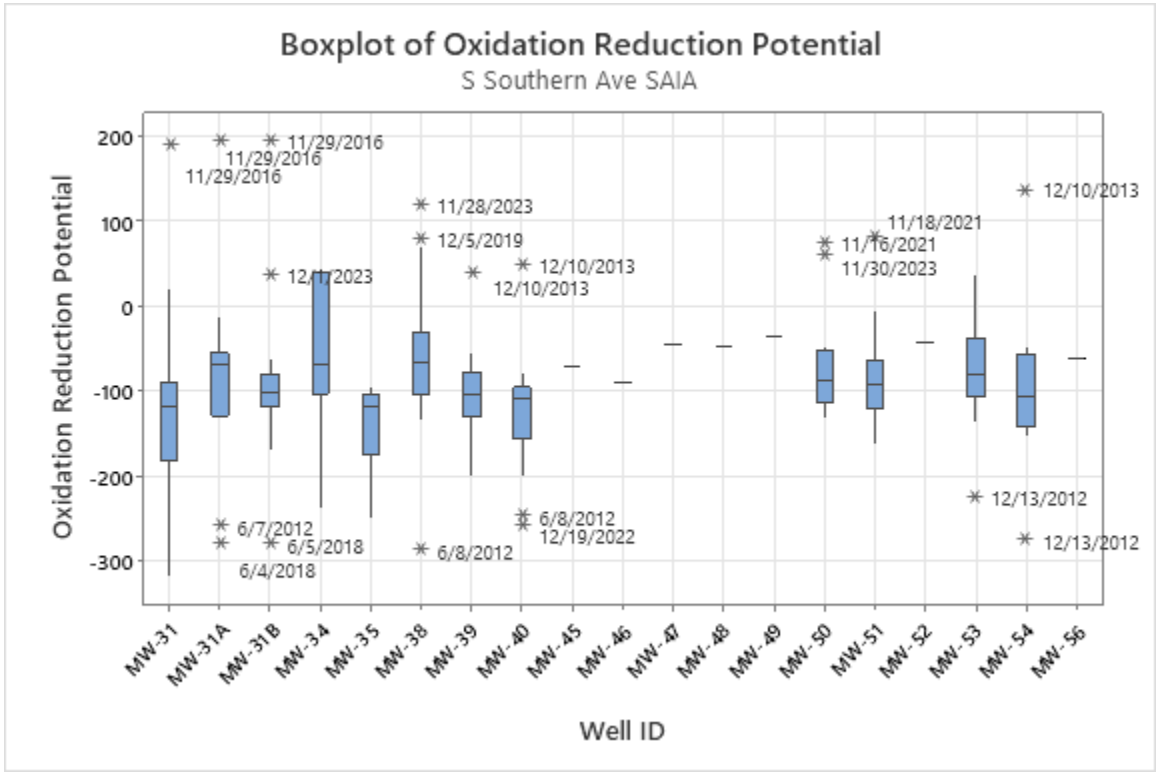

Boxplot of Specific Electrical Conductance
Phase 2 RAA
Specific Electrical Conductance
9
8
7
6
5
4
3
2
1
0
6/12/2012
11/30/2023
11/28/2023
12/12/2022
11/19/2024
5/6/2024
11/21/2024
5/6/2024
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
Well ID

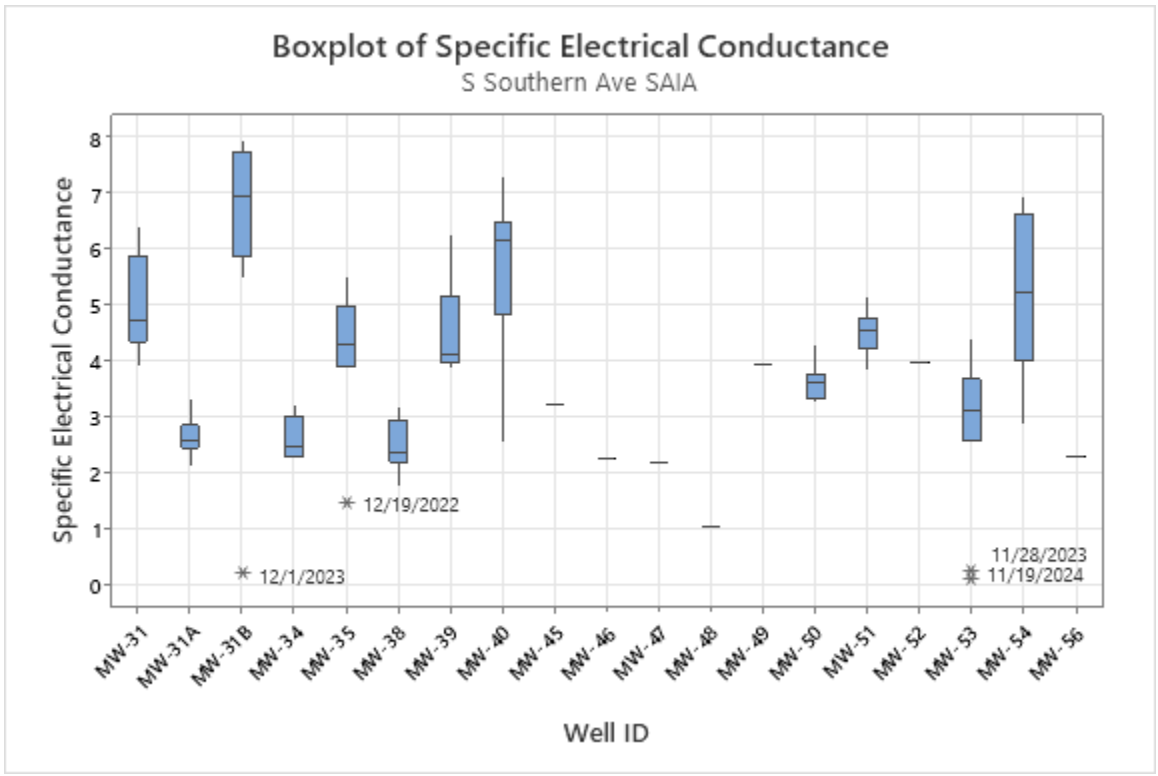

Boxplot of pH
Phase 2 RAA
pH
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
6/23/2022
5/6/2024
11/30/2023
12/5/2019
11/19/2024
6/11/2019
11/29/2016
12/5/2017
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
Well ID

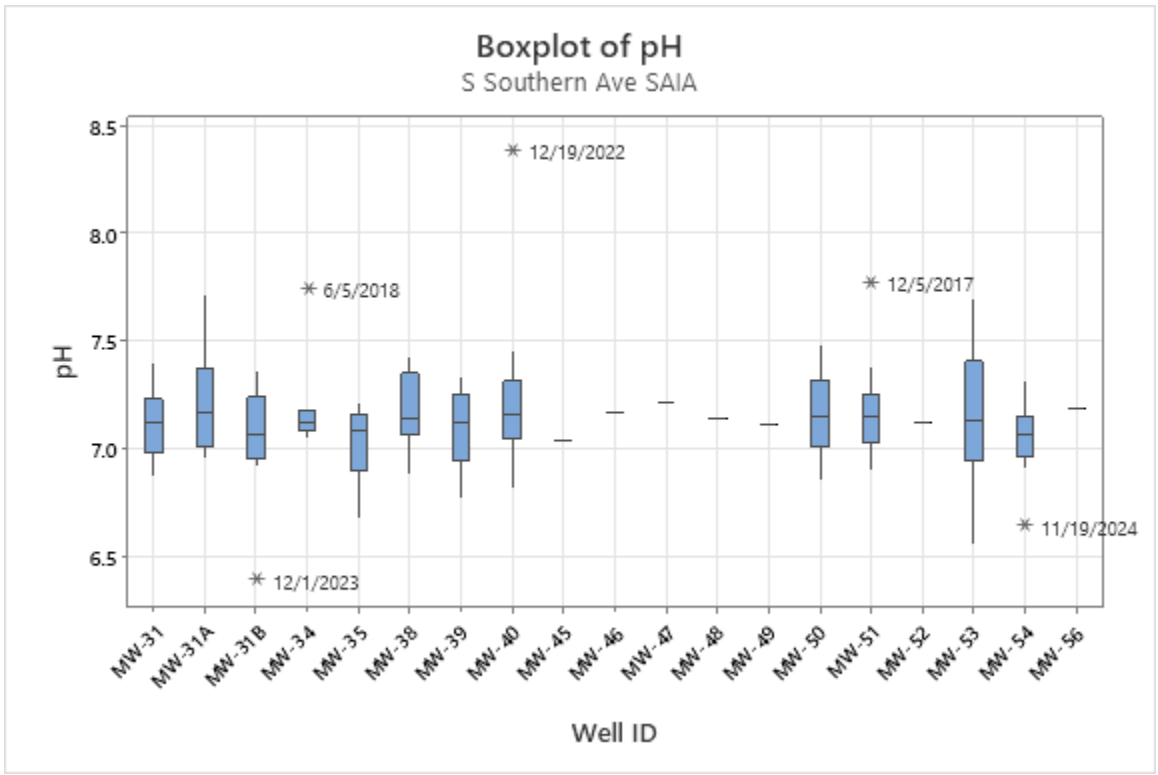

Boxplot of Turbidity (NTU)
Phase 2 RAA
Turbidity (NTU)
1000
800
600
400
200
0
11/18/2021
12/5/2019
11/17/2020
6/11/2020
5/6/2024
12/13/2022
5/16/2023
6/24/2022
12/6/2018
6/9/2020
11/17/2020
6/24/2022
11/30/2023
11/19/2024
11/16/2021
11/19/2021
11/28/2023
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
Well ID

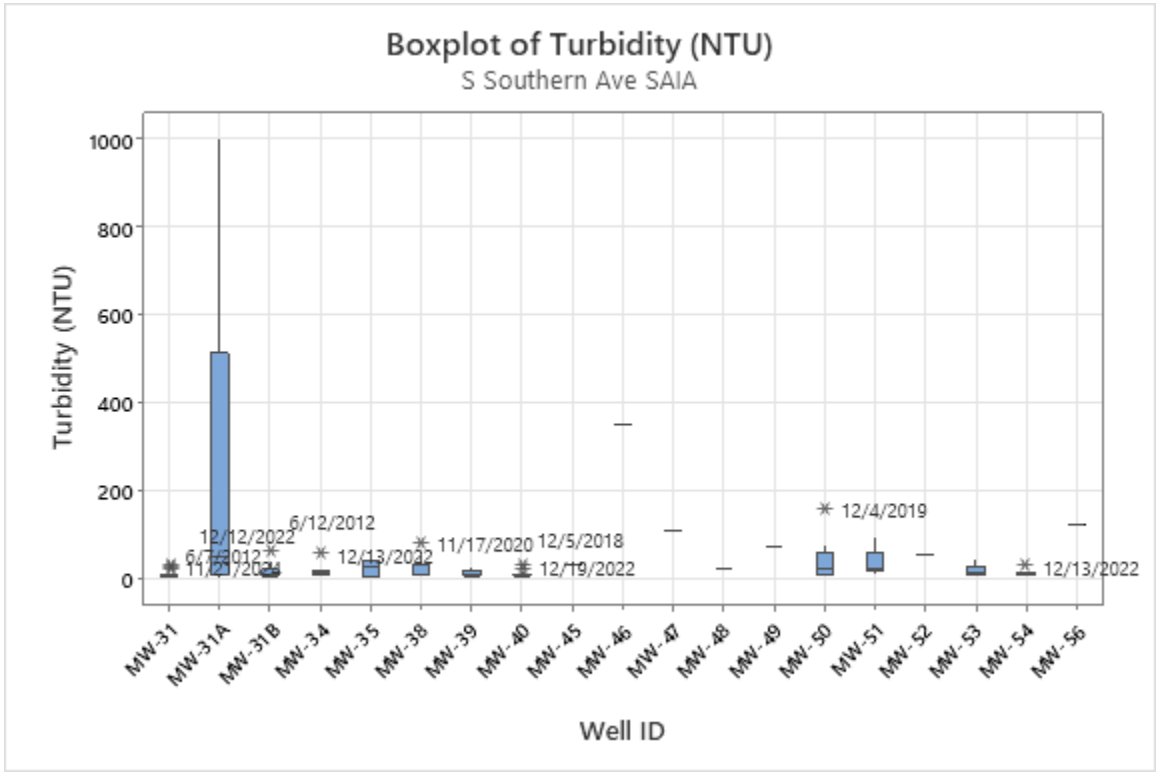

Boxplot of Temperature (Deg C)
Phase 2 RAA
Temperature (Deg C)
27
26
25
24
23
22
21
20
19
18
6/8/2015
6/8/2015
6/11/2020
11/16/2021
12/12/2022
MW-24
MW-25
MW-25B
MW-27
MW-28
MW-29
MW-29A
MW-30
MW-36
MW-37
Well ID

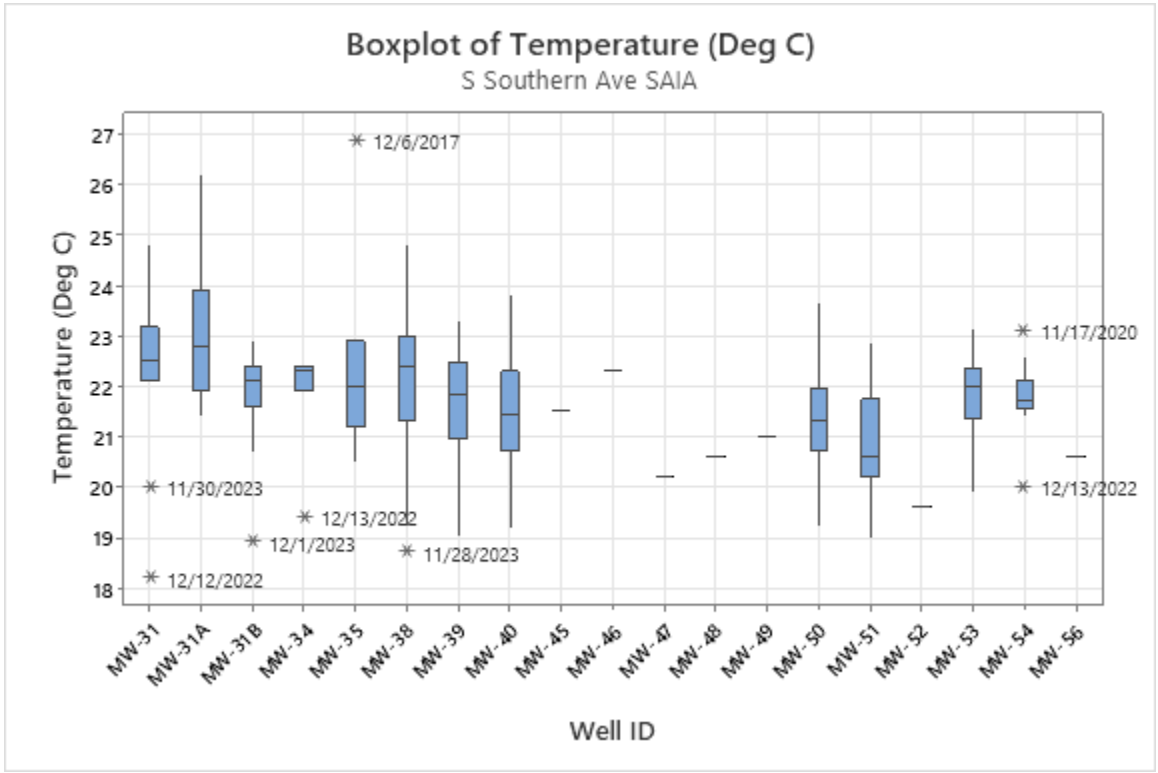

Boxplot of Dissolved Oxygen (mg/L)
S Southern Ave SAIA
Dissolved Oxygen (mg/L)
Well ID
11/19/2024
11/19/2024
11/28/2023
12/16/2014
12/19/2022
12/10/2013
12/5/2019
6/12/2012
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56

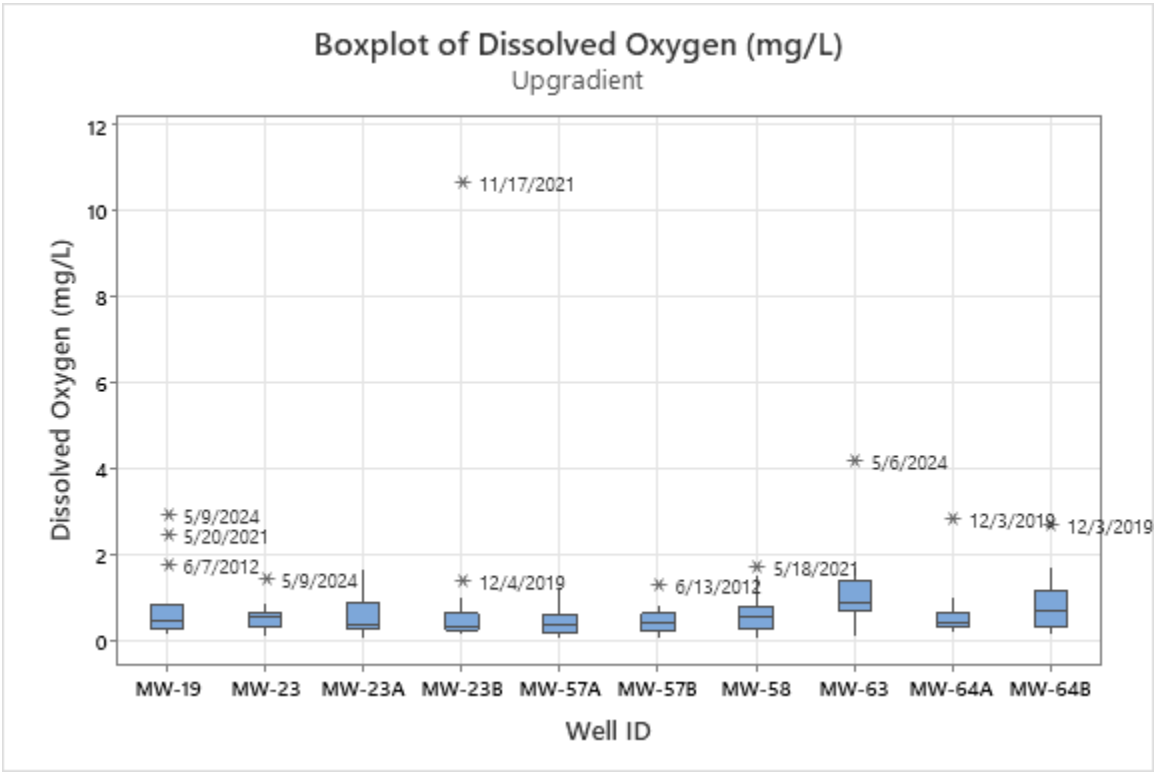

Boxplot of Oxidation Reduction Potential
S Southern Ave SAIA
Oxidation Reduction Potential
Well ID
11/29/2016
11/29/2016
11/29/2016
11/28/2023
12/5/2019
12/10/2013
12/10/2013
11/18/2021
11/16/2021
11/30/2023
12/10/2013
6/7/2012
6/5/2018
6/4/2018
6/8/2012
6/8/2012
12/19/2022
12/13/2012
12/13/2012
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56

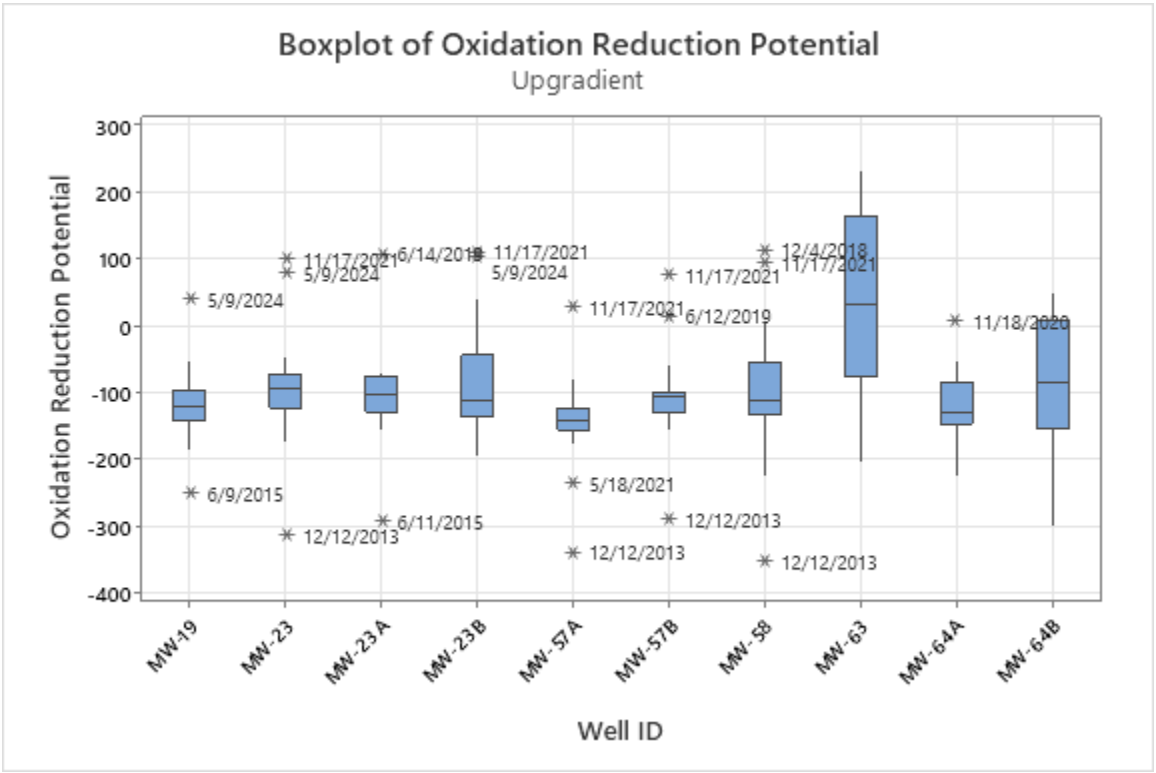

Boxplot of Specific Electrical Conductance
S Southern Ave SAIA
Specific Electrical Conductance
8
7
6
5
4
3
2
1
0
12/19/2022
12/1/2023
11/28/2023
11/19/2024
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56
Well ID

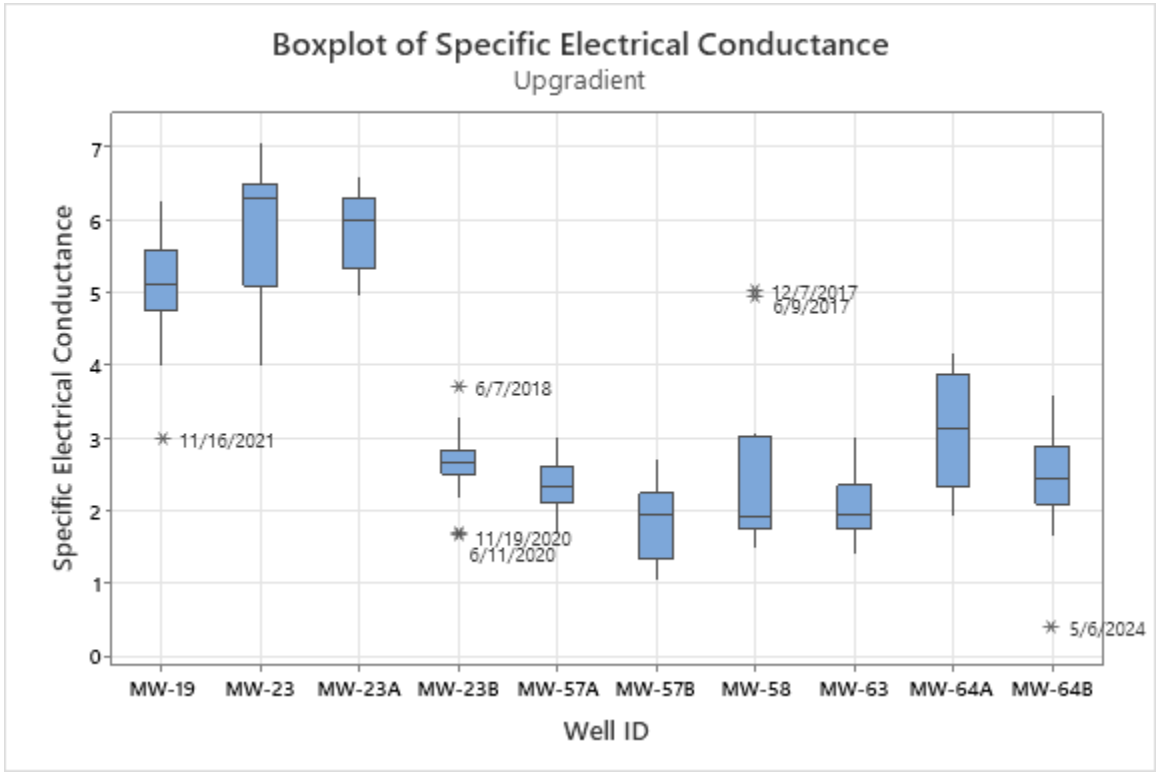

Boxplot of pH
S Southern Ave SAIA
pH
8.5
8.0
7.5
7.0
6.5
12/19/2022
6/5/2018
12/5/2017
11/19/2024
12/1/2023
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56
Well ID

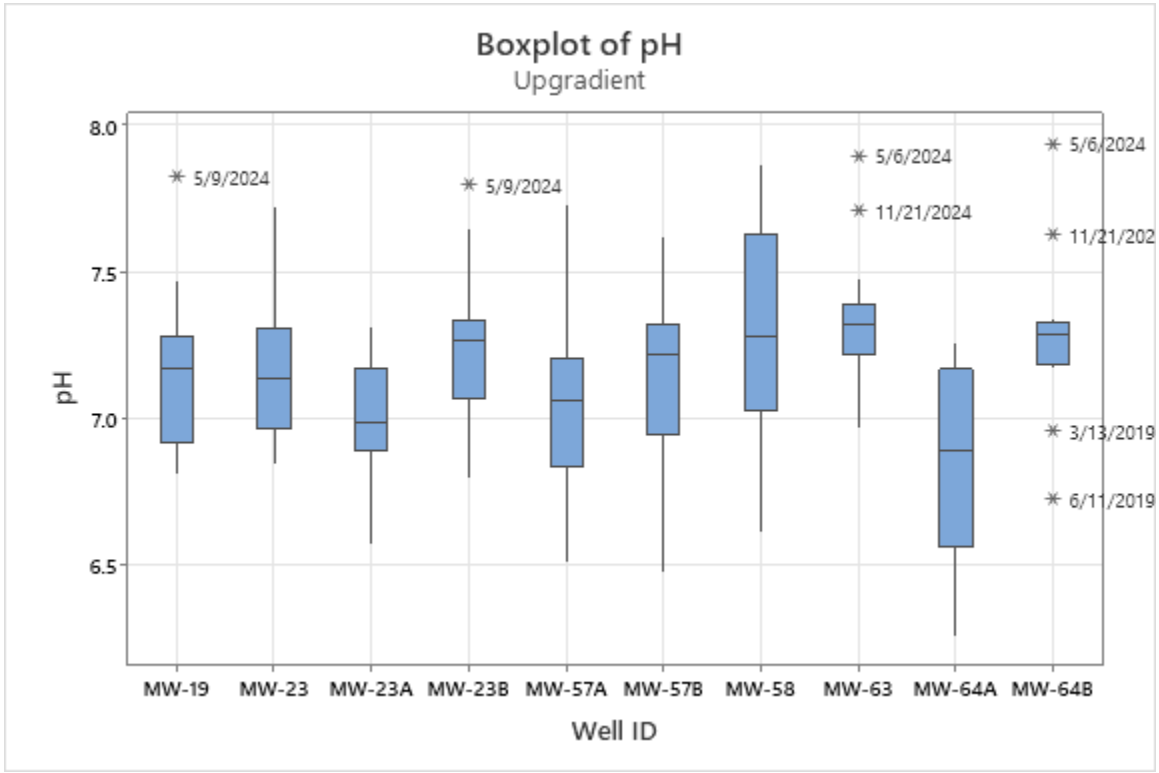

Boxplot of Turbidity (NTU)
S Southern Ave SAIA
Turbidity (NTU)
1000
800
600
400
200
0
12/12/2022
6/12/2012
12/13/2022
11/17/2020
12/5/2018
12/19/2022
12/4/2019
12/13/2022
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56
Well ID

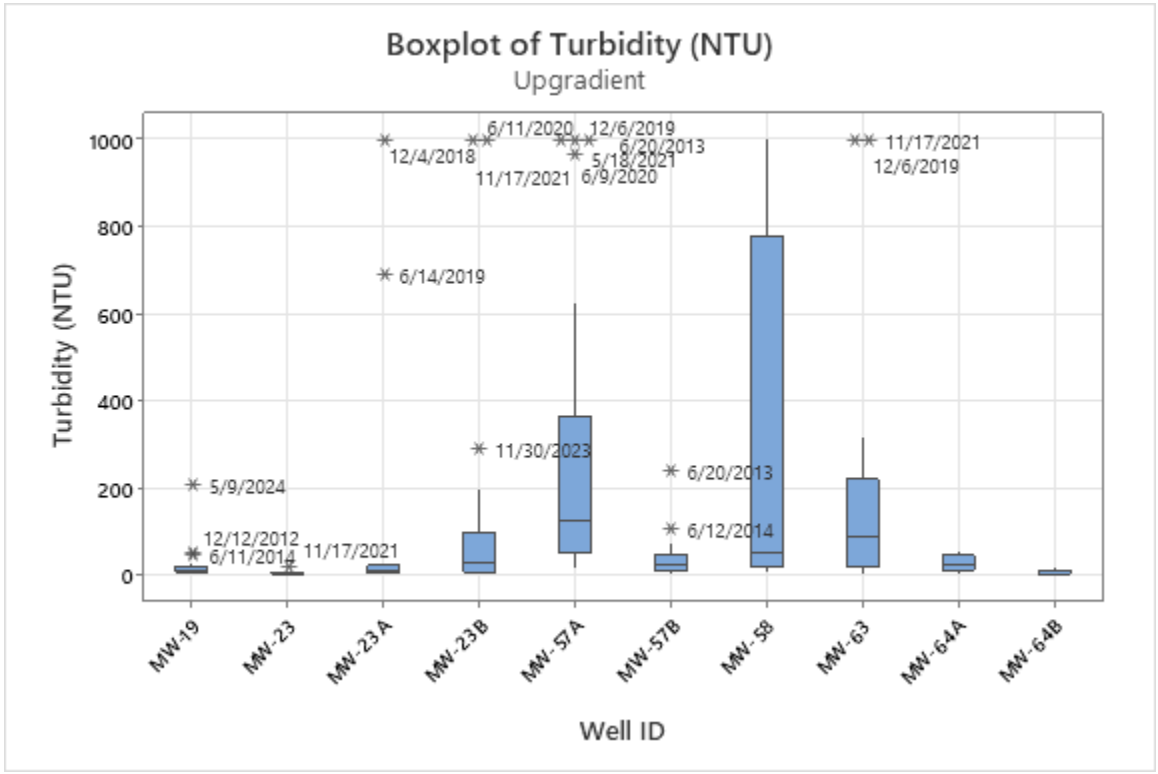

Boxplot of Temperature (Deg C)
S Southern Ave SAIA
Temperature (Deg C)
27
26
25
24
23
22
21
20
19
18
12/6/2017
11/17/2020
11/30/2023
12/13/2022
12/1/2023
11/28/2023
12/12/2022
12/13/2022
MW-31
MW-31A
MW-31B
MW-34
MW-35
MW-38
MW-39
MW-40
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54
MW-56
Well ID

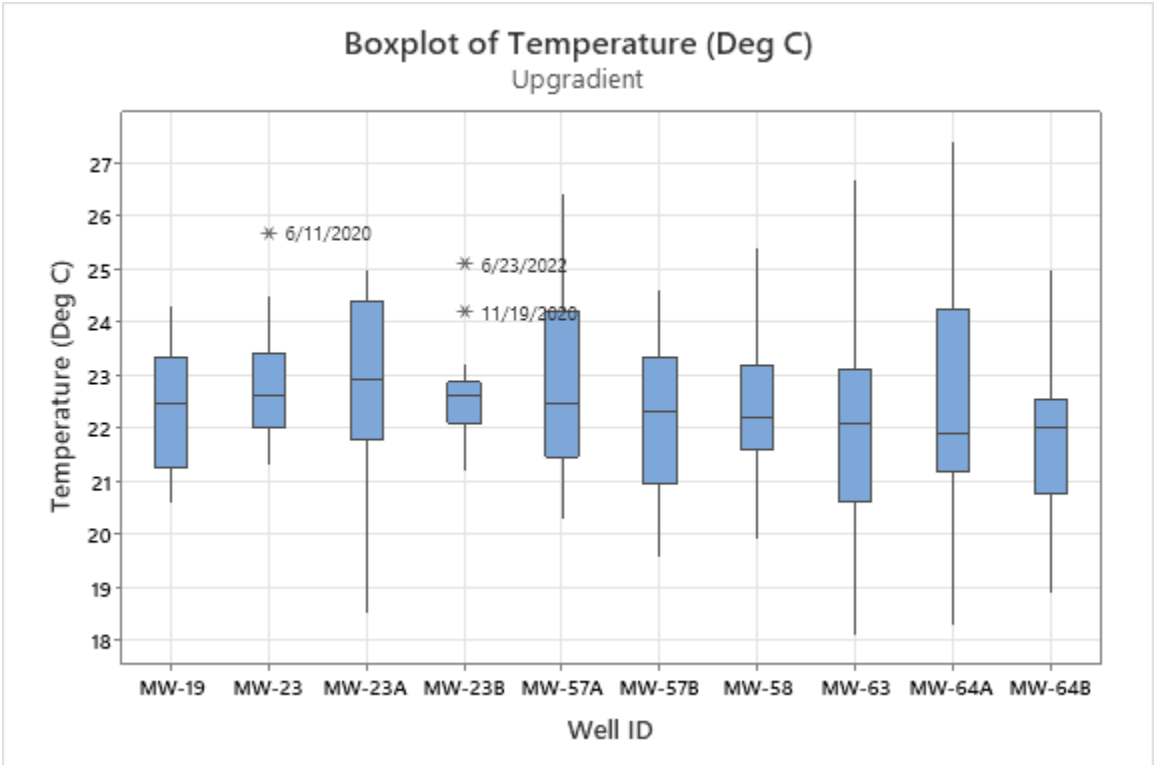

Boxplot of Dissolved Oxygen (mg/L)
Upgradient
Dissolved Oxygen (mg/L)
12
10
8
6
4
2
0
11/17/2021
5/6/2024
5/9/2024
5/20/2021
6/7/2012
5/9/2024
12/4/2019
6/13/2012
5/18/2021
12/3/2019
12/3/2019
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID


Boxplot of Oxidation Reduction Potential
Upgradient
Oxidation Reduction Potential
300
200
100
0
-100
-200
-300
-400
5/9/2024
11/17/2021
5/9/2024
6/14/2018
11/17/2021
5/9/2024
11/17/2021
6/12/2019
12/4/2018
11/17/2021
11/18/2020
6/9/2015
12/12/2013
6/11/2015
5/18/2021
12/12/2013
12/12/2013
12/12/2013
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID


Boxplot of Specific Electrical Conductance
Upgradient
Specific Electrical Conductance
0
1
2
3
4
5
6
7
11/16/2021
6/7/2018
11/19/2020
6/11/2020
12/7/2017
6/9/2017
5/6/2024
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID


Boxplot of pH
Upgradient
pH
6.5
7.0
7.5
8.0
5/9/2024
5/9/2024
5/6/2024
11/21/2024
5/6/2024
11/21/202
3/13/2019
6/11/2019
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID


Boxplot of Turbidity (NTU)
Upgradient
Turbidity (NTU)
1000
800
600
400
200
0
6/11/2020
12/6/2019
12/4/2018
6/20/2013
5/18/2021
11/17/2021
6/9/2020
11/17/2021
12/6/2019
6/14/2019
11/30/2023
5/9/2024
6/20/2013
12/12/2012
6/11/2014
11/17/2021
6/12/2014
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID


Boxplot of Temperature (Deg C)
Upgradient
Temperature (Deg C)
27
26
25
24
23
22
21
20
19
18
6/11/2020
6/23/2022
11/19/2020
MW-19
MW-23
MW-23A
MW-23B
MW-57A
MW-57B
MW-58
MW-63
MW-64A
MW-64B
Well ID

APPENDIX E
Laboratory Analytical Reports

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum GW - South Gate / 130072-025

A874670 / 4K20017

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/20/24 16:59 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
QC01-111924	4K20017-01	Water	10	11/19/24 08:00	11/20/24 16:59
QC02-111924	4K20017-02	Water	10	11/19/24 08:38	11/20/24 16:59
QC03-111924	4K20017-03	Water	10	11/19/24 08:48	11/20/24 16:59
QC04-111924	4K20017-04	Water	10	11/19/24 13:55	11/20/24 16:59
QC05-111924	4K20017-05	Water	10	11/19/24 14:20	11/20/24 16:59
QC06-111924	4K20017-06	Water	10	11/19/24 15:00	11/20/24 16:59
MW-37-111924	4K20017-07	Water	10	11/19/24 08:33	11/20/24 16:59
MW-36-111924	4K20017-08	Water	10	11/19/24 10:05	11/20/24 16:59
MW-50-111924	4K20017-09	Water	10	11/19/24 10:56	11/20/24 16:59
MW-51-111924	4K20017-10	Water	10	11/19/24 12:16	11/20/24 16:59
MW-4-111924	4K20017-11	Water	10	11/19/24 13:23	11/20/24 16:59
MW-59C-111924	4K20017-12	Water	10	11/19/24 14:23	11/20/24 16:59
MW-2C-111924	4K20017-13	Water	10	11/19/24 14:56	11/20/24 16:59
MW-2B-111924	4K20017-14	Water	10	11/19/24 15:25	11/20/24 16:59
MW-55R-111924	4K20017-15	Water	10	11/19/24 08:43	11/20/24 16:59
MW-39-111924	4K20017-16	Water	10	11/19/24 09:46	11/20/24 16:59
MW-40-111924	4K20017-17	Water	10	11/19/24 10:46	11/20/24 16:59
MW-38-111924	4K20017-18	Water	10	11/19/24 11:36	11/20/24 16:59
MW-53-111924	4K20017-19	Water	10	11/19/24 12:18	11/20/24 16:59

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-54-111924	4K20017-20	Water	10	11/19/24 13:02	11/20/24 16:59
MW-04B-111924	4K20017-21	Water	10	11/19/24 13:50	11/20/24 16:59
MW-20B-111924	4K20017-22	Water	10	11/19/24 15:05	11/20/24 16:59
8270CM 1,4-Dioxane Only					
QC02-111924	4K20017-02	Water	10	11/19/24 08:38	11/20/24 16:59
QC03-111924	4K20017-03	Water	10	11/19/24 08:48	11/20/24 16:59
QC04-111924	4K20017-04	Water	10	11/19/24 13:55	11/20/24 16:59
QC05-111924	4K20017-05	Water	10	11/19/24 14:20	11/20/24 16:59
QC06-111924	4K20017-06	Water	10	11/19/24 15:00	11/20/24 16:59
MW-37-111924	4K20017-07	Water	10	11/19/24 08:33	11/20/24 16:59
MW-36-111924	4K20017-08	Water	10	11/19/24 10:05	11/20/24 16:59
MW-50-111924	4K20017-09	Water	10	11/19/24 10:56	11/20/24 16:59
MW-51-111924	4K20017-10	Water	10	11/19/24 12:16	11/20/24 16:59
MW-4-111924	4K20017-11	Water	10	11/19/24 13:23	11/20/24 16:59
MW-59C-111924	4K20017-12	Water	10	11/19/24 14:23	11/20/24 16:59
MW-2C-111924	4K20017-13	Water	10	11/19/24 14:56	11/20/24 16:59
MW-2B-111924	4K20017-14	Water	10	11/19/24 15:25	11/20/24 16:59
MW-55R-111924	4K20017-15	Water	10	11/19/24 08:43	11/20/24 16:59
MW-39-111924	4K20017-16	Water	10	11/19/24 09:46	11/20/24 16:59
MW-40-111924	4K20017-17	Water	10	11/19/24 10:46	11/20/24 16:59

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-38-111924	4K20017-18	Water	10	11/19/24 11:36	11/20/24 16:59
MW-53-111924	4K20017-19	Water	10	11/19/24 12:18	11/20/24 16:59
MW-54-111924	4K20017-20	Water	10	11/19/24 13:02	11/20/24 16:59
MW-04B-111924	4K20017-21	Water	10	11/19/24 13:50	11/20/24 16:59
MW-20B-111924	4K20017-22	Water	10	11/19/24 15:05	11/20/24 16:59
Methane, Ethane, Ethene Dissolved					
QC02-111924	4K20017-02	Water	10	11/19/24 08:38	11/20/24 16:59
QC04-111924	4K20017-04	Water	10	11/19/24 13:55	11/20/24 16:59
MW-37-111924	4K20017-07	Water	10	11/19/24 08:33	11/20/24 16:59
MW-51-111924	4K20017-10	Water	10	11/19/24 12:16	11/20/24 16:59
MW-40-111924	4K20017-17	Water	10	11/19/24 10:46	11/20/24 16:59
MW-53-111924	4K20017-19	Water	10	11/19/24 12:18	11/20/24 16:59
MW-54-111924	4K20017-20	Water	10	11/19/24 13:02	11/20/24 16:59
MW-04B-111924	4K20017-21	Water	10	11/19/24 13:50	11/20/24 16:59

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Analyzed:	12/02/24	12/02/24	12/02/24	12/02/24		
AA ID No:	4K20017-02	4K20017-03	4K20017-04	4K20017-05		
Client ID No:	QC02-111924	QC03-111924	QC04-111924	QC05-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**2.0**	<0.50	**2.4**	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	126%	155% [5]	146%	148%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K20017-06	4K20017-07	4K20017-08	4K20017-09		
Client ID No:	QC06-111924	MW-37-111924	MW-36-111924	MW-50-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	<0.50	<0.50	<0.50	**4.8**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	147%	113%	119%	114%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K20017-10	4K20017-11	4K20017-12	4K20017-13		
Client ID No:	MW-51-111924	MW-4-111924	MW-59C-111924	MW-2C-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**9.4**	<0.50	<0.50	<0.50	0.50	1.0
Surrogates						**%REC Limits**
1,4-Dioxane-d8	95.9%	99.5%	118%	106%		50-150

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K20017-14	4K20017-15	4K20017-16	4K20017-17		
Client ID No:	MW-2B-111924	MW-55R-111924	MW-39-111924	MW-40-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**4.4**	<0.50	**10**	**17**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	112%	97.1%	101%	108%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K20017-18	4K20017-19	4K20017-20	4K20017-21		
Client ID No:	MW-38-111924	MW-53-111924	MW-54-111924	MW-04B-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**4.0**	<0.50	**4.6**	**3.0**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	101%	99.0%	104%	98.5%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/19/24		
Date Prepared:	11/26/24		
Date Analyzed:	12/03/24		
AA ID No:	4K20017-22		
Client ID No:	MW-20B-111924		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)			
1,4-Dioxane	**4.0**	0.50	1.0

Surrogates		**%REC Limits**
1,4-Dioxane-d8	126%	50-150

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/26/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-01	4K20017-02	4K20017-03	4K20017-04		
Client ID No:	QC01-111924	QC02-111924	QC03-111924	QC04-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	**0.73**	<0.40	**8.5**	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.95 [1]**	**0.23 J [1]**	**0.54 [1]**	**0.21 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/26/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-01	4K20017-02	4K20017-03	4K20017-04		
Client ID No:	QC01-111924	QC02-111924	QC03-111924	QC04-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	**0.33 J**	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	**1.6**	<0.20	**3.3**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	**1.4**	<0.30	**75**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	**2.7**	<0.30	**29**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	**0.40 J**	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/26/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-01	4K20017-02	4K20017-03	4K20017-04		
Client ID No:	QC01-111924	QC02-111924	QC03-111924	QC04-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	**0.95**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	**27**	<0.40	**17**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	91.4%	97.8%	101%	99.1%		80-129
Dibromofluoromethane	90.2%	106%	106%	103%		68-137
Toluene-d8	96.6%	98.5%	99.6%	99.8%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-05	4K20017-06	4K20017-07	4K20017-08		
Client ID No:	QC05-111924	QC06-111924	MW-37-111924	MW-36-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	**0.93**	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	**0.22 J [1]**	**0.28 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-05	4K20017-06	4K20017-07	4K20017-08		
Client ID No:	QC05-111924	QC06-111924	MW-37-111924	MW-36-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	**0.35 J**	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	<0.20	**1.7**	**2.6**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	<0.30	**2.0**	**13**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	<0.30	**3.4**	**3.1**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	**0.50**	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/25/24	11/25/24	11/25/24		
AA ID No:	4K20017-05	4K20017-06	4K20017-07	4K20017-08		
Client ID No:	QC05-111924	QC06-111924	MW-37-111924	MW-36-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	**0.61**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	<0.40	**34**	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	98.1%	99.1%	99.3%	101%		80-129
Dibromofluoromethane	102%	110%	106%	104%		68-137
Toluene-d8	99.3%	98.6%	102%	101%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/26/24	11/25/24	11/25/24		
AA ID No:	4K20017-09	4K20017-10	4K20017-11	4K20017-12		
Client ID No:	MW-50-111924	MW-51-111924	MW-4-111924	MW-59C-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	**0.26 J [1]**	<0.20	**0.40 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/26/24	11/25/24	11/25/24		
AA ID No:	4K20017-09	4K20017-10	4K20017-11	4K20017-12		
Client ID No:	MW-50-111924	MW-51-111924	MW-4-111924	MW-59C-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**1.2**	**0.61**	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**1.9**	**23**	**2.1**	**1.2**	0.20	0.50
cis-1,2-Dichloroethylene	**230**	**51**	**15**	<0.30	0.30	0.50
1,1-Dichloroethylene	**0.85**	**1.7**	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**10**	**4.7**	**2.8**	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/25/24	11/25/24		
Date Analyzed:	11/25/24	11/26/24	11/25/24	11/25/24		
AA ID No:	4K20017-09	4K20017-10	4K20017-11	4K20017-12		
Client ID No:	MW-50-111924	MW-51-111924	MW-4-111924	MW-59C-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.44 J**	<0.30	**0.96**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**8.3**	**3.6**	**0.66**	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	99.8%	93.2%	105%	102%		80-129
Dibromofluoromethane	97.5%	93.5%	106%	107%		68-137
Toluene-d8	104%	98.5%	102%	103%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	11/25/24	11/26/24	11/26/24	11/26/24		
AA ID No:	4K20017-13	4K20017-14	4K20017-15	4K20017-16		
Client ID No:	MW-2C-111924	MW-2B-111924	MW-55R-111924	MW-39-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	**11**	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.26 J [1]**	<0.20	**0.54 [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	11/25/24	11/26/24	11/26/24	11/26/24		
AA ID No:	4K20017-13	4K20017-14	4K20017-15	4K20017-16		
Client ID No:	MW-2C-111924	MW-2B-111924	MW-55R-111924	MW-39-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	**1.7**	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	**0.28 J**	<0.20	**1.2**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	**9.4**	<0.30	**29**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	**0.97**	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	**0.34 J**	<0.30	**6.6**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/25/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	11/25/24	11/26/24	11/26/24	11/26/24		
AA ID No:	4K20017-13	4K20017-14	4K20017-15	4K20017-16		
Client ID No:	MW-2C-111924	MW-2B-111924	MW-55R-111924	MW-39-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**0.45 J**	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	<0.40	<0.40	**6.4**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	103%	92.0%	92.7%	93.8%		80-129
Dibromofluoromethane	107%	93.1%	93.1%	91.0%		68-137
Toluene-d8	102%	98.2%	99.3%	98.5%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	12/02/24	11/26/24	11/26/24		
Date Analyzed:	11/26/24	12/02/24	11/26/24	11/26/24		
AA ID No:	4K20017-17	4K20017-18	4K20017-19	4K20017-20		
Client ID No:	MW-40-111924	MW-38-111924	MW-53-111924	MW-54-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	12/02/24	11/26/24	11/26/24		
Date Analyzed:	11/26/24	12/02/24	11/26/24	11/26/24		
AA ID No:	4K20017-17	4K20017-18	4K20017-19	4K20017-20		
Client ID No:	MW-40-111924	MW-38-111924	MW-53-111924	MW-54-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**1.8**	**0.50**	<0.20	**0.70**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.1**	**0.89**	<0.20	**0.57**	0.20	0.50
cis-1,2-Dichloroethylene	**16**	**15**	<0.30	**3.3**	0.30	0.50
1,1-Dichloroethylene	**0.66**	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**3.0**	**4.6**	<0.30	**2.7**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	12/02/24	11/26/24	11/26/24		
Date Analyzed:	11/26/24	12/02/24	11/26/24	11/26/24		
AA ID No:	4K20017-17	4K20017-18	4K20017-19	4K20017-20		
Client ID No:	MW-40-111924	MW-38-111924	MW-53-111924	MW-54-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**0.50**	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**11**	<0.40	<0.40	**15**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	92.5%	93.4%	92.8%	94.9%		80-129
Dibromofluoromethane	92.7%	97.2%	94.5%	96.0%		68-137
Toluene-d8	100%	98.7%	100%	98.9%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/26/24		
Date Analyzed:	11/27/24	11/27/24		
AA ID No:	4K20017-21	4K20017-22		
Client ID No:	MW-04B-111924	MW-20B-111924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**7.8**	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**1.1 [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/26/24		
Date Analyzed:	11/27/24	11/27/24		
AA ID No:	4K20017-21	4K20017-22		
Client ID No:	MW-04B-111924	MW-20B-111924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	<0.20	**0.93**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.7**	**1.2**	0.20	0.50
cis-1,2-Dichloroethylene	**67**	**1.7**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**26**	**0.98**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/26/24		
Date Analyzed:	11/27/24	11/27/24		
AA ID No:	4K20017-21	4K20017-22		
Client ID No:	MW-04B-111924	MW-20B-111924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.91**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**16**	**9.0**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	95.0%	95.2%		80-129
Dibromofluoromethane	94.4%	95.4%		68-137
Toluene-d8	99.0%	99.0%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	Dissolved Gases by RSK-175M	**Units:**	ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	11/26/24	11/26/24	11/26/24	11/26/24		
AA ID No:	4K20017-02	4K20017-04	4K20017-07	4K20017-10		
Client ID No:	QC02-111924	QC04-111924	MW-37-111924	MW-51-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
Methane, Ethane, Ethene Dissolved (RSK-175M)						
Methane	**14**	**41**	**39**	**9.8**	2.0	2.0
Ethane	<2.0	<2.0	<2.0	<2.0	2.0	2.0
Ethylene	<2.0	<2.0	<2.0	<2.0	2.0	2.0

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: Dissolved Gases by RSK-175M

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/19/24	11/19/24	11/19/24	11/19/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	11/26/24	11/26/24	11/26/24	11/26/24		
AA ID No:	4K20017-17	4K20017-19	4K20017-20	4K20017-21		
Client ID No:	MW-40-111924	MW-53-111924	MW-54-111924	MW-04B-111924		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
Methane, Ethane, Ethene Dissolved (RSK-175M)						
Methane	**120**	<2.0	**15**	**74**	2.0	2.0
Ethane	<2.0	<2.0	<2.0	<2.0	2.0	2.0
Ethylene	<2.0	<2.0	<2.0	<2.0	2.0	2.0

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2212 - EPA 3510C_MS										
Blank (B4K2212-BLK1)				Prepared: 11/22/24 Analyzed: 12/02/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*321*		*ug/L*	*200*		*160*	*50-150*			
LCS (B4K2212-BS1)				Prepared: 11/22/24 Analyzed: 12/02/24						
1,4-Dioxane	**32.0**	0.50	ug/L	40.0		80.0	75-125			
Surrogate: 1,4-Dioxane-d8	*325*		*ug/L*	*200*		*162*	*50-150*			
LCS Dup (B4K2212-BSD1)				Prepared: 11/22/24 Analyzed: 12/02/24						
1,4-Dioxane	**32.0**	0.50	ug/L	40.0		80.0	75-125	0.00	30	
Surrogate: 1,4-Dioxane-d8	*285*		*ug/L*	*200*		*142*	*50-150*			
Matrix Spike (B4K2212-MS1)		**Source: 4K20017-09**		Prepared: 11/22/24 Analyzed: 12/03/24						
1,4-Dioxane	**34.2**	0.50	ug/L	40.0	4.80	73.5	70-130			
Surrogate: 1,4-Dioxane-d8	*252*		*ug/L*	*200*		*126*	*50-150*			
Matrix Spike Dup (B4K2212-MSD1)		**Source: 4K20017-09**		Prepared: 11/22/24 Analyzed: 12/03/24						
1,4-Dioxane	**33.8**	0.50	ug/L	40.0	4.80	72.5	70-130	1.18	30	
Surrogate: 1,4-Dioxane-d8	*227*		*ug/L*	*200*		*114*	*50-150*			
Batch B4K2646 - EPA 3510C_MS										
Blank (B4K2646-BLK1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*311*		*ug/L*	*200*		*155*	*50-150*			
LCS (B4K2646-BS1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	**30.8**	0.50	ug/L	40.0		77.0	75-125			
Surrogate: 1,4-Dioxane-d8	*340*		*ug/L*	*200*		*170*	*50-150*			
LCS Dup (B4K2646-BSD1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	**31.0**	0.50	ug/L	40.0		77.5	75-125	0.647	30	
Surrogate: 1,4-Dioxane-d8	*300*		*ug/L*	*200*		*150*	*50-150*			
Matrix Spike (B4K2646-MS1)		**Source: 4K21023-02**		Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**33.6**	0.50	ug/L	40.0	3.80	74.5	70-130			
Surrogate: 1,4-Dioxane-d8	*216*		*ug/L*	*200*		*108*	*50-150*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2646 - EPA 3510C_MS										
Matrix Spike Dup (B4K2646-MSD1)	**Source: 4K21023-02**			Prepared: 11/26/24		Analyzed: 12/04/24				
1,4-Dioxane	**32.0**	0.50	ug/L	40.0	3.80	70.5	70-130	4.88	30	
Surrogate: 1,4-Dioxane-d8	*219*		*ug/L*	*200*		*110*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Blank (B4K2530-BLK1)				Prepared & Analyzed: 11/25/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	**0.370**	0.20	ug/L							O-01, J
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Blank (B4K2530-BLK1) Continued				Prepared & Analyzed: 11/25/24						
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Blank (B4K2530-BLK1) Continued				Prepared & Analyzed: 11/25/24						
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.9*		*ug/L*	*50.0*		*97.9*	*80-129*			
Surrogate: Dibromofluoromethane	*53.1*		*ug/L*	*50.0*		*106*	*68-137*			
Surrogate: Toluene-d8	*48.3*		*ug/L*	*50.0*		*96.5*	*83-134*			
LCS (B4K2530-BS1)				Prepared & Analyzed: 11/25/24						
Acetone	**20.0**	7.7	ug/L	20.0		99.8	27-123			J
Benzene	**18.2**	0.40	ug/L	20.0		91.0	60-134			
Bromobenzene	**18.0**	0.40	ug/L	20.0		90.2	70-130			
Bromochloromethane	**17.4**	0.20	ug/L	20.0		86.9	78-121			
Bromodichloromethane	**18.4**	0.40	ug/L	20.0		92.2	74-135			
Bromoform	**20.7**	0.40	ug/L	20.0		103	68-132			
Bromomethane	**20.3**	0.30	ug/L	20.0		101	58-142			
2-Butanone (MEK)	**17.1**	8.6	ug/L	20.0		85.4	62-138			J
tert-Butylbenzene	**18.5**	0.20	ug/L	20.0		92.6	70-130			
n-Butylbenzene	**19.0**	0.20	ug/L	20.0		94.8	70-130			
sec-Butylbenzene	**18.2**	0.20	ug/L	20.0		91.2	84-142			
Carbon Disulfide	**19.0**	0.20	ug/L	20.0		94.8	17-177			
Carbon Tetrachloride	**18.7**	0.30	ug/L	20.0		93.6	66-155			
Chlorobenzene	**18.2**	0.40	ug/L	20.0		91.0	70-130			
Chloroethane	**20.5**	0.40	ug/L	20.0		102	45-166			
Chloroform	**17.4**	0.30	ug/L	20.0		87.0	71-131			
Chloromethane	**20.2**	0.40	ug/L	20.0		101	48-152			
4-Chlorotoluene	**18.1**	0.20	ug/L	20.0		90.3	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
LCS (B4K2530-BS1) Continued				Prepared & Analyzed: 11/25/24						
2-Chlorotoluene	**17.3**	0.20	ug/L	20.0		86.6	70-130			
1,2-Dibromo-3-chloropropane	**19.4**	0.40	ug/L	20.0		96.9	53-145			
Dibromochloromethane	**19.5**	0.40	ug/L	20.0		97.5	72-133			
1,2-Dibromoethane (EDB)	**18.5**	0.40	ug/L	20.0		92.4	79-120			
Dibromomethane	**17.7**	0.40	ug/L	20.0		88.4	68-124			
1,3-Dichlorobenzene	**17.6**	0.40	ug/L	20.0		87.8	70-130			
1,4-Dichlorobenzene	**17.7**	0.30	ug/L	20.0		88.6	70-130			
1,2-Dichlorobenzene	**18.0**	0.30	ug/L	20.0		90.2	70-130			
Dichlorodifluoromethane (R12)	**21.4**	0.40	ug/L	20.0		107	16-148			
1,1-Dichloroethane	**17.3**	0.20	ug/L	20.0		86.3	67-120			
1,2-Dichloroethane (EDC)	**17.8**	0.20	ug/L	20.0		89.0	57-156			
cis-1,2-Dichloroethylene	**17.6**	0.30	ug/L	20.0		88.2	70-124			
1,1-Dichloroethylene	**17.2**	0.40	ug/L	20.0		86.1	50-149			
trans-1,2-Dichloroethylene	**18.1**	0.30	ug/L	20.0		90.4	66-126			
1,3-Dichloropropane	**18.0**	0.40	ug/L	20.0		90.0	79-113			
1,2-Dichloropropane	**17.4**	0.30	ug/L	20.0		86.8	53-139			
2,2-Dichloropropane	**17.6**	0.30	ug/L	20.0		88.2	44-162			
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0		95.8	76-121			
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.0	84-124			
cis-1,3-Dichloropropylene	**18.4**	0.40	ug/L	20.0		92.2	67-127			
Ethylbenzene	**18.5**	0.30	ug/L	20.0		92.6	86-124			
Hexachlorobutadiene	**18.0**	0.50	ug/L	20.0		90.0	76-140			
2-Hexanone (MBK)	**18.0**	8.4	ug/L	20.0		90.0	52-123			J
Isopropylbenzene	**18.4**	0.30	ug/L	20.0		92.2	70-130			
4-Isopropyltoluene	**18.5**	0.30	ug/L	20.0		92.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	**36.2**	1.2	ug/L	40.0		90.5	58-144			
Methylene Chloride	**17.6**	4.4	ug/L	20.0		88.0	50-135			
4-Methyl-2-pentanone (MIBK)	**18.6**	9.8	ug/L	20.0		93.0	49-139			J
Naphthalene	**18.8**	0.40	ug/L	20.0		93.9	74-128			
n-Propylbenzene	**19.1**	0.20	ug/L	20.0		95.3	70-130			
Styrene	**19.0**	0.20	ug/L	20.0		95.0	84-123			
1,1,1,2-Tetrachloroethane	**18.8**	0.30	ug/L	20.0		93.9	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
LCS (B4K2530-BS1) Continued				Prepared & Analyzed: 11/25/24						
1,1,2,2-Tetrachloroethane	**18.6**	0.40	ug/L	20.0		93.0	58-126			
Tetrachloroethylene (PCE)	**17.6**	0.50	ug/L	20.0		87.8	70-130			
Toluene	**17.9**	0.20	ug/L	20.0		89.7	83-118			
1,2,4-Trichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	84-128			
1,2,3-Trichlorobenzene	**17.0**	0.50	ug/L	20.0		85.2	77-134			
1,1,2-Trichloroethane	**18.0**	0.30	ug/L	20.0		90.2	75-115			
1,1,1-Trichloroethane	**18.4**	0.30	ug/L	20.0		92.2	66-158			
Trichloroethylene (TCE)	**17.7**	0.30	ug/L	20.0		88.6	82-128			
Trichlorofluoromethane (R11)	**21.6**	0.40	ug/L	20.0		108	65-137			
1,2,3-Trichloropropane	**17.6**	0.20	ug/L	20.0		88.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.2**	0.30	ug/L	20.0		91.1	62-130			
1,2,4-Trimethylbenzene	**18.1**	0.30	ug/L	20.0		90.6	70-130			
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0		91.1	70-130			
Vinyl chloride	**22.2**	0.40	ug/L	20.0		111	51-151			
o-Xylene	**17.8**	0.30	ug/L	20.0		89.1	70-130			
m,p-Xylenes	**36.4**	0.60	ug/L	40.0		90.9	70-130			
Surrogate: 4-Bromofluorobenzene	*46.2*		*ug/L*	*50.0*		*92.4*	*80-129*			
Surrogate: Dibromofluoromethane	*48.6*		*ug/L*	*50.0*		*97.2*	*68-137*			
Surrogate: Toluene-d8	*47.8*		*ug/L*	*50.0*		*95.7*	*83-134*			
LCS Dup (B4K2530-BSD1)				Prepared & Analyzed: 11/25/24						
Acetone	**24.0**	7.7	ug/L	20.0		120	27-123	18.4	30	J
Benzene	**18.6**	0.40	ug/L	20.0		92.8	60-134	2.01	30	
Bromobenzene	**17.1**	0.40	ug/L	20.0		85.5	70-130	5.29	30	
Bromochloromethane	**17.1**	0.20	ug/L	20.0		85.6	78-121	1.45	30	
Bromodichloromethane	**19.5**	0.40	ug/L	20.0		97.4	74-135	5.38	30	
Bromoform	**19.7**	0.40	ug/L	20.0		98.3	68-132	4.96	30	
Bromomethane	**22.2**	0.30	ug/L	20.0		111	58-142	9.17	30	
2-Butanone (MEK)	**19.0**	8.6	ug/L	20.0		95.1	62-138	10.7	30	J
tert-Butylbenzene	**17.3**	0.20	ug/L	20.0		86.5	70-130	6.81	30	
n-Butylbenzene	**18.6**	0.20	ug/L	20.0		93.2	70-130	1.70	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
LCS Dup (B4K2530-BSD1) Continued				Prepared & Analyzed: 11/25/24						
sec-Butylbenzene	**17.9**	0.20	ug/L	20.0		89.6	84-142	1.82	30	
Carbon Disulfide	**18.8**	0.20	ug/L	20.0		93.8	17-177	0.954	30	
Carbon Tetrachloride	**18.3**	0.30	ug/L	20.0		91.4	66-155	2.32	30	
Chlorobenzene	**17.3**	0.40	ug/L	20.0		86.6	70-130	5.07	30	
Chloroethane	**22.5**	0.40	ug/L	20.0		113	45-166	9.44	30	
Chloroform	**18.4**	0.30	ug/L	20.0		91.8	71-131	5.43	30	
Chloromethane	**21.6**	0.40	ug/L	20.0		108	48-152	6.93	30	
4-Chlorotoluene	**17.8**	0.20	ug/L	20.0		88.8	70-130	1.73	30	
2-Chlorotoluene	**17.1**	0.20	ug/L	20.0		85.4	70-130	1.40	30	
1,2-Dibromo-3-chloropropane	**19.3**	0.40	ug/L	20.0		96.5	53-145	0.414	30	
Dibromochloromethane	**18.4**	0.40	ug/L	20.0		92.2	72-133	5.53	30	
1,2-Dibromoethane (EDB)	**18.4**	0.40	ug/L	20.0		92.1	79-120	0.271	30	
Dibromomethane	**18.7**	0.40	ug/L	20.0		93.6	68-124	5.71	30	
1,3-Dichlorobenzene	**16.6**	0.40	ug/L	20.0		83.2	70-130	5.44	30	
1,4-Dichlorobenzene	**16.9**	0.30	ug/L	20.0		84.6	70-130	4.62	30	
1,2-Dichlorobenzene	**17.3**	0.30	ug/L	20.0		86.6	70-130	4.19	30	
Dichlorodifluoromethane (R12)	**23.0**	0.40	ug/L	20.0		115	16-148	7.48	30	
1,1-Dichloroethane	**17.8**	0.20	ug/L	20.0		89.2	67-120	3.30	30	
1,2-Dichloroethane (EDC)	**19.0**	0.20	ug/L	20.0		95.2	57-156	6.73	30	
cis-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		89.2	70-124	1.07	30	
1,1-Dichloroethylene	**17.2**	0.40	ug/L	20.0		86.0	50-149	0.116	30	
trans-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		89.2	66-126	1.34	30	
1,3-Dichloropropane	**18.0**	0.40	ug/L	20.0		89.8	79-113	0.167	30	
1,2-Dichloropropane	**19.1**	0.30	ug/L	20.0		95.4	53-139	9.45	30	
2,2-Dichloropropane	**17.4**	0.30	ug/L	20.0		87.2	44-162	1.14	30	
trans-1,3-Dichloropropylene	**18.4**	0.30	ug/L	20.0		92.2	76-121	3.72	30	
1,1-Dichloropropylene	**17.8**	0.30	ug/L	20.0		88.8	84-124	1.29	30	
cis-1,3-Dichloropropylene	**18.8**	0.40	ug/L	20.0		94.2	67-127	2.09	30	
Ethylbenzene	**18.2**	0.30	ug/L	20.0		90.8	86-124	1.96	30	
Hexachlorobutadiene	**16.2**	0.50	ug/L	20.0		81.1	76-140	10.5	30	
2-Hexanone (MBK)	**19.6**	8.4	ug/L	20.0		98.0	52-123	8.46	30	J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130	2.03	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
LCS Dup (B4K2530-BSD1) Continued				Prepared & Analyzed: 11/25/24						
4-Isopropyltoluene	**17.6**	0.30	ug/L	20.0		87.8	70-130	5.32	30	
Methyl-tert-Butyl Ether (MTBE)	**39.9**	1.2	ug/L	40.0		99.8	58-144	9.78	30	
Methylene Chloride	**18.2**	4.4	ug/L	20.0		90.9	50-135	3.24	30	
4-Methyl-2-pentanone (MIBK)	**20.4**	9.8	ug/L	20.0		102	49-139	9.18	30	
Naphthalene	**19.3**	0.40	ug/L	20.0		96.4	74-128	2.63	30	
n-Propylbenzene	**18.8**	0.20	ug/L	20.0		93.8	70-130	1.64	30	
Styrene	**18.0**	0.20	ug/L	20.0		90.2	84-123	5.18	30	
1,1,1,2-Tetrachloroethane	**17.7**	0.30	ug/L	20.0		88.6	70-130	5.81	30	
1,1,2,2-Tetrachloroethane	**19.8**	0.40	ug/L	20.0		99.2	58-126	6.56	30	
Tetrachloroethylene (PCE)	**16.0**	0.50	ug/L	20.0		79.8	70-130	9.60	30	
Toluene	**17.1**	0.20	ug/L	20.0		85.4	83-118	4.91	30	
1,2,4-Trichlorobenzene	**16.9**	0.30	ug/L	20.0		84.5	84-128	4.23	30	
1,2,3-Trichlorobenzene	**16.8**	0.50	ug/L	20.0		84.1	77-134	1.24	30	
1,1,2-Trichloroethane	**18.5**	0.30	ug/L	20.0		92.4	75-115	2.41	30	
1,1,1-Trichloroethane	**18.5**	0.30	ug/L	20.0		92.6	66-158	0.487	30	
Trichloroethylene (TCE)	**17.9**	0.30	ug/L	20.0		89.6	82-128	1.12	30	
Trichlorofluoromethane (R11)	**22.7**	0.40	ug/L	20.0		114	65-137	4.91	30	
1,2,3-Trichloropropane	**19.0**	0.20	ug/L	20.0		95.1	68-123	7.76	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.9**	0.30	ug/L	20.0		94.6	62-130	3.72	30	
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0		90.0	70-130	0.775	30	
1,3,5-Trimethylbenzene	**17.8**	0.20	ug/L	20.0		89.2	70-130	2.11	30	
Vinyl chloride	**23.8**	0.40	ug/L	20.0		119	51-151	7.00	30	
o-Xylene	**17.3**	0.30	ug/L	20.0		86.3	70-130	3.19	30	
m,p-Xylenes	**34.5**	0.60	ug/L	40.0		86.2	70-130	5.39	30	
Surrogate: 4-Bromofluorobenzene	*48.6*		*ug/L*	*50.0*		*97.1*	*80-129*			
Surrogate: Dibromofluoromethane	*51.5*		*ug/L*	*50.0*		*103*	*68-137*			
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*97.8*	*83-134*			
Matrix Spike (B4K2530-MS1)			**Source: 4K20017-09**	Prepared: 11/25/24		Analyzed: 11/26/24				
Acetone	**20.7**	7.7	ug/L	20.0	<50	104	11-169			J
Benzene	**20.4**	0.40	ug/L	20.0	<0.50	102	56-135			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Matrix Spike (B4K2530-MS1) Continued Source: 4K20017-09 Prepared: 11/25/24 Analyzed: 11/26/24										
Bromobenzene	**17.6**	0.40	ug/L	20.0	<0.50	87.8	70-130			
Bromochloromethane	**17.4**	0.20	ug/L	20.0	<0.50	87.0	74-125			
Bromodichloromethane	**20.1**	0.40	ug/L	20.0	<0.50	100	68-144			
Bromoform	**18.9**	0.40	ug/L	20.0	<0.50	94.3	68-151			
Bromomethane	**21.7**	0.30	ug/L	20.0	<0.50	108	54-142			
2-Butanone (MEK)	**17.7**	8.6	ug/L	20.0	<20	88.7	62-145			J
tert-Butylbenzene	**19.0**	0.20	ug/L	20.0	<0.50	95.2	70-130			
n-Butylbenzene	**20.2**	0.20	ug/L	20.0	<0.50	101	70-130			
sec-Butylbenzene	**19.4**	0.20	ug/L	20.0	<0.50	96.8	84-145			
Carbon Disulfide	**22.0**	0.20	ug/L	20.0	<0.50	110	28-151			
Carbon Tetrachloride	**19.9**	0.30	ug/L	20.0	<0.50	99.6	58-164			
Chlorobenzene	**18.4**	0.40	ug/L	20.0	<0.50	91.8	70-130			
Chloroethane	**23.5**	0.40	ug/L	20.0	<0.50	118	42-164			
Chloroform	**19.8**	0.30	ug/L	20.0	<0.50	98.8	65-138			
Chloromethane	**22.7**	0.40	ug/L	20.0	<0.50	114	50-152			
4-Chlorotoluene	**19.1**	0.20	ug/L	20.0	<0.50	95.4	70-130			
2-Chlorotoluene	**18.6**	0.20	ug/L	20.0	<0.50	93.2	70-130			
1,2-Dibromo-3-chloropropane	**20.0**	0.40	ug/L	20.0	<1.0	100	53-161			
Dibromochloromethane	**18.5**	0.40	ug/L	20.0	<0.50	92.6	70-130			
1,2-Dibromoethane (EDB)	**18.6**	0.40	ug/L	20.0	<0.50	93.1	76-130			
Dibromomethane	**19.4**	0.40	ug/L	20.0	<0.50	96.8	62-135			
1,3-Dichlorobenzene	**17.3**	0.40	ug/L	20.0	<0.50	86.6	70-130			
1,4-Dichlorobenzene	**17.2**	0.30	ug/L	20.0	<0.50	86.2	70-130			
1,2-Dichlorobenzene	**17.4**	0.30	ug/L	20.0	<0.50	87.0	70-130			
Dichlorodifluoromethane (R12)	**23.5**	0.40	ug/L	20.0	<0.50	118	17-153			
1,1-Dichloroethane	**20.4**	0.20	ug/L	20.0	1.23	95.9	55-131			
1,2-Dichloroethane (EDC)	**21.2**	0.20	ug/L	20.0	1.94	96.2	52-168			
cis-1,2-Dichloroethylene	**198**	0.30	ug/L	20.0	226	NR	70-130			QM-07
1,1-Dichloroethylene	**19.9**	0.40	ug/L	20.0	0.850	95.0	51-140			
trans-1,2-Dichloroethylene	**28.1**	0.30	ug/L	20.0	10.3	88.8	59-127			
1,3-Dichloropropane	**18.9**	0.40	ug/L	20.0	<0.50	94.4	80-121			
1,2-Dichloropropane	**20.0**	0.30	ug/L	20.0	<0.50	99.9	52-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Matrix Spike (B4K2530-MS1) Continued Source: 4K20017-09 Prepared: 11/25/24 Analyzed: 11/26/24										
2,2-Dichloropropane	**17.6**	0.30	ug/L	20.0	<0.50	87.8	36-168			
trans-1,3-Dichloropropylene	**18.9**	0.30	ug/L	20.0	<0.50	94.4	78-130			
1,1-Dichloropropylene	**19.8**	0.30	ug/L	20.0	<0.50	99.0	76-132			
cis-1,3-Dichloropropylene	**19.6**	0.40	ug/L	20.0	<0.50	98.0	66-130			
Ethylbenzene	**19.6**	0.30	ug/L	20.0	<0.50	98.0	86-128			
Hexachlorobutadiene	**15.8**	0.50	ug/L	20.0	<1.0	78.8	70-130			
2-Hexanone (MBK)	**19.8**	8.4	ug/L	20.0	<20	99.2	52-141			J
Isopropylbenzene	**19.6**	0.30	ug/L	20.0	<0.50	98.0	70-130			
4-Isopropyltoluene	**19.2**	0.30	ug/L	20.0	<1.0	95.8	83-149			
Methyl-tert-Butyl Ether (MTBE)	**37.8**	1.2	ug/L	40.0	<2.0	94.6	56-150			
Methylene Chloride	**23.9**	4.4	ug/L	20.0	<5.0	119	70-130			
4-Methyl-2-pentanone (MIBK)	**18.7**	9.8	ug/L	20.0	<20	93.6	60-148			J
Naphthalene	**17.8**	0.40	ug/L	20.0	<2.0	89.1	70-130			
n-Propylbenzene	**20.4**	0.20	ug/L	20.0	<0.50	102	70-130			
Styrene	**19.0**	0.20	ug/L	20.0	<0.50	94.8	65-141			
1,1,1,2-Tetrachloroethane	**17.7**	0.30	ug/L	20.0	<0.50	88.6	70-130			
1,1,2,2-Tetrachloroethane	**19.4**	0.40	ug/L	20.0	<0.50	97.2	62-134			
Tetrachloroethylene (PCE)	**17.0**	0.50	ug/L	20.0	<0.50	84.9	70-130			
Toluene	**18.8**	0.20	ug/L	20.0	<0.50	94.2	81-123			
1,2,4-Trichlorobenzene	**15.7**	0.30	ug/L	20.0	<0.50	78.3	80-137			QM-07
1,2,3-Trichlorobenzene	**14.8**	0.50	ug/L	20.0	<0.50	74.0	73-144			
1,1,2-Trichloroethane	**19.2**	0.30	ug/L	20.0	<0.50	96.0	76-122			
1,1,1-Trichloroethane	**20.2**	0.30	ug/L	20.0	<0.50	101	62-164			
Trichloroethylene (TCE)	**19.9**	0.30	ug/L	20.0	0.440	97.2	72-136			
Trichlorofluoromethane (R11)	**22.8**	0.40	ug/L	20.0	<0.50	114	59-144			
1,2,3-Trichloropropane	**18.8**	0.20	ug/L	20.0	<0.50	93.9	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**19.1**	0.30	ug/L	20.0	<0.50	95.7	62-126			
1,2,4-Trimethylbenzene	**19.2**	0.30	ug/L	20.0	<0.50	95.8	89-134			
1,3,5-Trimethylbenzene	**19.3**	0.20	ug/L	20.0	<0.50	96.6	70-130			
Vinyl chloride	**30.6**	0.40	ug/L	20.0	8.29	112	54-150			
o-Xylene	**18.2**	0.30	ug/L	20.0	<0.50	91.0	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Matrix Spike (B4K2530-MS1) Continued Source: 4K20017-09 Prepared: 11/25/24 Analyzed: 11/26/24										
m,p-Xylenes	**37.5**	0.60	ug/L	40.0	<1.0	93.7	70-130			
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.0*		*99.8*	*80-129*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.0*		*102*	*68-137*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*83-134*			
Matrix Spike Dup (B4K2530-MSD1) **Source: 4K20017-09** Prepared: 11/25/24 Analyzed: 11/26/24										
Acetone	**26.4**	7.7	ug/L	20.0	<50	132	11-169	24.1	30	J
Benzene	**20.0**	0.40	ug/L	20.0	<0.50	100	56-135	1.98	30	
Bromobenzene	**17.8**	0.40	ug/L	20.0	<0.50	89.1	70-130	1.47	30	
Bromochloromethane	**18.2**	0.20	ug/L	20.0	<0.50	91.2	74-125	4.77	30	
Bromodichloromethane	**21.1**	0.40	ug/L	20.0	<0.50	106	68-144	5.09	30	
Bromoform	**20.3**	0.40	ug/L	20.0	<0.50	102	68-151	7.50	30	
Bromomethane	**24.4**	0.30	ug/L	20.0	<0.50	122	54-142	11.7	30	
2-Butanone (MEK)	**23.3**	8.6	ug/L	20.0	<20	117	62-145	27.2	30	
tert-Butylbenzene	**19.0**	0.20	ug/L	20.0	<0.50	95.0	70-130	0.263	30	
n-Butylbenzene	**20.1**	0.20	ug/L	20.0	<0.50	101	70-130	0.397	30	
sec-Butylbenzene	**19.6**	0.20	ug/L	20.0	<0.50	98.2	84-145	1.44	30	
Carbon Disulfide	**21.1**	0.20	ug/L	20.0	<0.50	105	28-151	4.09	30	
Carbon Tetrachloride	**19.6**	0.30	ug/L	20.0	<0.50	97.8	58-164	1.87	30	
Chlorobenzene	**18.8**	0.40	ug/L	20.0	<0.50	94.2	70-130	2.58	30	
Chloroethane	**24.7**	0.40	ug/L	20.0	<0.50	123	42-164	4.86	30	
Chloroform	**19.8**	0.30	ug/L	20.0	<0.50	98.9	65-138	0.101	30	
Chloromethane	**24.0**	0.40	ug/L	20.0	<0.50	120	50-152	5.53	30	
4-Chlorotoluene	**18.9**	0.20	ug/L	20.0	<0.50	94.7	70-130	0.684	30	
2-Chlorotoluene	**18.8**	0.20	ug/L	20.0	<0.50	93.8	70-130	0.588	30	
1,2-Dibromo-3-chloropropane	**19.8**	0.40	ug/L	20.0	<1.0	98.8	53-161	1.21	30	
Dibromochloromethane	**20.0**	0.40	ug/L	20.0	<0.50	99.8	70-130	7.43	30	
1,2-Dibromoethane (EDB)	**20.2**	0.40	ug/L	20.0	<0.50	101	76-130	7.89	30	
Dibromomethane	**20.8**	0.40	ug/L	20.0	<0.50	104	62-135	6.93	30	
1,3-Dichlorobenzene	**17.5**	0.40	ug/L	20.0	<0.50	87.4	70-130	0.977	30	
1,4-Dichlorobenzene	**17.7**	0.30	ug/L	20.0	<0.50	88.3	70-130	2.46	30	
1,2-Dichlorobenzene	**18.2**	0.30	ug/L	20.0	<0.50	91.2	70-130	4.71	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Matrix Spike Dup (B4K2530-MSD1) Continued		**Source: 4K20017-09**			Prepared: 11/25/24		Analyzed: 11/26/24			
Dichlorodifluoromethane (R12)	**24.3**	0.40	ug/L	20.0	<0.50	122	17-153	3.26	30	
1,1-Dichloroethane	**20.8**	0.20	ug/L	20.0	1.23	98.0	55-131	2.08	30	
1,2-Dichloroethane (EDC)	**23.0**	0.20	ug/L	20.0	1.94	105	52-168	8.33	30	
cis-1,2-Dichloroethylene	**227**	0.30	ug/L	20.0	226	4.00	70-130	13.6	30	QM-07
1,1-Dichloroethylene	**19.0**	0.40	ug/L	20.0	0.850	90.8	51-140	4.37	30	
trans-1,2-Dichloroethylene	**28.7**	0.30	ug/L	20.0	10.3	91.8	59-127	2.15	30	
1,3-Dichloropropane	**20.0**	0.40	ug/L	20.0	<0.50	99.8	80-121	5.66	30	
1,2-Dichloropropane	**20.3**	0.30	ug/L	20.0	<0.50	101	52-142	1.39	30	
2,2-Dichloropropane	**16.8**	0.30	ug/L	20.0	<0.50	84.0	36-168	4.48	30	
trans-1,3-Dichloropropylene	**19.9**	0.30	ug/L	20.0	<0.50	99.6	78-130	5.36	30	
1,1-Dichloropropylene	**19.7**	0.30	ug/L	20.0	<0.50	98.4	76-132	0.608	30	
cis-1,3-Dichloropropylene	**20.9**	0.40	ug/L	20.0	<0.50	105	66-130	6.61	30	
Ethylbenzene	**19.4**	0.30	ug/L	20.0	<0.50	97.1	86-128	0.872	30	
Hexachlorobutadiene	**15.5**	0.50	ug/L	20.0	<1.0	77.3	70-130	1.86	30	
2-Hexanone (MBK)	**21.3**	8.4	ug/L	20.0	<20	107	52-141	7.23	30	
Isopropylbenzene	**19.4**	0.30	ug/L	20.0	<0.50	97.2	70-130	0.717	30	
4-Isopropyltoluene	**19.5**	0.30	ug/L	20.0	<1.0	97.6	83-149	1.86	30	
Methyl-tert-Butyl Ether (MTBE)	**42.6**	1.2	ug/L	40.0	<2.0	106	56-150	11.9	30	
Methylene Chloride	**25.1**	4.4	ug/L	20.0	<5.0	126	70-130	5.06	30	
4-Methyl-2-pentanone (MIBK)	**22.3**	9.8	ug/L	20.0	<20	112	60-148	17.6	30	
Naphthalene	**20.2**	0.40	ug/L	20.0	<2.0	101	70-130	12.5	30	
n-Propylbenzene	**20.2**	0.20	ug/L	20.0	<0.50	101	70-130	0.836	30	
Styrene	**19.0**	0.20	ug/L	20.0	<0.50	94.9	65-141	0.105	30	
1,1,1,2-Tetrachloroethane	**18.4**	0.30	ug/L	20.0	<0.50	92.1	70-130	3.93	30	
1,1,2,2-Tetrachloroethane	**21.2**	0.40	ug/L	20.0	<0.50	106	62-134	8.95	30	
Tetrachloroethylene (PCE)	**16.6**	0.50	ug/L	20.0	<0.50	83.0	70-130	2.20	30	
Toluene	**18.5**	0.20	ug/L	20.0	<0.50	92.4	81-123	1.88	30	
1,2,4-Trichlorobenzene	**17.2**	0.30	ug/L	20.0	<0.50	86.2	80-137	9.60	30	
1,2,3-Trichlorobenzene	**17.2**	0.50	ug/L	20.0	<0.50	86.0	73-144	15.1	30	
1,1,2-Trichloroethane	**20.4**	0.30	ug/L	20.0	<0.50	102	76-122	6.01	30	
1,1,1-Trichloroethane	**19.6**	0.30	ug/L	20.0	<0.50	97.8	62-164	3.27	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2530 - EPA 5030B										
Matrix Spike Dup (B4K2530-MSD1) Continued			**Source: 4K20017-09**	Prepared: 11/25/24		Analyzed: 11/26/24				
Trichloroethylene (TCE)	**19.9**	0.30	ug/L	20.0	0.440	97.4	72-136	0.251	30	
Trichlorofluoromethane (R11)	**24.7**	0.40	ug/L	20.0	<0.50	123	59-144	7.92	30	
1,2,3-Trichloropropane	**20.5**	0.20	ug/L	20.0	<0.50	102	69-135	8.56	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**20.1**	0.30	ug/L	20.0	<0.50	101	62-126	4.99	30	
1,2,4-Trimethylbenzene	**19.2**	0.30	ug/L	20.0	<0.50	95.8	89-134	0.00	30	
1,3,5-Trimethylbenzene	**19.2**	0.20	ug/L	20.0	<0.50	96.2	70-130	0.415	30	
Vinyl chloride	**33.1**	0.40	ug/L	20.0	8.29	124	54-150	7.88	30	
o-Xylene	**18.5**	0.30	ug/L	20.0	<0.50	92.4	70-130	1.47	30	
m,p-Xylenes	**37.0**	0.60	ug/L	40.0	<1.0	92.4	70-130	1.34	30	
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*98.9*	*80-129*			
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.0*		*106*	*68-137*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.7*	*83-134*			
Batch B4K2643 - EPA 5030B										
Blank (B4K2643-BLK1)				Prepared & Analyzed: 11/26/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
Blank (B4K2643-BLK1) Continued				Prepared & Analyzed: 11/26/24						
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
Blank (B4K2643-BLK1) Continued				Prepared & Analyzed: 11/26/24						
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.4*		*ug/L*	*50.0*		*96.9*	*80-129*			
Surrogate: Dibromofluoromethane	*49.2*		*ug/L*	*50.0*		*98.5*	*68-137*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*98.9*	*83-134*			
LCS (B4K2643-BS1)				Prepared & Analyzed: 11/26/24						
Acetone	**23.6**	7.7	ug/L	20.0		118	27-123			J
Benzene	**18.2**	0.40	ug/L	20.0		91.0	60-134			
Bromobenzene	**16.4**	0.40	ug/L	20.0		81.8	70-130			
Bromochloromethane	**16.4**	0.20	ug/L	20.0		82.2	78-121			
Bromodichloromethane	**18.2**	0.40	ug/L	20.0		91.1	74-135			
Bromoform	**17.4**	0.40	ug/L	20.0		86.8	68-132			
Bromomethane	**22.3**	0.30	ug/L	20.0		111	58-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
LCS (B4K2643-BS1) Continued				Prepared & Analyzed: 11/26/24						
2-Butanone (MEK)	**17.0**	8.6	ug/L	20.0		84.8	62-138			J
tert-Butylbenzene	**17.0**	0.20	ug/L	20.0		84.9	70-130			
n-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.4	70-130			
sec-Butylbenzene	**17.3**	0.20	ug/L	20.0		86.5	84-142			
Carbon Disulfide	**19.3**	0.20	ug/L	20.0		96.6	17-177			
Carbon Tetrachloride	**17.9**	0.30	ug/L	20.0		89.7	66-155			
Chlorobenzene	**16.8**	0.40	ug/L	20.0		83.8	70-130			
Chloroethane	**21.8**	0.40	ug/L	20.0		109	45-166			
Chloroform	**17.4**	0.30	ug/L	20.0		87.0	71-131			
Chloromethane	**20.6**	0.40	ug/L	20.0		103	48-152			
4-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.0	70-130			
2-Chlorotoluene	**16.4**	0.20	ug/L	20.0		82.2	70-130			
1,2-Dibromo-3-chloropropane	**18.7**	0.40	ug/L	20.0		93.5	53-145			
Dibromochloromethane	**17.0**	0.40	ug/L	20.0		85.0	72-133			
1,2-Dibromoethane (EDB)	**16.8**	0.40	ug/L	20.0		84.0	79-120			
Dibromomethane	**17.4**	0.40	ug/L	20.0		87.2	68-124			
1,3-Dichlorobenzene	**16.1**	0.40	ug/L	20.0		80.4	70-130			
1,4-Dichlorobenzene	**16.4**	0.30	ug/L	20.0		82.0	70-130			
1,2-Dichlorobenzene	**16.7**	0.30	ug/L	20.0		83.5	70-130			
Dichlorodifluoromethane (R12)	**20.9**	0.40	ug/L	20.0		104	16-148			
1,1-Dichloroethane	**18.0**	0.20	ug/L	20.0		90.0	67-120			
1,2-Dichloroethane (EDC)	**17.9**	0.20	ug/L	20.0		89.4	57-156			
cis-1,2-Dichloroethylene	**17.3**	0.30	ug/L	20.0		86.3	70-124			
1,1-Dichloroethylene	**17.4**	0.40	ug/L	20.0		86.8	50-149			
trans-1,2-Dichloroethylene	**17.7**	0.30	ug/L	20.0		88.6	66-126			
1,3-Dichloropropane	**16.5**	0.40	ug/L	20.0		82.6	79-113			
1,2-Dichloropropane	**17.7**	0.30	ug/L	20.0		88.6	53-139			
2,2-Dichloropropane	**17.4**	0.30	ug/L	20.0		86.9	44-162			
trans-1,3-Dichloropropylene	**17.3**	0.30	ug/L	20.0		86.6	76-121			
1,1-Dichloropropylene	**17.6**	0.30	ug/L	20.0		88.2	84-124			
cis-1,3-Dichloropropylene	**18.2**	0.40	ug/L	20.0		90.8	67-127			
Ethylbenzene	**17.5**	0.30	ug/L	20.0		87.6	86-124			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
LCS (B4K2643-BS1) Continued				Prepared & Analyzed: 11/26/24						
Hexachlorobutadiene	**16.7**	0.50	ug/L	20.0		83.7	76-140			
2-Hexanone (MBK)	**17.2**	8.4	ug/L	20.0		86.2	52-123			J
Isopropylbenzene	**17.3**	0.30	ug/L	20.0		86.7	70-130			
4-Isopropyltoluene	**17.4**	0.30	ug/L	20.0		87.0	70-130			
Methyl-tert-Butyl Ether (MTBE)	**36.9**	1.2	ug/L	40.0		92.3	58-144			
Methylene Chloride	**17.1**	4.4	ug/L	20.0		85.4	50-135			
4-Methyl-2-pentanone (MIBK)	**18.4**	9.8	ug/L	20.0		91.8	49-139			J
Naphthalene	**18.4**	0.40	ug/L	20.0		92.0	74-128			
n-Propylbenzene	**18.1**	0.20	ug/L	20.0		90.5	70-130			
Styrene	**17.4**	0.20	ug/L	20.0		86.8	84-123			
1,1,1,2-Tetrachloroethane	**16.5**	0.30	ug/L	20.0		82.3	70-130			
1,1,2,2-Tetrachloroethane	**17.5**	0.40	ug/L	20.0		87.5	58-126			
Tetrachloroethylene (PCE)	**15.8**	0.50	ug/L	20.0		78.9	70-130			
Toluene	**16.6**	0.20	ug/L	20.0		83.0	83-118			
1,2,4-Trichlorobenzene	**16.8**	0.30	ug/L	20.0		84.0	84-128			
1,2,3-Trichlorobenzene	**17.4**	0.50	ug/L	20.0		87.2	77-134			
1,1,2-Trichloroethane	**16.7**	0.30	ug/L	20.0		83.5	75-115			
1,1,1-Trichloroethane	**18.1**	0.30	ug/L	20.0		90.3	66-158			
Trichloroethylene (TCE)	**17.7**	0.30	ug/L	20.0		88.5	82-128			
Trichlorofluoromethane (R11)	**19.3**	0.40	ug/L	20.0		96.4	65-137			
1,2,3-Trichloropropane	**16.8**	0.20	ug/L	20.0		84.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.4**	0.30	ug/L	20.0		92.2	62-130			
1,2,4-Trimethylbenzene	**17.3**	0.30	ug/L	20.0		86.6	70-130			
1,3,5-Trimethylbenzene	**17.2**	0.20	ug/L	20.0		86.2	70-130			
Vinyl chloride	**22.8**	0.40	ug/L	20.0		114	51-151			
o-Xylene	**16.4**	0.30	ug/L	20.0		81.8	70-130			
m,p-Xylenes	**33.7**	0.60	ug/L	40.0		84.3	70-130			
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.0*		*96.2*	*80-129*			
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50.0*		*99.7*	*68-137*			
Surrogate: Toluene-d8	*48.7*		*ug/L*	*50.0*		*97.4*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
LCS Dup (B4K2643-BSD1)				Prepared & Analyzed: 11/26/24						
Acetone	**18.6**	7.7	ug/L	20.0		92.9	27-123	23.6	30	J
Benzene	**16.6**	0.40	ug/L	20.0		82.8	60-134	9.44	30	
Bromobenzene	**17.4**	0.40	ug/L	20.0		86.9	70-130	6.11	30	
Bromochloromethane	**16.9**	0.20	ug/L	20.0		84.5	78-121	2.70	30	
Bromodichloromethane	**16.2**	0.40	ug/L	20.0		81.2	74-135	11.4	30	
Bromoform	**20.6**	0.40	ug/L	20.0		103	68-132	17.1	30	
Bromomethane	**17.4**	0.30	ug/L	20.0		86.9	58-142	24.8	30	
2-Butanone (MEK)	**16.8**	8.6	ug/L	20.0		84.2	62-138	0.651	30	J
tert-Butylbenzene	**17.0**	0.20	ug/L	20.0		85.2	70-130	0.294	30	
n-Butylbenzene	**17.4**	0.20	ug/L	20.0		86.8	70-130	4.06	30	
sec-Butylbenzene	**16.8**	0.20	ug/L	20.0		83.9	84-142	3.05	30	QL-03
Carbon Disulfide	**18.5**	0.20	ug/L	20.0		92.3	17-177	4.50	30	
Carbon Tetrachloride	**15.7**	0.30	ug/L	20.0		78.5	66-155	13.3	30	
Chlorobenzene	**17.1**	0.40	ug/L	20.0		85.5	70-130	2.07	30	
Chloroethane	**17.5**	0.40	ug/L	20.0		87.3	45-166	22.2	30	
Chloroform	**15.5**	0.30	ug/L	20.0		77.6	71-131	11.4	30	
Chloromethane	**17.8**	0.40	ug/L	20.0		89.0	48-152	14.9	30	
4-Chlorotoluene	**16.5**	0.20	ug/L	20.0		82.6	70-130	4.15	30	
2-Chlorotoluene	**16.0**	0.20	ug/L	20.0		80.2	70-130	2.46	30	
1,2-Dibromo-3-chloropropane	**17.9**	0.40	ug/L	20.0		89.7	53-145	4.15	30	
Dibromochloromethane	**18.6**	0.40	ug/L	20.0		93.0	72-133	8.99	30	
1,2-Dibromoethane (EDB)	**18.1**	0.40	ug/L	20.0		90.4	79-120	7.45	30	
Dibromomethane	**16.6**	0.40	ug/L	20.0		83.0	68-124	4.94	30	
1,3-Dichlorobenzene	**17.1**	0.40	ug/L	20.0		85.3	70-130	5.85	30	
1,4-Dichlorobenzene	**17.1**	0.30	ug/L	20.0		85.6	70-130	4.24	30	
1,2-Dichlorobenzene	**17.1**	0.30	ug/L	20.0		85.5	70-130	2.37	30	
Dichlorodifluoromethane (R12)	**17.7**	0.40	ug/L	20.0		88.6	16-148	16.4	30	
1,1-Dichloroethane	**15.5**	0.20	ug/L	20.0		77.4	67-120	15.2	30	
1,2-Dichloroethane (EDC)	**15.7**	0.20	ug/L	20.0		78.6	57-156	12.9	30	
cis-1,2-Dichloroethylene	**16.0**	0.30	ug/L	20.0		80.0	70-124	7.51	30	
1,1-Dichloroethylene	**16.0**	0.40	ug/L	20.0		79.8	50-149	8.34	30	
trans-1,2-Dichloroethylene	**16.0**	0.30	ug/L	20.0		80.2	66-126	10.1	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
LCS Dup (B4K2643-BSD1) Continued				Prepared & Analyzed: 11/26/24						
1,3-Dichloropropane	**17.3**	0.40	ug/L	20.0		86.4	79-113	4.55	30	
1,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		80.1	53-139	10.1	30	
2,2-Dichloropropane	**15.6**	0.30	ug/L	20.0		77.9	44-162	10.9	30	
trans-1,3-Dichloropropylene	**17.9**	0.30	ug/L	20.0		89.5	76-121	3.29	30	
1,1-Dichloropropylene	**16.1**	0.30	ug/L	20.0		80.6	84-124	8.89	30	QL-03
cis-1,3-Dichloropropylene	**17.3**	0.40	ug/L	20.0		86.6	67-127	4.74	30	
Ethylbenzene	**17.4**	0.30	ug/L	20.0		87.0	86-124	0.687	30	
Hexachlorobutadiene	**17.5**	0.50	ug/L	20.0		87.6	76-140	4.55	30	
2-Hexanone (MBK)	**18.5**	8.4	ug/L	20.0		92.7	52-123	7.27	30	J
Isopropylbenzene	**17.0**	0.30	ug/L	20.0		85.0	70-130	1.98	30	
4-Isopropyltoluene	**17.5**	0.30	ug/L	20.0		87.6	70-130	0.802	30	
Methyl-tert-Butyl Ether (MTBE)	**35.2**	1.2	ug/L	40.0		87.9	58-144	4.83	30	
Methylene Chloride	**15.2**	4.4	ug/L	20.0		76.1	50-135	11.6	30	
4-Methyl-2-pentanone (MIBK)	**19.1**	9.8	ug/L	20.0		95.7	49-139	4.16	30	J
Naphthalene	**19.2**	0.40	ug/L	20.0		95.8	74-128	3.99	30	
n-Propylbenzene	**17.4**	0.20	ug/L	20.0		87.2	70-130	3.77	30	
Styrene	**17.8**	0.20	ug/L	20.0		88.8	84-123	2.22	30	
1,1,1,2-Tetrachloroethane	**17.6**	0.30	ug/L	20.0		87.9	70-130	6.58	30	
1,1,2,2-Tetrachloroethane	**18.0**	0.40	ug/L	20.0		89.8	58-126	2.59	30	
Tetrachloroethylene (PCE)	**17.6**	0.50	ug/L	20.0		87.8	70-130	10.7	30	
Toluene	**16.9**	0.20	ug/L	20.0		84.6	83-118	1.91	30	
1,2,4-Trichlorobenzene	**17.2**	0.30	ug/L	20.0		85.9	84-128	2.18	30	
1,2,3-Trichlorobenzene	**17.9**	0.50	ug/L	20.0		89.6	77-134	2.66	30	
1,1,2-Trichloroethane	**17.2**	0.30	ug/L	20.0		86.2	75-115	3.24	30	
1,1,1-Trichloroethane	**16.1**	0.30	ug/L	20.0		80.4	66-158	11.5	30	
Trichloroethylene (TCE)	**15.8**	0.30	ug/L	20.0		78.8	82-128	11.6	30	QL-03
Trichlorofluoromethane (R11)	**18.0**	0.40	ug/L	20.0		90.0	65-137	6.81	30	
1,2,3-Trichloropropane	**17.5**	0.20	ug/L	20.0		87.6	68-123	4.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.9**	0.30	ug/L	20.0		79.6	62-130	14.7	30	
1,2,4-Trimethylbenzene	**17.1**	0.30	ug/L	20.0		85.3	70-130	1.51	30	
1,3,5-Trimethylbenzene	**16.9**	0.20	ug/L	20.0		84.4	70-130	1.99	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2643 - EPA 5030B										
LCS Dup (B4K2643-BSD1) Continued				Prepared & Analyzed: 11/26/24						
Vinyl chloride	**18.6**	0.40	ug/L	20.0		93.2	51-151	20.1	30	
o-Xylene	**16.8**	0.30	ug/L	20.0		83.9	70-130	2.47	30	
m,p-Xylenes	**34.0**	0.60	ug/L	40.0		85.1	70-130	1.00	30	
Surrogate: 4-Bromofluorobenzene	*44.9*		*ug/L*	*50.0*		*89.8*	*80-129*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*90.0*	*68-137*			
Surrogate: Toluene-d8	*46.6*		*ug/L*	*50.0*		*93.2*	*83-134*			
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1)				Prepared & Analyzed: 12/02/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.0*		*96.2*	*80-129*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*68-137*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95.0*	*83-134*			
LCS (B4L0226-BS1)				Prepared & Analyzed: 12/02/24						
Acetone	**21.9**	7.7	ug/L	20.0		110	27-123			J
Benzene	**17.1**	0.40	ug/L	20.0		85.7	60-134			
Bromobenzene	**17.8**	0.40	ug/L	20.0		89.0	70-130			
Bromochloromethane	**16.6**	0.20	ug/L	20.0		83.1	78-121			
Bromodichloromethane	**17.0**	0.40	ug/L	20.0		85.0	74-135			
Bromoform	**20.2**	0.40	ug/L	20.0		101	68-132			
Bromomethane	**17.8**	0.30	ug/L	20.0		89.2	58-142			
2-Butanone (MEK)	**15.4**	8.6	ug/L	20.0		77.2	62-138			J
tert-Butylbenzene	**18.0**	0.20	ug/L	20.0		90.2	70-130			
n-Butylbenzene	**18.6**	0.20	ug/L	20.0		92.8	70-130			
sec-Butylbenzene	**17.8**	0.20	ug/L	20.0		88.8	84-142			
Carbon Disulfide	**18.6**	0.20	ug/L	20.0		93.2	17-177			
Carbon Tetrachloride	**18.1**	0.30	ug/L	20.0		90.3	66-155			
Chlorobenzene	**18.0**	0.40	ug/L	20.0		90.1	70-130			
Chloroethane	**18.6**	0.40	ug/L	20.0		93.0	45-166			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
Chloroform	**16.8**	0.30	ug/L	20.0		83.8	71-131			
Chloromethane	**16.7**	0.40	ug/L	20.0		83.3	48-152			
4-Chlorotoluene	**17.6**	0.20	ug/L	20.0		88.0	70-130			
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.6	70-130			
1,2-Dibromo-3-chloropropane	**17.6**	0.40	ug/L	20.0		87.8	53-145			
Dibromochloromethane	**18.9**	0.40	ug/L	20.0		94.6	72-133			
1,2-Dibromoethane (EDB)	**17.5**	0.40	ug/L	20.0		87.4	79-120			
Dibromomethane	**16.2**	0.40	ug/L	20.0		81.0	68-124			
1,3-Dichlorobenzene	**17.6**	0.40	ug/L	20.0		88.0	70-130			
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130			
1,2-Dichlorobenzene	**17.8**	0.30	ug/L	20.0		89.2	70-130			
Dichlorodifluoromethane (R12)	**15.9**	0.40	ug/L	20.0		79.6	16-148			
1,1-Dichloroethane	**16.8**	0.20	ug/L	20.0		84.0	67-120			
1,2-Dichloroethane (EDC)	**16.3**	0.20	ug/L	20.0		81.6	57-156			
cis-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.6	70-124			
1,1-Dichloroethylene	**17.0**	0.40	ug/L	20.0		85.1	50-149			
trans-1,2-Dichloroethylene	**17.5**	0.30	ug/L	20.0		87.7	66-126			
1,3-Dichloropropane	**16.2**	0.40	ug/L	20.0		81.0	79-113			
1,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		80.0	53-139			
2,2-Dichloropropane	**17.1**	0.30	ug/L	20.0		85.5	44-162			
trans-1,3-Dichloropropylene	**18.3**	0.30	ug/L	20.0		91.4	76-121			
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124			
cis-1,3-Dichloropropylene	**17.2**	0.40	ug/L	20.0		86.2	67-127			
Ethylbenzene	**18.4**	0.30	ug/L	20.0		91.8	86-124			
Hexachlorobutadiene	**18.9**	0.50	ug/L	20.0		94.4	76-140			
2-Hexanone (MBK)	**16.2**	8.4	ug/L	20.0		81.0	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
4-Isopropyltoluene	**18.4**	0.30	ug/L	20.0		91.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**33.9**	1.2	ug/L	40.0		84.7	58-144			
Methylene Chloride	**16.5**	4.4	ug/L	20.0		82.5	50-135			
4-Methyl-2-pentanone (MIBK)	**15.4**	9.8	ug/L	20.0		77.0	49-139			J
Naphthalene	**18.4**	0.40	ug/L	20.0		92.2	74-128			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
n-Propylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130			
Styrene	**18.2**	0.20	ug/L	20.0		91.0	84-123			
1,1,1,2-Tetrachloroethane	**18.6**	0.30	ug/L	20.0		93.2	70-130			
1,1,2,2-Tetrachloroethane	**16.9**	0.40	ug/L	20.0		84.4	58-126			
Tetrachloroethylene (PCE)	**18.6**	0.50	ug/L	20.0		92.8	70-130			
Toluene	**17.8**	0.20	ug/L	20.0		88.8	83-118			
1,2,4-Trichlorobenzene	**18.2**	0.30	ug/L	20.0		90.9	84-128			
1,2,3-Trichlorobenzene	**17.8**	0.50	ug/L	20.0		89.0	77-134			
1,1,2-Trichloroethane	**17.0**	0.30	ug/L	20.0		85.2	75-115			
1,1,1-Trichloroethane	**17.3**	0.30	ug/L	20.0		86.4	66-158			
Trichloroethylene (TCE)	**17.0**	0.30	ug/L	20.0		85.2	82-128			
Trichlorofluoromethane (R11)	**19.8**	0.40	ug/L	20.0		99.2	65-137			
1,2,3-Trichloropropane	**16.8**	0.20	ug/L	20.0		84.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.1**	0.30	ug/L	20.0		85.5	62-130			
1,2,4-Trimethylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
1,3,5-Trimethylbenzene	**17.9**	0.20	ug/L	20.0		89.6	70-130			
Vinyl chloride	**19.3**	0.40	ug/L	20.0		96.3	51-151			
o-Xylene	**17.5**	0.30	ug/L	20.0		87.4	70-130			
m,p-Xylenes	**36.3**	0.60	ug/L	40.0		90.7	70-130			
Surrogate: 4-Bromofluorobenzene	*44.7*		*ug/L*	*50.0*		*89.5*	*80-129*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.0*		*92.5*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*95.9*	*83-134*			
LCS Dup (B4L0226-BSD1)				Prepared & Analyzed: 12/02/24						
Acetone	**32.0**	7.7	ug/L	20.0		160	27-123	37.3	30	QL-03, J
Benzene	**19.2**	0.40	ug/L	20.0		96.0	60-134	11.4	30	
Bromobenzene	**17.9**	0.40	ug/L	20.0		89.6	70-130	0.672	30	
Bromochloromethane	**20.9**	0.20	ug/L	20.0		104	78-121	22.7	30	
Bromodichloromethane	**21.1**	0.40	ug/L	20.0		106	74-135	21.6	30	
Bromoform	**23.5**	0.40	ug/L	20.0		118	68-132	15.2	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
Bromomethane	**21.7**	0.30	ug/L	20.0		109	58-142	19.6	30	
2-Butanone (MEK)	**23.5**	8.6	ug/L	20.0		117	62-138	41.3	30	QR-02
tert-Butylbenzene	**17.2**	0.20	ug/L	20.0		86.0	70-130	4.83	30	
n-Butylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130	0.757	30	
sec-Butylbenzene	**17.7**	0.20	ug/L	20.0		88.5	84-142	0.338	30	
Carbon Disulfide	**17.8**	0.20	ug/L	20.0		89.0	17-177	4.56	30	
Carbon Tetrachloride	**18.2**	0.30	ug/L	20.0		91.2	66-155	0.937	30	
Chlorobenzene	**17.6**	0.40	ug/L	20.0		88.2	70-130	2.19	30	
Chloroethane	**22.5**	0.40	ug/L	20.0		113	45-166	19.0	30	
Chloroform	**18.9**	0.30	ug/L	20.0		94.6	71-131	12.0	30	
Chloromethane	**20.0**	0.40	ug/L	20.0		100	48-152	18.2	30	
4-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.1	70-130	2.24	30	
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.5	70-130	0.179	30	
1,2-Dibromo-3-chloropropane	**24.4**	0.40	ug/L	20.0		122	53-145	32.3	30	QR-02
Dibromochloromethane	**21.0**	0.40	ug/L	20.0		105	72-133	10.2	30	
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120	18.1	30	
Dibromomethane	**22.8**	0.40	ug/L	20.0		114	68-124	33.9	30	QR-02
1,3-Dichlorobenzene	**17.4**	0.40	ug/L	20.0		87.2	70-130	0.913	30	
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130	0.00	30	
1,2-Dichlorobenzene	**18.7**	0.30	ug/L	20.0		93.6	70-130	4.76	30	
Dichlorodifluoromethane (R12)	**19.3**	0.40	ug/L	20.0		96.6	16-148	19.3	30	
1,1-Dichloroethane	**18.6**	0.20	ug/L	20.0		92.8	67-120	9.95	30	
1,2-Dichloroethane (EDC)	**22.6**	0.20	ug/L	20.0		113	57-156	32.1	30	QR-02
cis-1,2-Dichloroethylene	**19.0**	0.30	ug/L	20.0		95.2	70-124	11.7	30	
1,1-Dichloroethylene	**16.7**	0.40	ug/L	20.0		83.6	50-149	1.84	30	
trans-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0		89.9	66-126	2.48	30	
1,3-Dichloropropane	**20.4**	0.40	ug/L	20.0		102	79-113	22.9	30	
1,2-Dichloropropane	**21.0**	0.30	ug/L	20.0		105	53-139	26.9	30	
2,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		79.8	44-162	6.83	30	
trans-1,3-Dichloropropylene	**19.8**	0.30	ug/L	20.0		99.0	76-121	8.03	30	
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124	0.117	30	
cis-1,3-Dichloropropylene	**21.5**	0.40	ug/L	20.0		107	67-127	21.8	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
Ethylbenzene	**17.5**	0.30	ug/L	20.0		87.6	86-124	4.74	30	
Hexachlorobutadiene	**17.6**	0.50	ug/L	20.0		88.1	76-140	6.90	30	
2-Hexanone (MBK)	**23.0**	8.4	ug/L	20.0		115	52-123	34.7	30	QR-02
Isopropylbenzene	**17.2**	0.30	ug/L	20.0		85.8	70-130	5.11	30	
4-Isopropyltoluene	**17.4**	0.30	ug/L	20.0		87.0	70-130	5.26	30	
Methyl-tert-Butyl Ether (MTBE)	**48.9**	1.2	ug/L	40.0		122	58-144	36.3	30	QR-02
Methylene Chloride	**24.4**	4.4	ug/L	20.0		122	50-135	38.7	30	QR-02
4-Methyl-2-pentanone (MIBK)	**28.6**	9.8	ug/L	20.0		143	49-139	59.8	30	QL-03
Naphthalene	**24.0**	0.40	ug/L	20.0		120	74-128	26.1	30	
n-Propylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	4.21	30	
Styrene	**18.5**	0.20	ug/L	20.0		92.6	84-123	1.69	30	
1,1,1,2-Tetrachloroethane	**18.9**	0.30	ug/L	20.0		94.5	70-130	1.39	30	
1,1,2,2-Tetrachloroethane	**23.0**	0.40	ug/L	20.0		115	58-126	30.4	30	QR-02
Tetrachloroethylene (PCE)	**15.8**	0.50	ug/L	20.0		79.2	70-130	15.9	30	
Toluene	**16.5**	0.20	ug/L	20.0		82.4	83-118	7.59	30	QL-03
1,2,4-Trichlorobenzene	**19.2**	0.30	ug/L	20.0		96.2	84-128	5.72	30	
1,2,3-Trichlorobenzene	**20.3**	0.50	ug/L	20.0		102	77-134	13.3	30	
1,1,2-Trichloroethane	**20.0**	0.30	ug/L	20.0		100	75-115	15.9	30	
1,1,1-Trichloroethane	**18.3**	0.30	ug/L	20.0		91.3	66-158	5.46	30	
Trichloroethylene (TCE)	**18.3**	0.30	ug/L	20.0		91.4	82-128	6.96	30	
Trichlorofluoromethane (R11)	**24.0**	0.40	ug/L	20.0		120	65-137	18.8	30	
1,2,3-Trichloropropane	**22.7**	0.20	ug/L	20.0		114	68-123	29.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.5**	0.30	ug/L	20.0		87.4	62-130	2.20	30	
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0		89.8	70-130	0.722	30	
1,3,5-Trimethylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	1.41	30	
Vinyl chloride	**23.1**	0.40	ug/L	20.0		116	51-151	18.2	30	
o-Xylene	**17.1**	0.30	ug/L	20.0		85.4	70-130	2.37	30	
m,p-Xylenes	**34.3**	0.60	ug/L	40.0		85.8	70-130	5.58	30	
Surrogate: 4-Bromofluorobenzene	*47.7*		*ug/L*	*50.0*		*95.3*	*80-129*			
Surrogate: Dibromofluoromethane	*56.0*		*ug/L*	*50.0*		*112*	*68-137*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874670
Date Received: 11/20/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
Surrogate: Toluene-d8	*46.8*		*ug/L*	*50.0*		*93.6*	*83-134*			
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										
Blank (B4K2635-BLK1)				Prepared & Analyzed: 11/26/24						
Methane	<2.0	2.0	ug/L							
Ethane	<2.0	2.0	ug/L							
Ethylene	<2.0	2.0	ug/L							
LCS (B4K2635-BS1)				Prepared & Analyzed: 11/26/24						
Methane	**9.50**	2.0	ug/L	10.1		94.1	75-125			
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125			
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125			
LCS Dup (B4K2635-BSD1)				Prepared & Analyzed: 11/26/24						
Methane	**9.48**	2.0	ug/L	10.1		93.9	75-125	0.211	30	
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125	0.206	30	
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125	0.235	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874670
Project No:	130072-025	**Date Received:**	11/20/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = O-01 : This compound is a possible field or laboratory contaminant.

[2] = QL-03 : The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.

[3] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[4] = QR-02 : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

[5] = S-07 : Surrogate recovery is slightly outside of the upper control limit. Since the analyte was not detected in the sample, the data is not significantly affected.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4K21089

Project Name: American Analytics
Project Number: Cooper Drum

P.O. #:

Report Date: 12/09/2024
Received Date: 11/21/2024 10:54 am
Turnaround Time: Normal
Billing Code:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: QC02-111924

4K21089-01RE1 (Water) — Sampled: 11/19/24 8:38 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2196 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 07:45				**Analyst:** JAN
1,2,3-Trichloropropane	0.12		0.050	ug/l	10	11/27/24	

Sample: QC03-111924

4K21089-02 (Water) — Sampled: 11/19/24 8:48 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: QC04-111924

4K21089-03 (Water) — Sampled: 11/19/24 13:55 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample Results

(Continued)

Sample: QC05-111924

4K21089-04 (Water) — Sampled: 11/19/24 14:20 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: QC06-111924

4K21089-05 (Water) — Sampled: 11/19/24 15:00 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: MW-37-111924

4K21089-06 (Water) — Sampled: 11/19/24 8:33 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	0.13		0.0050	ug/l	1	11/23/24	

Sample: MW-36-111924

4K21089-07 (Water) — Sampled: 11/19/24 10:05 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	0.0076		0.0050	ug/l	1	11/23/24	

Sample Results

(Continued)

Sample: MW-50-111924

4K21089-08 (Water) — Sampled: 11/19/24 10:56 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	0.0061		0.0050	ug/l	1	11/23/24	

Sample: MW-51-111924

4K21089-09 (Water) — Sampled: 11/19/24 12:16 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1890 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:45				**Analyst:** JAN
1,2,3-Trichloropropane	0.051		0.0050	ug/l	1	11/23/24	

Sample: MW-4-111924

4K21089-10 (Water) — Sampled: 11/19/24 13:23 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: MW-59C-111924

4K21089-11 (Water) — Sampled: 11/19/24 14:23 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	0.018		0.0050	ug/l	1	11/23/24	

Sample Results

(Continued)

Sample: MW-2C-111924

4K21089-12 (Water) — Sampled: 11/19/24 14:56 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: MW-2D-111924

4K21089-13 (Water) — Sampled: 11/19/24 15:25 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	0.13		0.0050	ug/l	1	11/23/24	

Sample: MW-55R-111924

4K21089-14 (Water) — Sampled: 11/19/24 8:43 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/23/24	

Sample: MW-39-111924

4K21089-15 (Water) — Sampled: 11/19/24 9:46 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	0.057		0.0050	ug/l	1	11/23/24	

Sample Results

(Continued)

Sample: MW-40-111924

4K21089-16 (Water) — Sampled: 11/19/24 10:46 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	0.069		0.0050	ug/l	1	11/24/24	

Sample: MW-38-111924

4K21089-17 (Water) — Sampled: 11/19/24 11:36 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	0.026		0.0050	ug/l	1	11/24/24	

Sample: MW-53-111924

4K21089-18 (Water) — Sampled: 11/19/24 12:18 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1891 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:47				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample: MW-54-111924

4K21089-19 (Water) — Sampled: 11/19/24 13:02 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1892 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:49				**Analyst:** JAN
1,2,3-Trichloropropane	0.13		0.0050	ug/l	1	11/24/24	

Sample Results

(Continued)

Sample: MW-04B-111924

4K21089-20 (Water)

Sampled: 11/19/24 13:50 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1892 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:49				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample: MW-20B-111924

4K21089-21 (Water)

Sampled: 11/19/24 15:05 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1892 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:49				**Analyst:** JAN
1,2,3-Trichloropropane	0.015		0.0050	ug/l	1	11/24/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K1890 - EPA 5030B										
Blank (W4K1890-BLK1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1890-BS1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0208	0.0050	ug/l	0.0200		104	80-120			
LCS Dup (W4K1890-BSD1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0236	0.0050	ug/l	0.0200		118	80-120	12	20	
Matrix Spike (W4K1890-MS1)	Source: 4K21089-08		Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0268	0.0050	ug/l	0.0200	*0.00606*	104	80-120			
Matrix Spike Dup (W4K1890-MSD1)	Source: 4K21089-08		Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0292	0.0050	ug/l	0.0200	*0.00606*	115	80-120	8	200	
Batch: W4K1891 - EPA 5030B										
Blank (W4K1891-BLK1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1891-BS1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0203	0.0050	ug/l	0.0200		102	80-120			
LCS Dup (W4K1891-BSD1)			Prepared: 11/22/24 Analyzed: 11/23/24							
1,2,3-Trichloropropane	0.0210	0.0050	ug/l	0.0200		105	80-120	3	20	
Duplicate (W4K1891-DUP1)	Source: 4K21096-01		Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	
Batch: W4K1892 - EPA 5030B										
Blank (W4K1892-BLK1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1892-BS1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0198	0.0050	ug/l	0.0200		99	80-120			
LCS Dup (W4K1892-BSD1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0196	0.0050	ug/l	0.0200		98	80-120	1	20	
Duplicate (W4K1892-DUP1)	Source: 4K21096-02		Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.00690	0.0050	ug/l		*0.00683*			0.9	20	
Batch: W4K2196 - EPA 5030B										
Blank (W4K2196-BLK1)			Prepared & Analyzed: 11/27/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2196-BS1)			Prepared & Analyzed: 11/27/24							
1,2,3-Trichloropropane	0.0229	0.0050	ug/l	0.0200		114	80-120			
LCS Dup (W4K2196-BSD1)			Prepared & Analyzed: 11/27/24							

Quality Control Results

(Continued)

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K2196 - EPA 5030B (Continued)										
LCS Dup (W4K2196-BSD1)				Prepared & Analyzed: 11/27/24						
1,2,3-trichloropropane	0.0212	0.0050	ug/l	0.0200		106	80-120	8	20	
Duplicate (W4K2196-DUP1)	Source: 4K21096-05			Prepared & Analyzed: 11/27/24						
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

BLAINE
TECH SERVICES, INC.

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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics /
Weck Laboratories, inc.

COC 1 of 3

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
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Costa Mesa, CA 92626
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C: 714.709.3072
www.haleyaldrich.com

29696

A874670/4K20017

SAMPLE I.D.	DATE	TIME	MATRIX AQ=Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved Gases (RSK175 by RSK175)	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
QC01-111924	11/19/24	0800	W	2	HCL	Vom	X									4K20170-01
QC02-111924	11/19/24	0838	W	10			X	X	X	X						-02
QC03-111924	11/19/24	0848	W	7			X	X	X							-03
QC04-111924	11/19/24	1355	W	10			X	X	X	X						-04
QC05-111924	11/19/24	1420	W	7			X	X	X							-05
QC06-111924	11/19/24	1500	W	7			X	X	X							-06
MW-37-111924	11/19/24	0833	W	10			X	X	X	X						-07
MW-36-111924	11/19/24	1005	W	7			X	X	X							-08
MW-50-111924	11/19/24	1056	W	15			X	X	X		X					-09
MW-51-111924	11/19/24	1216	W	10			X	X	X	X						-10

REVIEWER Date 11/21/24 Time 1100 TAT 2A Days Std

SAMPLE INTEGRITY INTACT (Y) N TEMP 2.1°C

1659

SAMPLING COMPLETED	DATE	TIME
	11/19/24	1600

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	12:20		11/20/24	12:20
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
			11/20/24	1659
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	TIME SENT	COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

LAB:
American Analytics / Weck Laboratories, inc.

COC 2 of 3

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
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29697
A824670/4K20017

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX (AQ=Water)	CONTAINERS #	Preservative	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved gases (Ethane, Ethene, Methane) by RSK175	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-4-111924	11/19/24	1323	W	7			X	X	X							4K20017-11
MW-59C-111924	11/19/24	1423	W	7			X	X	X							-12
MW-2C-111924	11/19/24	1456	W	7			X	X	X							-13
MW-2S-111924	11/19/24	1525	W	7			X	X	X							-14
MW-55R-111924	11/19/24	0843	W	7			X	X	X							-15
MW-39-111924	11/19/24	0946	W	7			X	X	X							-16
MW-40-111924-1	11/19/24	1046	W	10			X	X	X	X						-17
MW-38-111924	11/19/24	1136	W	7			X	X	X							-18
MW-53-111924	11/19/24	1218	W	10			X	X	X	X						-19
MW-54-111924	11/19/24	1302	W	10			X	X	X	X						-20

REVIEWED Date 11/21/24 Time 1150 By [signature] TAT 5 days std

SAMPLING COMPLETED	DATE	TIME
	11/19/24	1600

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

		TIME		DATE	TIME
RELEASED BY	[signature]	12:20	RECEIVED BY [signature]	11/20/24	12:20
RELEASED BY	[signature]		RECEIVED BY [signature]	11/20/24	1659
RELEASED BY			RECEIVED BY		

SHIPPED VIA	TIME SENT	COOLER #

24NOV20 16:59

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics / Weck Laboratories, inc.

COC 3 of 3

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
Haley & Aldrich, Inc.
3187 Red Hill Avenue | Suite 155
Costa Mesa, CA 92626
T: 714.371.1828
C: 714.709.3072
www.haleyaldrich.com

24698

AS74670/4K20017

SAMPLE I.D.	DATE	TIME	MATRIX (AQ=Water)	CONTAINERS #	Preservative	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved gases (ethane/ethene/methane) by RSK175	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-04B-111924	11/19/24	1350	W	10			X	X	X	X						4K20017-21
MW-20B-111924	11/19/24	1505	W	7			X	X	X							-22

RECEIVED Date 11/21/24 Time 1100 Days 5WD TAT N

'24 NOV 20 PM 12:20

	DATE	TIME
SAMPLING COMPLETED	11/19/24	1600

SAMPLING PERFORMED BY DC

RESULTS NEEDED NO LATER THAN: Standard

	TIME		DATE	TIME
RELEASED BY DC	2:20	RECEIVED BY	11/20/24	12:20
RELEASED BY		RECEIVED BY	11/20/24	16:59
RELEASED BY		RECEIVED BY		

SHIPPED VIA | TIME SENT | COOLER #

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum GW - South Gate / 130072-025

A874672 / 4K21023

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/21/24 16:44 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
QC07-112024	4K21023-01	Water	10	11/20/24 07:30	11/21/24 16:44
EW-A-112024	4K21023-02	Water	10	11/20/24 08:25	11/21/24 16:44
EW-04-112024	4K21023-03	Water	10	11/20/24 08:48	11/21/24 16:44
EW-07A-112024	4K21023-04	Water	10	11/20/24 09:30	11/21/24 16:44
EW-07B-112024	4K21023-05	Water	10	11/20/24 09:45	11/21/24 16:44
QC08-112024	4K21023-06	Water	10	11/20/24 09:50	11/21/24 16:44
MW-60A-112024	4K21023-07	Water	10	11/20/24 10:40	11/21/24 16:44
MW-60B-112024	4K21023-08	Water	10	11/20/24 11:13	11/21/24 16:44
MW-62A-112024	4K21023-09	Water	10	11/20/24 12:03	11/21/24 16:44
MW-62B-112024	4K21023-10	Water	10	11/20/24 12:43	11/21/24 16:44
QC11-112024	4K21023-11	Water	10	11/20/24 13:40	11/21/24 16:44
PZ-07B-112024	4K21023-12	Water	10	11/20/24 14:07	11/21/24 16:44
PZ-07A-112024	4K21023-13	Water	10	11/20/24 13:28	11/21/24 16:44
MW-16R-112024	4K21023-14	Water	10	11/20/24 08:35	11/21/24 16:44
MW-15B-112024	4K21023-15	Water	10	11/20/24 09:36	11/21/24 16:44
MW-17-112024	4K21023-16	Water	10	11/20/24 10:42	11/21/24 16:44
EW-05-112024	4K21023-17	Water	10	11/20/24 11:57	11/21/24 16:44
MW-23-112024	4K21023-18	Water	10	11/20/24 12:49	11/21/24 16:44
QC09-112024	4K21023-19	Water	10	11/20/24 12:54	11/21/24 16:44

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
QC10-112024	4K21023-20	Water	10	11/20/24 13:10	11/21/24 16:44
MW-23B-112024	4K21023-21	Water	10	11/20/24 13:40	11/21/24 16:44
8270CM 1,4-Dioxane Only					
EW-A-112024	4K21023-02	Water	10	11/20/24 08:25	11/21/24 16:44
EW-04-112024	4K21023-03	Water	10	11/20/24 08:48	11/21/24 16:44
EW-07A-112024	4K21023-04	Water	10	11/20/24 09:30	11/21/24 16:44
EW-07B-112024	4K21023-05	Water	10	11/20/24 09:45	11/21/24 16:44
QC08-112024	4K21023-06	Water	10	11/20/24 09:50	11/21/24 16:44
MW-60A-112024	4K21023-07	Water	10	11/20/24 10:40	11/21/24 16:44
MW-60B-112024	4K21023-08	Water	10	11/20/24 11:13	11/21/24 16:44
MW-62A-112024	4K21023-09	Water	10	11/20/24 12:03	11/21/24 16:44
MW-62B-112024	4K21023-10	Water	10	11/20/24 12:43	11/21/24 16:44
QC11-112024	4K21023-11	Water	10	11/20/24 13:40	11/21/24 16:44
PZ-07B-112024	4K21023-12	Water	10	11/20/24 14:07	11/21/24 16:44
PZ-07A-112024	4K21023-13	Water	10	11/20/24 13:28	11/21/24 16:44
MW-16R-112024	4K21023-14	Water	10	11/20/24 08:35	11/21/24 16:44
MW-15B-112024	4K21023-15	Water	10	11/20/24 09:36	11/21/24 16:44
MW-17-112024	4K21023-16	Water	10	11/20/24 10:42	11/21/24 16:44
EW-05-112024	4K21023-17	Water	10	11/20/24 11:57	11/21/24 16:44
MW-23-112024	4K21023-18	Water	10	11/20/24 12:49	11/21/24 16:44

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
QC09-112024	4K21023-19	Water	10	11/20/24 12:54	11/21/24 16:44
QC10-112024	4K21023-20	Water	10	11/20/24 13:10	11/21/24 16:44
MW-23B-112024	4K21023-21	Water	10	11/20/24 13:40	11/21/24 16:44

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K21023-02	4K21023-03	4K21023-04	4K21023-05		
Client ID No:	EW-A-112024	EW-04-112024	EW-07A-112024	EW-07B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**3.8**	**2.4**	**2.4**	**3.8**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	118%	140%	117%	142%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K21023-06	4K21023-07	4K21023-08	4K21023-09		
Client ID No:	QC08-112024	MW-60A-112024	MW-60B-112024	MW-62A-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**3.8**	**7.6**	**6.2**	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	125%	137%	129%	93.5%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/04/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K21023-10	4K21023-11	4K21023-12	4K21023-13		
Client ID No:	MW-62B-112024	QC11-112024	PZ-07B-112024	PZ-07A-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	<0.50	<0.50	**2.0**	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	83.8%	119%	126%	122%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K21023-14	4K21023-15	4K21023-16	4K21023-17		
Client ID No:	MW-16R-112024	MW-15B-112024	MW-17-112024	EW-05-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	<0.50	**2.6**	**3.2**	**7.2**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	126%	116%	82.0%	65.8%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/04/24	12/04/24	12/04/24	12/04/24		
AA ID No:	4K21023-18	4K21023-19	4K21023-20	4K21023-21		
Client ID No:	MW-23-112024	QC09-112024	QC10-112024	MW-23B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**2.8**	**2.8**	<0.50	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	129%	118%	150%	153% [5]	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-01	4K21023-02	4K21023-03	4K21023-04		
Client ID No:	QC07-112024	EW-A-112024	EW-04-112024	EW-07A-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	**1.8**	**0.62**	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.40 J [1]**	<0.20	**0.29 J [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-01	4K21023-02	4K21023-03	4K21023-04		
Client ID No:	QC07-112024	EW-A-112024	EW-04-112024	EW-07A-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	**0.43 J**	**0.45 J**	**0.38 J**	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	**2.3**	**3.3**	**0.87**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	**42**	**44**	**11**	0.30	0.50
1,1-Dichloroethylene	<0.40	**0.44 J**	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	**12**	**12**	**2.8**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-01	4K21023-02	4K21023-03	4K21023-04		
Client ID No:	QC07-112024	EW-A-112024	EW-04-112024	EW-07A-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**0.60**	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	**1.9**	**2.2**	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	94.9%	92.7%	96.4%	97.5%		80-129
Dibromofluoromethane	104%	96.6%	96.9%	99.4%		68-137
Toluene-d8	96.4%	97.2%	97.9%	99.6%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	12/04/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	12/04/24		
AA ID No:	4K21023-05	4K21023-06	4K21023-07	4K21023-08		
Client ID No:	EW-07B-112024	QC08-112024	MW-60A-112024	MW-60B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	<0.20	**0.22 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	12/04/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	12/04/24		
AA ID No:	4K21023-05	4K21023-06	4K21023-07	4K21023-08		
Client ID No:	EW-07B-112024	QC08-112024	MW-60A-112024	MW-60B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**0.59**	**0.56**	**0.35 J**	**0.76**	0.20	0.50
1,2-Dichloroethane (EDC)	**1.0**	**1.0**	**0.33 J**	<0.20	0.20	0.50
cis-1,2-Dichloroethylene	**27**	**26**	**11**	**12**	0.30	0.50
1,1-Dichloroethylene	**0.51**	**0.45 J**	**1.1**	**1.9**	0.40	0.50
trans-1,2-Dichloroethylene	**3.0**	**2.7**	**0.33 J**	**2.0**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	12/04/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	12/04/24		
AA ID No:	4K21023-05	4K21023-06	4K21023-07	4K21023-08		
Client ID No:	EW-07B-112024	QC08-112024	MW-60A-112024	MW-60B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**1.2**	**0.96**	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**0.41 J**	**0.40 J**	**0.69**	**0.70**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	95.7%	95.5%	96.7%	91.0%		80-129
Dibromofluoromethane	97.4%	101%	98.9%	91.2%		68-137
Toluene-d8	97.4%	97.4%	98.8%	96.2%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	12/02/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/02/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-09	4K21023-10	4K21023-11	4K21023-12		
Client ID No:	MW-62A-112024	MW-62B-112024	QC11-112024	PZ-07B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	**2.7**	**3.6**	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.63 [1]**	**0.33 J [1]**	**0.51 [1]**	**0.40 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	12/02/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/02/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-09	4K21023-10	4K21023-11	4K21023-12		
Client ID No:	MW-62A-112024	MW-62B-112024	QC11-112024	PZ-07B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	**0.34 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.7**	**4.0**	<0.20	**1.0**	0.20	0.50
cis-1,2-Dichloroethylene	**40**	**51**	<0.30	**9.9**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**20**	**21**	<0.30	**1.8**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	12/02/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/02/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-09	4K21023-10	4K21023-11	4K21023-12		
Client ID No:	MW-62A-112024	MW-62B-112024	QC11-112024	PZ-07B-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	**0.63**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**7.5**	**4.8**	<0.40	**2.3**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	99.3%	97.9%	99.3%	99.5%		80-129
Dibromofluoromethane	120%	101%	102%	101%		68-137
Toluene-d8	94.5%	99.9%	101%	101%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-13	4K21023-14	4K21023-15	4K21023-16		
Client ID No:	PZ-07A-112024	MW-16R-112024	MW-15B-112024	MW-17-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	**1.4**	**0.48 J**	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.40 J [1]**	**0.26 J [1]**	**0.25 J [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-13	4K21023-14	4K21023-15	4K21023-16		
Client ID No:	PZ-07A-112024	MW-16R-112024	MW-15B-112024	MW-17-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**0.27 J**	<0.20	**0.36 J**	**0.46 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**0.91**	<0.20	**2.0**	**0.41 J**	0.20	0.50
cis-1,2-Dichloroethylene	**12**	<0.30	**54**	**6.4**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	**0.43 J**	0.40	0.50
trans-1,2-Dichloroethylene	**2.3**	<0.30	**7.9**	**0.47 J**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	11/27/24	11/27/24	11/27/24	11/27/24		
AA ID No:	4K21023-13	4K21023-14	4K21023-15	4K21023-16		
Client ID No:	PZ-07A-112024	MW-16R-112024	MW-15B-112024	MW-17-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.31 J**	**0.35 J**	**0.36 J**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**0.51**	<0.40	**1.7**	**23**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	99.0%	99.9%	99.0%	100%		80-129
Dibromofluoromethane	102%	101%	100%	101%		68-137
Toluene-d8	101%	103%	103%	104%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	12/02/24	12/02/24		
Date Analyzed:	11/27/24	11/28/24	12/02/24	12/02/24		
AA ID No:	4K21023-17	4K21023-18	4K21023-19	4K21023-20		
Client ID No:	EW-05-112024	MW-23-112024	QC09-112024	QC10-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	**0.54 [1]**	**0.71 [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	12/02/24	12/02/24		
Date Analyzed:	11/27/24	11/28/24	12/02/24	12/02/24		
AA ID No:	4K21023-17	4K21023-18	4K21023-19	4K21023-20		
Client ID No:	EW-05-112024	MW-23-112024	QC09-112024	QC10-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**0.38 J**	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**0.21 J**	**0.40 J**	**0.52**	<0.20	0.20	0.50
cis-1,2-Dichloroethylene	**4.5**	**4.1**	**4.9**	<0.30	0.30	0.50
1,1-Dichloroethylene	**0.41 J**	**1.1**	**1.4**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**0.59**	<0.30	<0.30	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/20/24	11/20/24	11/20/24	11/20/24		
Date Prepared:	11/27/24	11/27/24	12/02/24	12/02/24		
Date Analyzed:	11/27/24	11/28/24	12/02/24	12/02/24		
AA ID No:	4K21023-17	4K21023-18	4K21023-19	4K21023-20		
Client ID No:	EW-05-112024	MW-23-112024	QC09-112024	QC10-112024		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**2.1**	**2.6**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**6.6**	<0.40	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	100%	101%	101%	102%		80-129
Dibromofluoromethane	102%	106%	109%	102%		68-137
Toluene-d8	103%	102%	99.5%	101%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24		
Date Prepared:	12/02/24		
Date Analyzed:	12/02/24		
AA ID No:	4K21023-21		
Client ID No:	MW-23B-112024		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
8260B (EPA 8260B)			
Acetone	<7.7	7.7	50
Benzene	<0.40	0.40	0.50
Bromobenzene	<0.40	0.40	0.50
Bromochloromethane	<0.20	0.20	0.50
Bromodichloromethane	<0.40	0.40	0.50
Bromoform	<0.40	0.40	0.50
Bromomethane	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	8.6	20
tert-Butylbenzene	<0.20	0.20	0.50
n-Butylbenzene	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	0.20	0.50
Carbon Disulfide	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	0.30	0.50
Chlorobenzene	<0.40	0.40	0.50
Chloroethane	<0.40	0.40	0.50
Chloroform	<0.30	0.30	0.50
Chloromethane	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	0.40	1.0
Dibromochloromethane	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	0.40	0.50
Dibromomethane	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24		
Date Prepared:	12/02/24		
Date Analyzed:	12/02/24		
AA ID No:	4K21023-21		
Client ID No:	MW-23B-112024		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B (EPA 8260B) (continued)

1,1-Dichloroethane	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**0.81**	0.20	0.50
cis-1,2-Dichloroethylene	**0.59**	0.30	0.50
1,1-Dichloroethylene	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	0.40	0.50
Ethylbenzene	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	8.4	20
Isopropylbenzene	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	2.0
Methylene Chloride	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	20
Naphthalene	<0.40	0.40	2.0
n-Propylbenzene	<0.20	0.20	0.50
Styrene	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	0.50	0.50
Toluene	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/20/24		
Date Prepared:	12/02/24		
Date Analyzed:	12/02/24		
AA ID No:	4K21023-21		
Client ID No:	MW-23B-112024		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

8260B (EPA 8260B) (continued)

1,2,3-Trichlorobenzene	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	0.20	0.50
Vinyl chloride	<0.40	0.40	0.50
o-Xylene	<0.30	0.30	0.50
m,p-Xylenes	<0.60	0.60	1.0

Surrogates		**%REC Limits**
4-Bromofluorobenzene	101%	80-129
Dibromofluoromethane	101%	68-137
Toluene-d8	103%	83-134

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2646 - EPA 3510C_MS										
Blank (B4K2646-BLK1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*311*		*ug/L*	*200*		*155*	*50-150*			
LCS (B4K2646-BS1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	**30.8**	0.50	ug/L	40.0		77.0	75-125			
Surrogate: 1,4-Dioxane-d8	*340*		*ug/L*	*200*		*170*	*50-150*			
LCS Dup (B4K2646-BSD1)				Prepared: 11/26/24 Analyzed: 12/03/24						
1,4-Dioxane	**31.0**	0.50	ug/L	40.0		77.5	75-125	0.647	30	
Surrogate: 1,4-Dioxane-d8	*300*		*ug/L*	*200*		*150*	*50-150*			
Matrix Spike (B4K2646-MS1)		**Source: 4K21023-02**		Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**33.6**	0.50	ug/L	40.0	3.80	74.5	70-130			
Surrogate: 1,4-Dioxane-d8	*216*		*ug/L*	*200*		*108*	*50-150*			
Matrix Spike Dup (B4K2646-MSD1)		**Source: 4K21023-02**		Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**32.0**	0.50	ug/L	40.0	3.80	70.5	70-130	4.88	30	
Surrogate: 1,4-Dioxane-d8	*219*		*ug/L*	*200*		*110*	*50-150*			
Batch B4K2647 - EPA 3510C_MS										
Blank (B4K2647-BLK1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*350*		*ug/L*	*200*		*175*	*50-150*			
LCS (B4K2647-BS1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**31.4**	0.50	ug/L	40.0		78.5	75-125			
Surrogate: 1,4-Dioxane-d8	*371*		*ug/L*	*200*		*185*	*50-150*			
LCS Dup (B4K2647-BSD1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**31.4**	0.50	ug/L	40.0		78.5	75-125	0.00	30	
Surrogate: 1,4-Dioxane-d8	*337*		*ug/L*	*200*		*168*	*50-150*			
Matrix Spike (B4K2647-MS1)		**Source: 4K22003-05**		Prepared: 11/26/24 Analyzed: 12/05/24						
1,4-Dioxane	**150**	0.50	ug/L	200	3.80	72.9	70-130			
Surrogate: 1,4-Dioxane-d8	*196*		*ug/L*	*200*		*98.0*	*50-150*			

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2647 - EPA 3510C_MS										
Matrix Spike Dup (B4K2647-MSD1)	**Source: 4K22003-05**			Prepared: 11/26/24		Analyzed: 12/05/24				
1,4-Dioxane	**173**	0.50	ug/L	200	3.80	84.6	70-130	14.5	30	
Surrogate: 1,4-Dioxane-d8	*150*		*ug/L*	*200*		*75.0*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Blank (B4K2705-BLK1)				Prepared & Analyzed: 11/27/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	**0.280**	0.20	ug/L							O-01, J
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Blank (B4K2705-BLK1) Continued				Prepared & Analyzed: 11/27/24						
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Blank (B4K2705-BLK1) Continued				Prepared & Analyzed: 11/27/24						
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/L*	*50.0*		*91.6*	*80-129*			
Surrogate: Dibromofluoromethane	*48.9*		*ug/L*	*50.0*		*97.7*	*68-137*			
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*97.8*	*83-134*			
LCS (B4K2705-BS1)				Prepared & Analyzed: 11/27/24						
Acetone	**24.0**	7.7	ug/L	20.0		120	27-123			J
Benzene	**17.3**	0.40	ug/L	20.0		86.3	60-134			
Bromobenzene	**18.0**	0.40	ug/L	20.0		90.0	70-130			
Bromochloromethane	**17.5**	0.20	ug/L	20.0		87.7	78-121			
Bromodichloromethane	**17.5**	0.40	ug/L	20.0		87.6	74-135			
Bromoform	**22.1**	0.40	ug/L	20.0		110	68-132			
Bromomethane	**17.6**	0.30	ug/L	20.0		88.1	58-142			
2-Butanone (MEK)	**19.1**	8.6	ug/L	20.0		95.6	62-138			J
tert-Butylbenzene	**17.3**	0.20	ug/L	20.0		86.6	70-130			
n-Butylbenzene	**17.8**	0.20	ug/L	20.0		88.8	70-130			
sec-Butylbenzene	**17.2**	0.20	ug/L	20.0		86.2	84-142			
Carbon Disulfide	**18.1**	0.20	ug/L	20.0		90.4	17-177			
Carbon Tetrachloride	**17.2**	0.30	ug/L	20.0		85.8	66-155			
Chlorobenzene	**17.7**	0.40	ug/L	20.0		88.6	70-130			
Chloroethane	**19.3**	0.40	ug/L	20.0		96.5	45-166			
Chloroform	**16.6**	0.30	ug/L	20.0		82.8	71-131			
Chloromethane	**18.2**	0.40	ug/L	20.0		90.8	48-152			
4-Chlorotoluene	**16.6**	0.20	ug/L	20.0		83.0	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
LCS (B4K2705-BS1) Continued				Prepared & Analyzed: 11/27/24						
2-Chlorotoluene	**16.3**	0.20	ug/L	20.0		81.6	70-130			
1,2-Dibromo-3-chloropropane	**20.5**	0.40	ug/L	20.0		102	53-145			
Dibromochloromethane	**19.4**	0.40	ug/L	20.0		97.0	72-133			
1,2-Dibromoethane (EDB)	**19.3**	0.40	ug/L	20.0		96.6	79-120			
Dibromomethane	**17.2**	0.40	ug/L	20.0		86.2	68-124			
1,3-Dichlorobenzene	**17.0**	0.40	ug/L	20.0		84.9	70-130			
1,4-Dichlorobenzene	**17.2**	0.30	ug/L	20.0		86.2	70-130			
1,2-Dichlorobenzene	**17.7**	0.30	ug/L	20.0		88.5	70-130			
Dichlorodifluoromethane (R12)	**18.5**	0.40	ug/L	20.0		92.5	16-148			
1,1-Dichloroethane	**16.5**	0.20	ug/L	20.0		82.7	67-120			
1,2-Dichloroethane (EDC)	**17.0**	0.20	ug/L	20.0		85.2	57-156			
cis-1,2-Dichloroethylene	**16.7**	0.30	ug/L	20.0		83.7	70-124			
1,1-Dichloroethylene	**16.5**	0.40	ug/L	20.0		82.6	50-149			
trans-1,2-Dichloroethylene	**17.0**	0.30	ug/L	20.0		84.9	66-126			
1,3-Dichloropropane	**17.8**	0.40	ug/L	20.0		88.9	79-113			
1,2-Dichloropropane	**16.4**	0.30	ug/L	20.0		82.2	53-139			
2,2-Dichloropropane	**16.7**	0.30	ug/L	20.0		83.5	44-162			
trans-1,3-Dichloropropylene	**18.9**	0.30	ug/L	20.0		94.4	76-121			
1,1-Dichloropropylene	**16.8**	0.30	ug/L	20.0		84.1	84-124			
cis-1,3-Dichloropropylene	**17.9**	0.40	ug/L	20.0		89.6	67-127			
Ethylbenzene	**17.8**	0.30	ug/L	20.0		88.8	86-124			
Hexachlorobutadiene	**17.4**	0.50	ug/L	20.0		86.9	76-140			
2-Hexanone (MBK)	**20.2**	8.4	ug/L	20.0		101	52-123			
Isopropylbenzene	**17.3**	0.30	ug/L	20.0		86.6	70-130			
4-Isopropyltoluene	**17.7**	0.30	ug/L	20.0		88.7	70-130			
Methyl-tert-Butyl Ether (MTBE)	**37.7**	1.2	ug/L	40.0		94.2	58-144			
Methylene Chloride	**15.6**	4.4	ug/L	20.0		78.2	50-135			
4-Methyl-2-pentanone (MIBK)	**21.4**	9.8	ug/L	20.0		107	49-139			
Naphthalene	**20.8**	0.40	ug/L	20.0		104	74-128			
n-Propylbenzene	**17.9**	0.20	ug/L	20.0		89.5	70-130			
Styrene	**18.0**	0.20	ug/L	20.0		90.0	84-123			
1,1,1,2-Tetrachloroethane	**18.1**	0.30	ug/L	20.0		90.4	70-130			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
LCS (B4K2705-BS1) Continued				Prepared & Analyzed: 11/27/24						
1,1,2,2-Tetrachloroethane	**19.1**	0.40	ug/L	20.0		95.6	58-126			
Tetrachloroethylene (PCE)	**17.8**	0.50	ug/L	20.0		89.1	70-130			
Toluene	**17.3**	0.20	ug/L	20.0		86.4	83-118			
1,2,4-Trichlorobenzene	**18.1**	0.30	ug/L	20.0		90.7	84-128			
1,2,3-Trichlorobenzene	**18.5**	0.50	ug/L	20.0		92.4	77-134			
1,1,2-Trichloroethane	**17.6**	0.30	ug/L	20.0		88.1	75-115			
1,1,1-Trichloroethane	**17.0**	0.30	ug/L	20.0		85.2	66-158			
Trichloroethylene (TCE)	**17.3**	0.30	ug/L	20.0		86.4	82-128			
Trichlorofluoromethane (R11)	**19.3**	0.40	ug/L	20.0		96.7	65-137			
1,2,3-Trichloropropane	**18.6**	0.20	ug/L	20.0		93.1	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.5**	0.30	ug/L	20.0		87.7	62-130			
1,2,4-Trimethylbenzene	**17.3**	0.30	ug/L	20.0		86.6	70-130			
1,3,5-Trimethylbenzene	**17.2**	0.20	ug/L	20.0		86.0	70-130			
Vinyl chloride	**19.4**	0.40	ug/L	20.0		96.8	51-151			
o-Xylene	**16.9**	0.30	ug/L	20.0		84.5	70-130			
m,p-Xylenes	**34.8**	0.60	ug/L	40.0		87.1	70-130			
Surrogate: 4-Bromofluorobenzene	*45.7*		*ug/L*	*50.0*		*91.4*	*80-129*			
Surrogate: Dibromofluoromethane	*47.0*		*ug/L*	*50.0*		*94.1*	*68-137*			
Surrogate: Toluene-d8	*47.2*		*ug/L*	*50.0*		*94.4*	*83-134*			
LCS Dup (B4K2705-BSD1)				Prepared & Analyzed: 11/27/24						
Acetone	**21.1**	7.7	ug/L	20.0		106	27-123	12.9	30	J
Benzene	**18.0**	0.40	ug/L	20.0		89.8	60-134	4.03	30	
Bromobenzene	**17.7**	0.40	ug/L	20.0		88.4	70-130	1.79	30	
Bromochloromethane	**17.3**	0.20	ug/L	20.0		86.6	78-121	1.32	30	
Bromodichloromethane	**18.5**	0.40	ug/L	20.0		92.7	74-135	5.60	30	
Bromoform	**20.1**	0.40	ug/L	20.0		100	68-132	9.30	30	
Bromomethane	**20.1**	0.30	ug/L	20.0		100	58-142	13.0	30	
2-Butanone (MEK)	**16.7**	8.6	ug/L	20.0		83.5	62-138	13.6	30	J
tert-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.3	70-130	4.13	30	
n-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.3	70-130	5.95	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
LCS Dup (B4K2705-BSD1) Continued				Prepared & Analyzed: 11/27/24						
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.7	84-142	5.03	30	
Carbon Disulfide	**18.3**	0.20	ug/L	20.0		91.6	17-177	1.26	30	
Carbon Tetrachloride	**17.6**	0.30	ug/L	20.0		88.2	66-155	2.82	30	
Chlorobenzene	**17.6**	0.40	ug/L	20.0		88.2	70-130	0.396	30	
Chloroethane	**20.8**	0.40	ug/L	20.0		104	45-166	7.67	30	
Chloroform	**17.6**	0.30	ug/L	20.0		87.9	71-131	5.92	30	
Chloromethane	**20.6**	0.40	ug/L	20.0		103	48-152	12.5	30	
4-Chlorotoluene	**17.9**	0.20	ug/L	20.0		89.6	70-130	7.59	30	
2-Chlorotoluene	**17.1**	0.20	ug/L	20.0		85.5	70-130	4.73	30	
1,2-Dibromo-3-chloropropane	**19.6**	0.40	ug/L	20.0		97.8	53-145	4.55	30	
Dibromochloromethane	**18.7**	0.40	ug/L	20.0		93.6	72-133	3.62	30	
1,2-Dibromoethane (EDB)	**18.2**	0.40	ug/L	20.0		91.0	79-120	5.97	30	
Dibromomethane	**18.0**	0.40	ug/L	20.0		89.8	68-124	3.98	30	
1,3-Dichlorobenzene	**17.2**	0.40	ug/L	20.0		86.2	70-130	1.46	30	
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.0	70-130	2.07	30	
1,2-Dichlorobenzene	**18.1**	0.30	ug/L	20.0		90.5	70-130	2.23	30	
Dichlorodifluoromethane (R12)	**20.7**	0.40	ug/L	20.0		104	16-148	11.3	30	
1,1-Dichloroethane	**17.3**	0.20	ug/L	20.0		86.6	67-120	4.61	30	
1,2-Dichloroethane (EDC)	**17.6**	0.20	ug/L	20.0		88.1	57-156	3.29	30	
cis-1,2-Dichloroethylene	**17.2**	0.30	ug/L	20.0		86.0	70-124	2.71	30	
1,1-Dichloroethylene	**16.7**	0.40	ug/L	20.0		83.6	50-149	1.14	30	
trans-1,2-Dichloroethylene	**17.6**	0.30	ug/L	20.0		88.2	66-126	3.76	30	
1,3-Dichloropropane	**17.5**	0.40	ug/L	20.0		87.6	79-113	1.47	30	
1,2-Dichloropropane	**18.0**	0.30	ug/L	20.0		90.2	53-139	9.34	30	
2,2-Dichloropropane	**16.2**	0.30	ug/L	20.0		80.8	44-162	3.22	30	
trans-1,3-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.0	76-121	4.83	30	
1,1-Dichloropropylene	**17.6**	0.30	ug/L	20.0		88.2	84-124	4.70	30	
cis-1,3-Dichloropropylene	**18.2**	0.40	ug/L	20.0		91.0	67-127	1.55	30	
Ethylbenzene	**18.2**	0.30	ug/L	20.0		91.2	86-124	2.61	30	
Hexachlorobutadiene	**17.6**	0.50	ug/L	20.0		88.1	76-140	1.37	30	
2-Hexanone (MBK)	**19.0**	8.4	ug/L	20.0		94.9	52-123	6.43	30	J
Isopropylbenzene	**18.0**	0.30	ug/L	20.0		89.8	70-130	3.68	30	



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
LCS Dup (B4K2705-BSD1) Continued				Prepared & Analyzed: 11/27/24						
4-Isopropyltoluene	**18.4**	0.30	ug/L	20.0		92.0	70-130	3.71	30	
Methyl-tert-Butyl Ether (MTBE)	**36.9**	1.2	ug/L	40.0		92.3	58-144	2.12	30	
Methylene Chloride	**17.9**	4.4	ug/L	20.0		89.4	50-135	13.4	30	
4-Methyl-2-pentanone (MIBK)	**20.0**	9.8	ug/L	20.0		100	49-139	6.77	30	
Naphthalene	**20.1**	0.40	ug/L	20.0		101	74-128	3.57	30	
n-Propylbenzene	**18.7**	0.20	ug/L	20.0		93.3	70-130	4.16	30	
Styrene	**18.4**	0.20	ug/L	20.0		91.8	84-123	1.87	30	
1,1,1,2-Tetrachloroethane	**18.4**	0.30	ug/L	20.0		91.9	70-130	1.59	30	
1,1,2,2-Tetrachloroethane	**19.2**	0.40	ug/L	20.0		95.8	58-126	0.209	30	
Tetrachloroethylene (PCE)	**17.1**	0.50	ug/L	20.0		85.5	70-130	4.12	30	
Toluene	**17.5**	0.20	ug/L	20.0		87.3	83-118	1.09	30	
1,2,4-Trichlorobenzene	**17.7**	0.30	ug/L	20.0		88.6	84-128	2.34	30	
1,2,3-Trichlorobenzene	**17.5**	0.50	ug/L	20.0		87.4	77-134	5.56	30	
1,1,2-Trichloroethane	**17.9**	0.30	ug/L	20.0		89.6	75-115	1.74	30	
1,1,1-Trichloroethane	**17.6**	0.30	ug/L	20.0		88.0	66-158	3.24	30	
Trichloroethylene (TCE)	**17.4**	0.30	ug/L	20.0		86.8	82-128	0.462	30	
Trichlorofluoromethane (R11)	**21.0**	0.40	ug/L	20.0		105	65-137	8.47	30	
1,2,3-Trichloropropane	**18.7**	0.20	ug/L	20.0		93.4	68-123	0.268	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.9**	0.30	ug/L	20.0		84.4	62-130	3.83	30	
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0		89.9	70-130	3.68	30	
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0		90.8	70-130	5.37	30	
Vinyl chloride	**22.1**	0.40	ug/L	20.0		111	51-151	13.3	30	
o-Xylene	**17.2**	0.30	ug/L	20.0		86.1	70-130	1.88	30	
m,p-Xylenes	**35.5**	0.60	ug/L	40.0		88.8	70-130	1.96	30	
Surrogate: 4-Bromofluorobenzene	*47.1*		*ug/L*	*50.0*		*94.3*	*80-129*			
Surrogate: Dibromofluoromethane	*49.0*		*ug/L*	*50.0*		*97.9*	*68-137*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96.3*	*83-134*			
Matrix Spike (B4K2705-MS1)		**Source: 4K21023-02**		Prepared: 11/27/24			Analyzed: 11/28/24			
Acetone	**21.2**	7.7	ug/L	20.0	<50	106	11-169			J
Benzene	**22.3**	0.40	ug/L	20.0	1.83	102	56-135			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Matrix Spike (B4K2705-MS1) Continued Source: 4K21023-02 Prepared: 11/27/24 Analyzed: 11/28/24										
Bromobenzene	**19.0**	0.40	ug/L	20.0	<0.50	94.8	70-130			
Bromochloromethane	**17.7**	0.20	ug/L	20.0	<0.50	88.4	74-125			
Bromodichloromethane	**20.1**	0.40	ug/L	20.0	<0.50	101	68-144			
Bromoform	**19.3**	0.40	ug/L	20.0	<0.50	96.6	68-151			
Bromomethane	**20.4**	0.30	ug/L	20.0	<0.50	102	54-142			
2-Butanone (MEK)	**18.0**	8.6	ug/L	20.0	<20	89.8	62-145			J
tert-Butylbenzene	**20.5**	0.20	ug/L	20.0	<0.50	103	70-130			
n-Butylbenzene	**22.0**	0.20	ug/L	20.0	<0.50	110	70-130			
sec-Butylbenzene	**20.8**	0.20	ug/L	20.0	<0.50	104	84-145			
Carbon Disulfide	**22.2**	0.20	ug/L	20.0	<0.50	111	28-151			
Carbon Tetrachloride	**20.2**	0.30	ug/L	20.0	<0.50	101	58-164			
Chlorobenzene	**19.7**	0.40	ug/L	20.0	<0.50	98.4	70-130			
Chloroethane	**23.7**	0.40	ug/L	20.0	<0.50	118	42-164			
Chloroform	**20.0**	0.30	ug/L	20.0	<0.50	100	65-138			
Chloromethane	**22.8**	0.40	ug/L	20.0	<0.50	114	50-152			
4-Chlorotoluene	**20.2**	0.20	ug/L	20.0	<0.50	101	70-130			
2-Chlorotoluene	**19.9**	0.20	ug/L	20.0	<0.50	99.6	70-130			
1,2-Dibromo-3-chloropropane	**19.7**	0.40	ug/L	20.0	<1.0	98.5	53-161			
Dibromochloromethane	**19.2**	0.40	ug/L	20.0	<0.50	96.0	70-130			
1,2-Dibromoethane (EDB)	**18.8**	0.40	ug/L	20.0	<0.50	94.1	76-130			
Dibromomethane	**18.6**	0.40	ug/L	20.0	<0.50	93.2	62-135			
1,3-Dichlorobenzene	**18.5**	0.40	ug/L	20.0	<0.50	92.6	70-130			
1,4-Dichlorobenzene	**18.9**	0.30	ug/L	20.0	<0.50	94.4	70-130			
1,2-Dichlorobenzene	**18.8**	0.30	ug/L	20.0	<0.50	94.2	70-130			
Dichlorodifluoromethane (R12)	**22.2**	0.40	ug/L	20.0	<0.50	111	17-153			
1,1-Dichloroethane	**20.9**	0.20	ug/L	20.0	0.430	102	55-131			
1,2-Dichloroethane (EDC)	**21.7**	0.20	ug/L	20.0	2.30	96.8	52-168			
cis-1,2-Dichloroethylene	**66.4**	0.30	ug/L	20.0	42.0	122	70-130			
1,1-Dichloroethylene	**20.0**	0.40	ug/L	20.0	0.440	97.6	51-140			
trans-1,2-Dichloroethylene	**32.8**	0.30	ug/L	20.0	12.0	104	59-127			
1,3-Dichloropropane	**18.8**	0.40	ug/L	20.0	<0.50	93.8	80-121			
1,2-Dichloropropane	**19.6**	0.30	ug/L	20.0	<0.50	98.0	52-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Matrix Spike (B4K2705-MS1) Continued Source: 4K21023-02 Prepared: 11/27/24 Analyzed: 11/28/24										
2,2-Dichloropropane	**18.5**	0.30	ug/L	20.0	<0.50	92.4	36-168			
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0	<0.50	95.8	78-130			
1,1-Dichloropropylene	**20.2**	0.30	ug/L	20.0	<0.50	101	76-132			
cis-1,3-Dichloropropylene	**20.0**	0.40	ug/L	20.0	<0.50	100	66-130			
Ethylbenzene	**20.7**	0.30	ug/L	20.0	<0.50	104	86-128			
Hexachlorobutadiene	**18.0**	0.50	ug/L	20.0	<1.0	90.0	70-130			
2-Hexanone (MBK)	**19.1**	8.4	ug/L	20.0	<20	95.4	52-141			J
Isopropylbenzene	**21.0**	0.30	ug/L	20.0	<0.50	105	70-130			
4-Isopropyltoluene	**21.1**	0.30	ug/L	20.0	<1.0	105	83-149			
Methyl-tert-Butyl Ether (MTBE)	**37.6**	1.2	ug/L	40.0	<2.0	94.0	56-150			
Methylene Chloride	**17.9**	4.4	ug/L	20.0	<5.0	89.4	70-130			
4-Methyl-2-pentanone (MIBK)	**19.3**	9.8	ug/L	20.0	<20	96.7	60-148			J
Naphthalene	**18.3**	0.40	ug/L	20.0	<2.0	91.6	70-130			
n-Propylbenzene	**22.0**	0.20	ug/L	20.0	<0.50	110	70-130			
Styrene	**20.1**	0.20	ug/L	20.0	<0.50	100	65-141			
1,1,1,2-Tetrachloroethane	**19.0**	0.30	ug/L	20.0	<0.50	94.8	70-130			
1,1,2,2-Tetrachloroethane	**18.7**	0.40	ug/L	20.0	<0.50	93.4	62-134			
Tetrachloroethylene (PCE)	**18.5**	0.50	ug/L	20.0	<0.50	92.3	70-130			
Toluene	**19.8**	0.20	ug/L	20.0	<0.50	99.1	81-123			
1,2,4-Trichlorobenzene	**17.5**	0.30	ug/L	20.0	<0.50	87.6	80-137			
1,2,3-Trichlorobenzene	**16.1**	0.50	ug/L	20.0	<0.50	80.7	73-144			
1,1,2-Trichloroethane	**19.0**	0.30	ug/L	20.0	<0.50	94.9	76-122			
1,1,1-Trichloroethane	**20.8**	0.30	ug/L	20.0	<0.50	104	62-164			
Trichloroethylene (TCE)	**20.6**	0.30	ug/L	20.0	0.600	100	72-136			
Trichlorofluoromethane (R11)	**22.4**	0.40	ug/L	20.0	<0.50	112	59-144			
1,2,3-Trichloropropane	**18.0**	0.20	ug/L	20.0	<0.50	90.2	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.4**	0.30	ug/L	20.0	<0.50	91.9	62-126			
1,2,4-Trimethylbenzene	**20.3**	0.30	ug/L	20.0	<0.50	102	89-134			
1,3,5-Trimethylbenzene	**21.0**	0.20	ug/L	20.0	<0.50	105	70-130			
Vinyl chloride	**25.2**	0.40	ug/L	20.0	1.91	117	54-150			
o-Xylene	**19.0**	0.30	ug/L	20.0	<0.50	95.2	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Matrix Spike (B4K2705-MS1) Continued Source: 4K21023-02 Prepared: 11/27/24 Analyzed: 11/28/24										
m,p-Xylenes	**39.6**	0.60	ug/L	40.0	<1.0	99.0	70-130			
Surrogate: 4-Bromofluorobenzene	*48.6*		*ug/L*	*50.0*		*97.1*	*80-129*			
Surrogate: Dibromofluoromethane	*49.2*		*ug/L*	*50.0*		*98.5*	*68-137*			
Surrogate: Toluene-d8	*50.4*		*ug/L*	*50.0*		*101*	*83-134*			
Matrix Spike Dup (B4K2705-MSD1) **Source: 4K21023-02** Prepared: 11/27/24 Analyzed: 11/28/24										
Acetone	**26.2**	7.7	ug/L	20.0	<50	131	11-169	20.9	30	J
Benzene	**21.8**	0.40	ug/L	20.0	1.83	99.8	56-135	2.36	30	
Bromobenzene	**18.1**	0.40	ug/L	20.0	<0.50	90.5	70-130	4.69	30	
Bromochloromethane	**18.7**	0.20	ug/L	20.0	<0.50	93.6	74-125	5.71	30	
Bromodichloromethane	**20.6**	0.40	ug/L	20.0	<0.50	103	68-144	2.46	30	
Bromoform	**20.7**	0.40	ug/L	20.0	<0.50	104	68-151	7.04	30	
Bromomethane	**23.3**	0.30	ug/L	20.0	<0.50	117	54-142	13.3	30	
2-Butanone (MEK)	**22.6**	8.6	ug/L	20.0	<20	113	62-145	22.8	30	
tert-Butylbenzene	**19.2**	0.20	ug/L	20.0	<0.50	96.0	70-130	6.60	30	
n-Butylbenzene	**20.0**	0.20	ug/L	20.0	<0.50	99.8	70-130	9.95	30	
sec-Butylbenzene	**19.3**	0.20	ug/L	20.0	<0.50	96.7	84-145	7.47	30	
Carbon Disulfide	**20.0**	0.20	ug/L	20.0	<0.50	99.8	28-151	10.7	30	
Carbon Tetrachloride	**19.1**	0.30	ug/L	20.0	<0.50	95.3	58-164	5.71	30	
Chlorobenzene	**18.7**	0.40	ug/L	20.0	<0.50	93.4	70-130	5.26	30	
Chloroethane	**24.7**	0.40	ug/L	20.0	<0.50	124	42-164	4.25	30	
Chloroform	**19.8**	0.30	ug/L	20.0	<0.50	99.0	65-138	1.01	30	
Chloromethane	**22.8**	0.40	ug/L	20.0	<0.50	114	50-152	0.395	30	
4-Chlorotoluene	**18.8**	0.20	ug/L	20.0	<0.50	94.0	70-130	7.18	30	
2-Chlorotoluene	**18.4**	0.20	ug/L	20.0	<0.50	92.0	70-130	7.98	30	
1,2-Dibromo-3-chloropropane	**23.3**	0.40	ug/L	20.0	<1.0	116	53-161	16.6	30	
Dibromochloromethane	**19.8**	0.40	ug/L	20.0	<0.50	98.8	70-130	2.93	30	
1,2-Dibromoethane (EDB)	**20.2**	0.40	ug/L	20.0	<0.50	101	76-130	7.27	30	
Dibromomethane	**20.5**	0.40	ug/L	20.0	<0.50	102	62-135	9.36	30	
1,3-Dichlorobenzene	**17.6**	0.40	ug/L	20.0	<0.50	88.2	70-130	4.92	30	
1,4-Dichlorobenzene	**17.7**	0.30	ug/L	20.0	<0.50	88.4	70-130	6.67	30	
1,2-Dichlorobenzene	**18.3**	0.30	ug/L	20.0	<0.50	91.3	70-130	3.13	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Matrix Spike Dup (B4K2705-MSD1) Continued	**Source: 4K21023-02**			Prepared: 11/27/24		Analyzed: 11/28/24				
Dichlorodifluoromethane (R12)	**23.0**	0.40	ug/L	20.0	<0.50	115	17-153	3.63	30	
1,1-Dichloroethane	**19.6**	0.20	ug/L	20.0	0.430	96.0	55-131	6.07	30	
1,2-Dichloroethane (EDC)	**23.2**	0.20	ug/L	20.0	2.30	104	52-168	6.65	30	
cis-1,2-Dichloroethylene	**67.8**	0.30	ug/L	20.0	42.0	129	70-130	2.01	30	
1,1-Dichloroethylene	**18.6**	0.40	ug/L	20.0	0.440	90.8	51-140	7.16	30	
trans-1,2-Dichloroethylene	**31.7**	0.30	ug/L	20.0	12.0	98.5	59-127	3.56	30	
1,3-Dichloropropane	**19.8**	0.40	ug/L	20.0	<0.50	99.0	80-121	5.39	30	
1,2-Dichloropropane	**20.4**	0.30	ug/L	20.0	<0.50	102	52-142	3.70	30	
2,2-Dichloropropane	**16.9**	0.30	ug/L	20.0	<0.50	84.6	36-168	8.70	30	
trans-1,3-Dichloropropylene	**19.5**	0.30	ug/L	20.0	<0.50	97.4	78-130	1.66	30	
1,1-Dichloropropylene	**19.1**	0.30	ug/L	20.0	<0.50	95.6	76-132	5.39	30	
cis-1,3-Dichloropropylene	**20.0**	0.40	ug/L	20.0	<0.50	100	66-130	0.300	30	
Ethylbenzene	**19.2**	0.30	ug/L	20.0	<0.50	96.0	86-128	7.67	30	
Hexachlorobutadiene	**17.8**	0.50	ug/L	20.0	<1.0	89.1	70-130	1.06	30	
2-Hexanone (MBK)	**22.0**	8.4	ug/L	20.0	<20	110	52-141	14.1	30	
Isopropylbenzene	**19.6**	0.30	ug/L	20.0	<0.50	98.2	70-130	6.98	30	
4-Isopropyltoluene	**19.4**	0.30	ug/L	20.0	<1.0	97.0	83-149	8.35	30	
Methyl-tert-Butyl Ether (MTBE)	**43.6**	1.2	ug/L	40.0	<2.0	109	56-150	14.7	30	
Methylene Chloride	**17.6**	4.4	ug/L	20.0	<5.0	88.1	70-130	1.41	30	
4-Methyl-2-pentanone (MIBK)	**21.9**	9.8	ug/L	20.0	<20	110	60-148	12.4	30	
Naphthalene	**21.9**	0.40	ug/L	20.0	<2.0	110	70-130	17.8	30	
n-Propylbenzene	**20.2**	0.20	ug/L	20.0	<0.50	101	70-130	8.56	30	
Styrene	**19.1**	0.20	ug/L	20.0	<0.50	95.4	65-141	5.21	30	
1,1,1,2-Tetrachloroethane	**18.1**	0.30	ug/L	20.0	<0.50	90.5	70-130	4.59	30	
1,1,2,2-Tetrachloroethane	**21.6**	0.40	ug/L	20.0	<0.50	108	62-134	14.3	30	
Tetrachloroethylene (PCE)	**16.9**	0.50	ug/L	20.0	<0.50	84.6	70-130	8.65	30	
Toluene	**18.1**	0.20	ug/L	20.0	<0.50	90.4	81-123	9.13	30	
1,2,4-Trichlorobenzene	**18.0**	0.30	ug/L	20.0	<0.50	90.0	80-137	2.70	30	
1,2,3-Trichlorobenzene	**18.2**	0.50	ug/L	20.0	<0.50	91.2	73-144	12.2	30	
1,1,2-Trichloroethane	**20.0**	0.30	ug/L	20.0	<0.50	99.8	76-122	5.08	30	
1,1,1-Trichloroethane	**19.6**	0.30	ug/L	20.0	<0.50	98.0	62-164	6.03	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K2705 - EPA 5030B										
Matrix Spike Dup (B4K2705-MSD1) Continued			**Source: 4K21023-02**	Prepared: 11/27/24		Analyzed: 11/28/24				
Trichloroethylene (TCE)	**19.9**	0.30	ug/L	20.0	0.600	96.6	72-136	3.31	30	
Trichlorofluoromethane (R11)	**24.1**	0.40	ug/L	20.0	<0.50	120	59-144	7.13	30	
1,2,3-Trichloropropane	**21.3**	0.20	ug/L	20.0	<0.50	107	69-135	16.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.0**	0.30	ug/L	20.0	<0.50	89.9	62-126	2.20	30	
1,2,4-Trimethylbenzene	**19.3**	0.30	ug/L	20.0	<0.50	96.6	89-134	5.14	30	
1,3,5-Trimethylbenzene	**19.1**	0.20	ug/L	20.0	<0.50	95.4	70-130	9.49	30	
Vinyl chloride	**27.0**	0.40	ug/L	20.0	1.91	126	54-150	6.77	30	
o-Xylene	**18.2**	0.30	ug/L	20.0	<0.50	91.0	70-130	4.56	30	
m,p-Xylenes	**37.4**	0.60	ug/L	40.0	<1.0	93.4	70-130	5.79	30	
Surrogate: 4-Bromofluorobenzene	*49.1*		*ug/L*	*50.0*		*98.1*	*80-129*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.0*		*105*	*68-137*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*98.9*	*83-134*			
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1)				Prepared & Analyzed: 12/02/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.0*		*96.2*	*80-129*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*68-137*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95.0*	*83-134*			
LCS (B4L0226-BS1)				Prepared & Analyzed: 12/02/24						
Acetone	**21.9**	7.7	ug/L	20.0		110	27-123			J
Benzene	**17.1**	0.40	ug/L	20.0		85.7	60-134			
Bromobenzene	**17.8**	0.40	ug/L	20.0		89.0	70-130			
Bromochloromethane	**16.6**	0.20	ug/L	20.0		83.1	78-121			
Bromodichloromethane	**17.0**	0.40	ug/L	20.0		85.0	74-135			
Bromoform	**20.2**	0.40	ug/L	20.0		101	68-132			
Bromomethane	**17.8**	0.30	ug/L	20.0		89.2	58-142			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
2-Butanone (MEK)	**15.4**	8.6	ug/L	20.0		77.2	62-138			J
tert-Butylbenzene	**18.0**	0.20	ug/L	20.0		90.2	70-130			
n-Butylbenzene	**18.6**	0.20	ug/L	20.0		92.8	70-130			
sec-Butylbenzene	**17.8**	0.20	ug/L	20.0		88.8	84-142			
Carbon Disulfide	**18.6**	0.20	ug/L	20.0		93.2	17-177			
Carbon Tetrachloride	**18.1**	0.30	ug/L	20.0		90.3	66-155			
Chlorobenzene	**18.0**	0.40	ug/L	20.0		90.1	70-130			
Chloroethane	**18.6**	0.40	ug/L	20.0		93.0	45-166			
Chloroform	**16.8**	0.30	ug/L	20.0		83.8	71-131			
Chloromethane	**16.7**	0.40	ug/L	20.0		83.3	48-152			
4-Chlorotoluene	**17.6**	0.20	ug/L	20.0		88.0	70-130			
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.6	70-130			
1,2-Dibromo-3-chloropropane	**17.6**	0.40	ug/L	20.0		87.8	53-145			
Dibromochloromethane	**18.9**	0.40	ug/L	20.0		94.6	72-133			
1,2-Dibromoethane (EDB)	**17.5**	0.40	ug/L	20.0		87.4	79-120			
Dibromomethane	**16.2**	0.40	ug/L	20.0		81.0	68-124			
1,3-Dichlorobenzene	**17.6**	0.40	ug/L	20.0		88.0	70-130			
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130			
1,2-Dichlorobenzene	**17.8**	0.30	ug/L	20.0		89.2	70-130			
Dichlorodifluoromethane (R12)	**15.9**	0.40	ug/L	20.0		79.6	16-148			
1,1-Dichloroethane	**16.8**	0.20	ug/L	20.0		84.0	67-120			
1,2-Dichloroethane (EDC)	**16.3**	0.20	ug/L	20.0		81.6	57-156			
cis-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.6	70-124			
1,1-Dichloroethylene	**17.0**	0.40	ug/L	20.0		85.1	50-149			
trans-1,2-Dichloroethylene	**17.5**	0.30	ug/L	20.0		87.7	66-126			
1,3-Dichloropropane	**16.2**	0.40	ug/L	20.0		81.0	79-113			
1,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		80.0	53-139			
2,2-Dichloropropane	**17.1**	0.30	ug/L	20.0		85.5	44-162			
trans-1,3-Dichloropropylene	**18.3**	0.30	ug/L	20.0		91.4	76-121			
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124			
cis-1,3-Dichloropropylene	**17.2**	0.40	ug/L	20.0		86.2	67-127			
Ethylbenzene	**18.4**	0.30	ug/L	20.0		91.8	86-124			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
Hexachlorobutadiene	**18.9**	0.50	ug/L	20.0		94.4	76-140			
2-Hexanone (MBK)	**16.2**	8.4	ug/L	20.0		81.0	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
4-Isopropyltoluene	**18.4**	0.30	ug/L	20.0		91.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**33.9**	1.2	ug/L	40.0		84.7	58-144			
Methylene Chloride	**16.5**	4.4	ug/L	20.0		82.5	50-135			
4-Methyl-2-pentanone (MIBK)	**15.4**	9.8	ug/L	20.0		77.0	49-139			J
Naphthalene	**18.4**	0.40	ug/L	20.0		92.2	74-128			
n-Propylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130			
Styrene	**18.2**	0.20	ug/L	20.0		91.0	84-123			
1,1,1,2-Tetrachloroethane	**18.6**	0.30	ug/L	20.0		93.2	70-130			
1,1,2,2-Tetrachloroethane	**16.9**	0.40	ug/L	20.0		84.4	58-126			
Tetrachloroethylene (PCE)	**18.6**	0.50	ug/L	20.0		92.8	70-130			
Toluene	**17.8**	0.20	ug/L	20.0		88.8	83-118			
1,2,4-Trichlorobenzene	**18.2**	0.30	ug/L	20.0		90.9	84-128			
1,2,3-Trichlorobenzene	**17.8**	0.50	ug/L	20.0		89.0	77-134			
1,1,2-Trichloroethane	**17.0**	0.30	ug/L	20.0		85.2	75-115			
1,1,1-Trichloroethane	**17.3**	0.30	ug/L	20.0		86.4	66-158			
Trichloroethylene (TCE)	**17.0**	0.30	ug/L	20.0		85.2	82-128			
Trichlorofluoromethane (R11)	**19.8**	0.40	ug/L	20.0		99.2	65-137			
1,2,3-Trichloropropane	**16.8**	0.20	ug/L	20.0		84.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.1**	0.30	ug/L	20.0		85.5	62-130			
1,2,4-Trimethylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
1,3,5-Trimethylbenzene	**17.9**	0.20	ug/L	20.0		89.6	70-130			
Vinyl chloride	**19.3**	0.40	ug/L	20.0		96.3	51-151			
o-Xylene	**17.5**	0.30	ug/L	20.0		87.4	70-130			
m,p-Xylenes	**36.3**	0.60	ug/L	40.0		90.7	70-130			
Surrogate: 4-Bromofluorobenzene	*44.7*		*ug/L*	*50.0*		*89.5*	*80-129*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.0*		*92.5*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*95.9*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1)				Prepared & Analyzed: 12/02/24						
Acetone	**32.0**	7.7	ug/L	20.0		160	27-123	37.3	30	QL-03, J
Benzene	**19.2**	0.40	ug/L	20.0		96.0	60-134	11.4	30	
Bromobenzene	**17.9**	0.40	ug/L	20.0		89.6	70-130	0.672	30	
Bromochloromethane	**20.9**	0.20	ug/L	20.0		104	78-121	22.7	30	
Bromodichloromethane	**21.1**	0.40	ug/L	20.0		106	74-135	21.6	30	
Bromoform	**23.5**	0.40	ug/L	20.0		118	68-132	15.2	30	
Bromomethane	**21.7**	0.30	ug/L	20.0		109	58-142	19.6	30	
2-Butanone (MEK)	**23.5**	8.6	ug/L	20.0		117	62-138	41.3	30	QR-02
tert-Butylbenzene	**17.2**	0.20	ug/L	20.0		86.0	70-130	4.83	30	
n-Butylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130	0.757	30	
sec-Butylbenzene	**17.7**	0.20	ug/L	20.0		88.5	84-142	0.338	30	
Carbon Disulfide	**17.8**	0.20	ug/L	20.0		89.0	17-177	4.56	30	
Carbon Tetrachloride	**18.2**	0.30	ug/L	20.0		91.2	66-155	0.937	30	
Chlorobenzene	**17.6**	0.40	ug/L	20.0		88.2	70-130	2.19	30	
Chloroethane	**22.5**	0.40	ug/L	20.0		113	45-166	19.0	30	
Chloroform	**18.9**	0.30	ug/L	20.0		94.6	71-131	12.0	30	
Chloromethane	**20.0**	0.40	ug/L	20.0		100	48-152	18.2	30	
4-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.1	70-130	2.24	30	
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.5	70-130	0.179	30	
1,2-Dibromo-3-chloropropane	**24.4**	0.40	ug/L	20.0		122	53-145	32.3	30	QR-02
Dibromochloromethane	**21.0**	0.40	ug/L	20.0		105	72-133	10.2	30	
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120	18.1	30	
Dibromomethane	**22.8**	0.40	ug/L	20.0		114	68-124	33.9	30	QR-02
1,3-Dichlorobenzene	**17.4**	0.40	ug/L	20.0		87.2	70-130	0.913	30	
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130	0.00	30	
1,2-Dichlorobenzene	**18.7**	0.30	ug/L	20.0		93.6	70-130	4.76	30	
Dichlorodifluoromethane (R12)	**19.3**	0.40	ug/L	20.0		96.6	16-148	19.3	30	
1,1-Dichloroethane	**18.6**	0.20	ug/L	20.0		92.8	67-120	9.95	30	
1,2-Dichloroethane (EDC)	**22.6**	0.20	ug/L	20.0		113	57-156	32.1	30	QR-02
cis-1,2-Dichloroethylene	**19.0**	0.30	ug/L	20.0		95.2	70-124	11.7	30	
1,1-Dichloroethylene	**16.7**	0.40	ug/L	20.0		83.6	50-149	1.84	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
trans-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0		89.9	66-126	2.48	30	
1,3-Dichloropropane	**20.4**	0.40	ug/L	20.0		102	79-113	22.9	30	
1,2-Dichloropropane	**21.0**	0.30	ug/L	20.0		105	53-139	26.9	30	
2,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		79.8	44-162	6.83	30	
trans-1,3-Dichloropropylene	**19.8**	0.30	ug/L	20.0		99.0	76-121	8.03	30	
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124	0.117	30	
cis-1,3-Dichloropropylene	**21.5**	0.40	ug/L	20.0		107	67-127	21.8	30	
Ethylbenzene	**17.5**	0.30	ug/L	20.0		87.6	86-124	4.74	30	
Hexachlorobutadiene	**17.6**	0.50	ug/L	20.0		88.1	76-140	6.90	30	
2-Hexanone (MBK)	**23.0**	8.4	ug/L	20.0		115	52-123	34.7	30	QR-02
Isopropylbenzene	**17.2**	0.30	ug/L	20.0		85.8	70-130	5.11	30	
4-Isopropyltoluene	**17.4**	0.30	ug/L	20.0		87.0	70-130	5.26	30	
Methyl-tert-Butyl Ether (MTBE)	**48.9**	1.2	ug/L	40.0		122	58-144	36.3	30	QR-02
Methylene Chloride	**24.4**	4.4	ug/L	20.0		122	50-135	38.7	30	QR-02
4-Methyl-2-pentanone (MIBK)	**28.6**	9.8	ug/L	20.0		143	49-139	59.8	30	QL-03
Naphthalene	**24.0**	0.40	ug/L	20.0		120	74-128	26.1	30	
n-Propylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	4.21	30	
Styrene	**18.5**	0.20	ug/L	20.0		92.6	84-123	1.69	30	
1,1,1,2-Tetrachloroethane	**18.9**	0.30	ug/L	20.0		94.5	70-130	1.39	30	
1,1,2,2-Tetrachloroethane	**23.0**	0.40	ug/L	20.0		115	58-126	30.4	30	QR-02
Tetrachloroethylene (PCE)	**15.8**	0.50	ug/L	20.0		79.2	70-130	15.9	30	
Toluene	**16.5**	0.20	ug/L	20.0		82.4	83-118	7.59	30	QL-03
1,2,4-Trichlorobenzene	**19.2**	0.30	ug/L	20.0		96.2	84-128	5.72	30	
1,2,3-Trichlorobenzene	**20.3**	0.50	ug/L	20.0		102	77-134	13.3	30	
1,1,2-Trichloroethane	**20.0**	0.30	ug/L	20.0		100	75-115	15.9	30	
1,1,1-Trichloroethane	**18.3**	0.30	ug/L	20.0		91.3	66-158	5.46	30	
Trichloroethylene (TCE)	**18.3**	0.30	ug/L	20.0		91.4	82-128	6.96	30	
Trichlorofluoromethane (R11)	**24.0**	0.40	ug/L	20.0		120	65-137	18.8	30	
1,2,3-Trichloropropane	**22.7**	0.20	ug/L	20.0		114	68-123	29.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.5**	0.30	ug/L	20.0		87.4	62-130	2.20	30	
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0		89.8	70-130	0.722	30	

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
1,3,5-Trimethylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	1.41	30	
Vinyl chloride	**23.1**	0.40	ug/L	20.0		116	51-151	18.2	30	
o-Xylene	**17.1**	0.30	ug/L	20.0		85.4	70-130	2.37	30	
m,p-Xylenes	**34.3**	0.60	ug/L	40.0		85.8	70-130	5.58	30	
Surrogate: 4-Bromofluorobenzene	*47.7*		*ug/L*	*50.0*		*95.3*	*80-129*			
Surrogate: Dibromofluoromethane	*56.0*		*ug/L*	*50.0*		*112*	*68-137*			
Surrogate: Toluene-d8	*46.8*		*ug/L*	*50.0*		*93.6*	*83-134*			
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1)				Prepared & Analyzed: 12/04/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1) Continued				Prepared & Analyzed: 12/04/24						
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1) Continued				Prepared & Analyzed: 12/04/24						
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*45.3*		*ug/L*	*50.0*		*90.6*	*80-129*			
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93.1*	*68-137*			
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.0*		*96.8*	*83-134*			
LCS (B4L0420-BS1)				Prepared & Analyzed: 12/04/24						
Acetone	**19.7**	7.7	ug/L	20.0		98.5	27-123			J
Benzene	**16.8**	0.40	ug/L	20.0		84.2	60-134			
Bromobenzene	**18.7**	0.40	ug/L	20.0		93.7	70-130			
Bromochloromethane	**16.7**	0.20	ug/L	20.0		83.6	78-121			
Bromodichloromethane	**16.3**	0.40	ug/L	20.0		81.3	74-135			
Bromoform	**20.6**	0.40	ug/L	20.0		103	68-132			
Bromomethane	**17.6**	0.30	ug/L	20.0		88.0	58-142			
2-Butanone (MEK)	**15.1**	8.6	ug/L	20.0		75.3	62-138			J
tert-Butylbenzene	**18.7**	0.20	ug/L	20.0		93.4	70-130			
n-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.4	70-130			
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.3	84-142			
Carbon Disulfide	**18.0**	0.20	ug/L	20.0		89.8	17-177			
Carbon Tetrachloride	**17.5**	0.30	ug/L	20.0		87.4	66-155			
Chlorobenzene	**18.8**	0.40	ug/L	20.0		93.8	70-130			



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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS (B4L0420-BS1) Continued				Prepared & Analyzed: 12/04/24						
Chloroethane	**17.6**	0.40	ug/L	20.0		88.2	45-166			
Chloroform	**16.1**	0.30	ug/L	20.0		80.5	71-131			
Chloromethane	**15.2**	0.40	ug/L	20.0		76.2	48-152			
4-Chlorotoluene	**17.4**	0.20	ug/L	20.0		87.1	70-130			
2-Chlorotoluene	**17.0**	0.20	ug/L	20.0		84.8	70-130			
1,2-Dibromo-3-chloropropane	**16.3**	0.40	ug/L	20.0		81.7	53-145			
Dibromochloromethane	**19.0**	0.40	ug/L	20.0		94.8	72-133			
1,2-Dibromoethane (EDB)	**17.3**	0.40	ug/L	20.0		86.7	79-120			
Dibromomethane	**15.2**	0.40	ug/L	20.0		75.9	68-124			
1,3-Dichlorobenzene	**18.1**	0.40	ug/L	20.0		90.6	70-130			
1,4-Dichlorobenzene	**18.4**	0.30	ug/L	20.0		91.9	70-130			
1,2-Dichlorobenzene	**18.6**	0.30	ug/L	20.0		93.2	70-130			
Dichlorodifluoromethane (R12)	**10.3**	0.40	ug/L	20.0		51.4	16-148			
1,1-Dichloroethane	**15.9**	0.20	ug/L	20.0		79.4	67-120			
1,2-Dichloroethane (EDC)	**15.2**	0.20	ug/L	20.0		76.2	57-156			
cis-1,2-Dichloroethylene	**16.4**	0.30	ug/L	20.0		82.2	70-124			
1,1-Dichloroethylene	**16.5**	0.40	ug/L	20.0		82.4	50-149			
trans-1,2-Dichloroethylene	**16.8**	0.30	ug/L	20.0		83.8	66-126			
1,3-Dichloropropane	**16.6**	0.40	ug/L	20.0		83.2	79-113			
1,2-Dichloropropane	**15.2**	0.30	ug/L	20.0		76.2	53-139			
2,2-Dichloropropane	**16.8**	0.30	ug/L	20.0		84.2	44-162			
trans-1,3-Dichloropropylene	**18.2**	0.30	ug/L	20.0		91.2	76-121			
1,1-Dichloropropylene	**16.7**	0.30	ug/L	20.0		83.4	84-124			QL-05A
cis-1,3-Dichloropropylene	**16.7**	0.40	ug/L	20.0		83.6	67-127			
Ethylbenzene	**18.8**	0.30	ug/L	20.0		94.0	86-124			
Hexachlorobutadiene	**20.5**	0.50	ug/L	20.0		103	76-140			
2-Hexanone (MBK)	**14.8**	8.4	ug/L	20.0		74.2	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.5	70-130			
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0		95.1	70-130			
Methyl-tert-Butyl Ether (MTBE)	**31.8**	1.2	ug/L	40.0		79.5	58-144			
Methylene Chloride	**15.4**	4.4	ug/L	20.0		77.1	50-135			
4-Methyl-2-pentanone (MIBK)	**15.6**	9.8	ug/L	20.0		77.9	49-139			J



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS (B4L0420-BS1) Continued				Prepared & Analyzed: 12/04/24						
Naphthalene	**18.6**	0.40	ug/L	20.0		93.1	74-128			
n-Propylbenzene	**18.6**	0.20	ug/L	20.0		93.1	70-130			
Styrene	**18.8**	0.20	ug/L	20.0		93.8	84-123			
1,1,1,2-Tetrachloroethane	**19.5**	0.30	ug/L	20.0		97.4	70-130			
1,1,2,2-Tetrachloroethane	**16.7**	0.40	ug/L	20.0		83.5	58-126			
Tetrachloroethylene (PCE)	**20.0**	0.50	ug/L	20.0		100	70-130			
Toluene	**17.8**	0.20	ug/L	20.0		89.1	83-118			
1,2,4-Trichlorobenzene	**20.0**	0.30	ug/L	20.0		100	84-128			
1,2,3-Trichlorobenzene	**19.1**	0.50	ug/L	20.0		95.4	77-134			
1,1,2-Trichloroethane	**16.8**	0.30	ug/L	20.0		83.8	75-115			
1,1,1-Trichloroethane	**17.1**	0.30	ug/L	20.0		85.6	66-158			
Trichloroethylene (TCE)	**16.2**	0.30	ug/L	20.0		81.2	82-128			QL-05A
Trichlorofluoromethane (R11)	**15.2**	0.40	ug/L	20.0		75.8	65-137			
1,2,3-Trichloropropane	**16.2**	0.20	ug/L	20.0		81.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.9**	0.30	ug/L	20.0		79.5	62-130			
1,2,4-Trimethylbenzene	**18.2**	0.30	ug/L	20.0		90.8	70-130			
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0		91.2	70-130			
Vinyl chloride	**17.8**	0.40	ug/L	20.0		89.0	51-151			
o-Xylene	**18.3**	0.30	ug/L	20.0		91.3	70-130			
m,p-Xylenes	**37.8**	0.60	ug/L	40.0		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	*43.8*		*ug/L*	*50.0*		*87.7*	*80-129*			
Surrogate: Dibromofluoromethane	*42.6*		*ug/L*	*50.0*		*85.2*	*68-137*			
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95.4*	*83-134*			
LCS Dup (B4L0420-BSD1)				Prepared & Analyzed: 12/04/24						
Acetone	**20.3**	7.7	ug/L	20.0		102	27-123	3.10	30	J
Benzene	**16.8**	0.40	ug/L	20.0		83.9	60-134	0.416	30	
Bromobenzene	**19.9**	0.40	ug/L	20.0		99.3	70-130	5.80	30	
Bromochloromethane	**17.0**	0.20	ug/L	20.0		84.8	78-121	1.37	30	
Bromodichloromethane	**16.2**	0.40	ug/L	20.0		81.0	74-135	0.308	30	
Bromoform	**22.6**	0.40	ug/L	20.0		113	68-132	9.16	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS Dup (B4L0420-BSD1) Continued				Prepared & Analyzed: 12/04/24						
Bromomethane	**17.3**	0.30	ug/L	20.0		86.5	58-142	1.78	30	
2-Butanone (MEK)	**16.4**	8.6	ug/L	20.0		81.8	62-138	8.27	30	J
tert-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.6	70-130	1.22	30	
n-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.4	70-130	0.00	30	
sec-Butylbenzene	**18.5**	0.20	ug/L	20.0		92.4	84-142	2.35	30	
Carbon Disulfide	**17.9**	0.20	ug/L	20.0		89.6	17-177	0.223	30	
Carbon Tetrachloride	**16.9**	0.30	ug/L	20.0		84.6	66-155	3.26	30	
Chlorobenzene	**19.0**	0.40	ug/L	20.0		94.8	70-130	1.01	30	
Chloroethane	**17.2**	0.40	ug/L	20.0		86.2	45-166	2.29	30	
Chloroform	**15.8**	0.30	ug/L	20.0		79.2	71-131	1.69	30	
Chloromethane	**16.4**	0.40	ug/L	20.0		82.0	48-152	7.39	30	
4-Chlorotoluene	**17.9**	0.20	ug/L	20.0		89.4	70-130	2.66	30	
2-Chlorotoluene	**17.4**	0.20	ug/L	20.0		86.8	70-130	2.27	30	
1,2-Dibromo-3-chloropropane	**18.5**	0.40	ug/L	20.0		92.6	53-145	12.5	30	
Dibromochloromethane	**20.0**	0.40	ug/L	20.0		99.8	72-133	5.09	30	
1,2-Dibromoethane (EDB)	**19.0**	0.40	ug/L	20.0		94.9	79-120	9.03	30	
Dibromomethane	**15.9**	0.40	ug/L	20.0		79.7	68-124	4.88	30	
1,3-Dichlorobenzene	**19.0**	0.40	ug/L	20.0		95.1	70-130	4.90	30	
1,4-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.0	70-130	3.37	30	
1,2-Dichlorobenzene	**19.2**	0.30	ug/L	20.0		96.0	70-130	2.91	30	
Dichlorodifluoromethane (R12)	**10.6**	0.40	ug/L	20.0		53.2	16-148	3.34	30	
1,1-Dichloroethane	**15.5**	0.20	ug/L	20.0		77.6	67-120	2.42	30	
1,2-Dichloroethane (EDC)	**15.2**	0.20	ug/L	20.0		75.9	57-156	0.394	30	
cis-1,2-Dichloroethylene	**16.3**	0.30	ug/L	20.0		81.6	70-124	0.733	30	
1,1-Dichloroethylene	**16.4**	0.40	ug/L	20.0		82.0	50-149	0.608	30	
trans-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.3	66-126	0.595	30	
1,3-Dichloropropane	**17.5**	0.40	ug/L	20.0		87.6	79-113	5.15	30	
1,2-Dichloropropane	**15.4**	0.30	ug/L	20.0		77.0	53-139	0.914	30	
2,2-Dichloropropane	**16.5**	0.30	ug/L	20.0		82.3	44-162	2.22	30	
trans-1,3-Dichloropropylene	**19.1**	0.30	ug/L	20.0		95.6	76-121	4.71	30	
1,1-Dichloropropylene	**16.0**	0.30	ug/L	20.0		80.2	84-124	3.91	30	QL-05A
cis-1,3-Dichloropropylene	**16.6**	0.40	ug/L	20.0		82.8	67-127	1.08	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS Dup (B4L0420-BSD1) Continued				Prepared & Analyzed: 12/04/24						
Ethylbenzene	**19.2**	0.30	ug/L	20.0		96.2	86-124	2.37	30	
Hexachlorobutadiene	**19.9**	0.50	ug/L	20.0		99.6	76-140	3.11	30	
2-Hexanone (MBK)	**18.1**	8.4	ug/L	20.0		90.4	52-123	19.8	30	J
Isopropylbenzene	**18.4**	0.30	ug/L	20.0		92.2	70-130	1.81	30	
4-Isopropyltoluene	**19.5**	0.30	ug/L	20.0		97.4	70-130	2.34	30	
Methyl-tert-Butyl Ether (MTBE)	**34.6**	1.2	ug/L	40.0		86.6	58-144	8.55	30	
Methylene Chloride	**15.4**	4.4	ug/L	20.0		76.8	50-135	0.325	30	
4-Methyl-2-pentanone (MIBK)	**18.2**	9.8	ug/L	20.0		91.0	49-139	15.5	30	J
Naphthalene	**20.9**	0.40	ug/L	20.0		105	74-128	11.7	30	
n-Propylbenzene	**19.1**	0.20	ug/L	20.0		95.6	70-130	2.70	30	
Styrene	**19.2**	0.20	ug/L	20.0		96.2	84-123	2.58	30	
1,1,1,2-Tetrachloroethane	**19.4**	0.30	ug/L	20.0		97.0	70-130	0.309	30	
1,1,2,2-Tetrachloroethane	**18.3**	0.40	ug/L	20.0		91.5	58-126	9.14	30	
Tetrachloroethylene (PCE)	**20.4**	0.50	ug/L	20.0		102	70-130	1.98	30	
Toluene	**18.5**	0.20	ug/L	20.0		92.5	83-118	3.74	30	
1,2,4-Trichlorobenzene	**19.7**	0.30	ug/L	20.0		98.5	84-128	1.51	30	
1,2,3-Trichlorobenzene	**20.1**	0.50	ug/L	20.0		100	77-134	5.06	30	
1,1,2-Trichloroethane	**18.0**	0.30	ug/L	20.0		90.0	75-115	7.14	30	
1,1,1-Trichloroethane	**16.4**	0.30	ug/L	20.0		82.0	66-158	4.24	30	
Trichloroethylene (TCE)	**15.9**	0.30	ug/L	20.0		79.5	82-128	2.18	30	QL-05A
Trichlorofluoromethane (R11)	**17.0**	0.40	ug/L	20.0		85.2	65-137	11.7	30	
1,2,3-Trichloropropane	**18.0**	0.20	ug/L	20.0		90.2	68-123	10.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.0**	0.30	ug/L	20.0		75.2	62-130	5.63	30	
1,2,4-Trimethylbenzene	**18.7**	0.30	ug/L	20.0		93.4	70-130	2.82	30	
1,3,5-Trimethylbenzene	**18.6**	0.20	ug/L	20.0		93.2	70-130	2.12	30	
Vinyl chloride	**16.3**	0.40	ug/L	20.0		81.6	51-151	8.62	30	
o-Xylene	**18.6**	0.30	ug/L	20.0		92.8	70-130	1.63	30	
m,p-Xylenes	**38.0**	0.60	ug/L	40.0		94.9	70-130	0.449	30	
Surrogate: 4-Bromofluorobenzene	*44.2*		*ug/L*	*50.0*		*88.3*	*80-129*			
Surrogate: Dibromofluoromethane	*41.0*		*ug/L*	*50.0*		*82.0*	*68-137*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874672
Date Received: 11/21/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS Dup (B4L0420-BSD1) Continued				Prepared & Analyzed: 12/04/24						
Surrogate: Toluene-d8	*47.9*		*ug/L*	*50.0*		*95.8*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874672
Project No:	130072-025	**Date Received:**	11/21/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24

Special Notes

J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] = O-01	:	This compound is a possible field or laboratory contaminant.
[2] = QL-03	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] = QL-05	:	The recovery for this analyte in the LCS and LCSD is marginally below the lower control limit. Analysis of a low concentration standard validated the ability of the analytical system to detect the analyte at the LOD or MRL.
[4] = QR-02	:	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
[5] = S-07	:	Surrogate recovery is slightly outside of the upper control limit. Since the analyte was not detected in the sample, the data is not significantly affected.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4K22040

Project Name: American Analytics
Project Number: Cooper Drum

P.O. #:

Report Date: 12/09/2024
Received Date: 11/22/2024 11:04 am
Turnaround Time: Normal
Billing Code:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: EW-A-112024

4K22040-01 (Water) — Sampled: 11/20/24 8:25 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		30	ug/l	1	11/24/24	R-01

Sample: EW-04-112024

4K22040-02 (Water) — Sampled: 11/20/24 8:48 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		25	ug/l	1	11/24/24	R-01

Sample: EW-07A-112024

4K22040-03 (Water) — Sampled: 11/20/24 9:30 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50			**Analyst:** JAN	
1,2,3-Trichloropropane	0.017		0.0050	ug/l	1	11/24/24	

Sample Results

(Continued)

Sample: EW-07B-112024

4K22040-04 (Water) — Sampled: 11/20/24 9:45 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	0.047		0.0050	ug/l	1	11/24/24	

Sample: QC08-112024

4K22040-05 (Water) — Sampled: 11/20/24 9:50 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	0.048		0.0050	ug/l	1	11/24/24	

Sample: MW-60A-112024

4K22040-06 (Water) — Sampled: 11/20/24 10:40 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	0.023		0.0050	ug/l	1	11/24/24	

Sample: MW-60B-112024

4K22040-07 (Water) — Sampled: 11/20/24 11:13 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	0.048		0.0050	ug/l	1	11/24/24	

Sample Results

(Continued)

Sample: MW-62A-112024

4K22040-08 (Water) — Sampled: 11/20/24 12:03 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	ND		10	ug/l	1	11/24/24	R-01

Sample: MW-62B-112024

4K22040-09 (Water) — Sampled: 11/20/24 12:43 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1893 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:50				**Analyst:** JAN
1,2,3-Trichloropropane	0.015		0.0050	ug/l	1	11/24/24	

Sample: PZ-7A-112024

4K22040-10 (Water) — Sampled: 11/20/24 13:28 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52				**Analyst:** JAN
1,2,3-Trichloropropane	0.023		0.0050	ug/l	1	11/24/24	

Sample: MW-161R-112024

4K22040-11 (Water) — Sampled: 11/20/24 8:35 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample Results

(Continued)

Sample: MW-15B-112024

4K22040-12 (Water) — Sampled: 11/20/24 9:36 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52			**Analyst:** JAN	
1,2,3-Trichloropropane	0.23		0.0050	ug/l	1	11/24/24	

Sample: MW-17-112024

4K22040-13 (Water) — Sampled: 11/20/24 10:42 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample: EW-05-112024

4K22040-14 (Water) — Sampled: 11/20/24 11:57 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52			**Analyst:** JAN	
1,2,3-Trichloropropane	0.011		0.0050	ug/l	1	11/24/24	

Sample: MW-23-112024

4K22040-15 (Water) — Sampled: 11/20/24 12:49 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52			**Analyst:** JAN	
1,2,3-Trichloropropane	0.0082		0.0050	ug/l	1	11/24/24	

Sample Results

(Continued)

Sample: QC09-112024

4K22040-16 (Water) — Sampled: 11/20/24 12:54 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52				**Analyst:** JAN
1,2,3-Trichloropropane	0.0086		0.0050	ug/l	1	11/24/24	

Sample: QC10-112024

4K22040-17 (Water) — Sampled: 11/20/24 13:10 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample: MW-23B-112024

4K22040-18 (Water) — Sampled: 11/20/24 13:40 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1894 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:52				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/24/24	

Sample: QC11-112024

4K22040-19 (Water) — Sampled: 11/20/24 13:40 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1895 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:53				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/25/24	

Sample Results

(Continued)

Sample: PZ-07B-112024

4K22040-20 (Water)

Sampled: 11/20/24 14:07 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K1895 **Preparation:** EPA 5030B			**Prepared:** 11/22/24 15:53				**Analyst:** JAN
1,2,3-Trichloropropane	0.017		0.0050	ug/l	1	11/25/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K1893 - EPA 5030B										
Blank (W4K1893-BLK1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1893-BS1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0204	0.0050	ug/l	0.0200		102	80-120			
LCS Dup (W4K1893-BSD1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0202	0.0050	ug/l	0.0200		101	80-120	1	20	
Duplicate (W4K1893-DUP1)	Source: 4K21096-03		Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0101	0.0050	ug/l		*0.0103*			2	20	
Matrix Spike (W4K1893-MS1)	Source: 4K22040-01		Prepared: 11/22/24 Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0443	0.0050	ug/l	0.0200	*0.0271*	86	80-120			
Matrix Spike Dup (W4K1893-MSD1)	Source: 4K22040-01		Prepared: 11/22/24 Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0481	0.0050	ug/l	0.0200	*0.0271*	105	80-120	200	200	
Batch: W4K1894 - EPA 5030B										
Blank (W4K1894-BLK1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1894-BS1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0211	0.0050	ug/l	0.0200		105	80-120			
LCS Dup (W4K1894-BSD1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0210	0.0050	ug/l	0.0200		105	80-120	0.7	20	
Duplicate (W4K1894-DUP1)	Source: 4K21096-04		Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.00251	0.0050	ug/l		*0.00225*			11	20	
Batch: W4K1895 - EPA 5030B										
Blank (W4K1895-BLK1)			Prepared: 11/22/24 Analyzed: 11/25/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K1895-BS1)			Prepared: 11/22/24 Analyzed: 11/24/24							
1,2,3-Trichloropropane	0.0226	0.0050	ug/l	0.0200		113	80-120			
LCS Dup (W4K1895-BSD1)			Prepared: 11/22/24 Analyzed: 11/25/24							
1,2,3-Trichloropropane	0.0201	0.0050	ug/l	0.0200		100	80-120	12	20	
Duplicate (W4K1895-DUP1)	Source: 4K21093-01		Prepared: 11/22/24 Analyzed: 11/25/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	

Notes and Definitions

Item	Definition
R-01	The MDL and/or MRL for this analyte has been raised to account for matrix interference.
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

LAB:
American Analytics / Weck Laboratories, inc.

COC 1 of 3

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
Haley & Aldrich, Inc.
3187 Red Hill Avenue | Suite 155
Costa Mesa, CA 92626
T: 714.371.1828
C: 714.709.3072
www.haleyaldrich.com

29714

A874672/4K21023

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
QC07-112024	11/20/24	0730	W	~~2~~ 3	HCl	Vom	X									4K21023-01
EW-A-112024	11/20/24	0825	W	15			X	X	X		X					02
EW-04-112024	11/20/24	0848	W	7			X	X	X							03
EW-07A-112024	11/20/24	0930	W	7			X	X	X							04
EW-07B-112024	11/20/24	0945	W	7			X	X	X							05
QC08-112024	11/20/24	0950	W	7			X	X	X							06
MW-60A-112024	11/20/24	1040	W	7			X	X	X							07
MW-60B-112024	11/20/24	1113	W	7			X	X	X							08
MW-62A-112024	11/20/24	1203	W	7			X	X	X							09
MW-62B-112024	11/20/24	1243	W	7			X	X	X							10

REVIEWED Date 11/21/24 Time 1000 TAT N Days Sign

SAMPLE INTEGRITY (Y) N TEMP 1.4°C

SAMPLING COMPLETED	DATE	TIME
	11/20/24	1500

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1000		11/21/24	1000
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1644		11/21/24	1644
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	TIME SENT	COOLER #

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FAX (408) 573-7771
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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics /
Weck Laboratories, inc.

COC 2 of 3

Send Reports to:
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29715

A874612/4K21023

SAMPLE I.D.	DATE	TIME	MATRIX (AQ=Water)	CONTAINERS #	Preservation	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
QC 11-112024	11/20/24	1340	W	7			X	X	X							4K21023-11
PZ-07B-112024	11/20/24	1407	W	7			X	X	X							-12
PZ-07A-112024	11/20/24	1328	W	7			X	X	X							-13

RECEIVED
Date 11/21/24 Time 1644
TAT N Days Clear

24 NOV 21 16:44

SAMPLING COMPLETED: DATE 11/20/24 TIME 1500

SAMPLING PERFORMED BY: DC

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME 1009	RECEIVED BY		DATE 11/21/24	TIME 10:09
RELEASED BY	TIME 1644	RECEIVED BY		DATE 11/21/24	TIME 16:44
RELEASED BY	TIME	RECEIVED BY		DATE	TIME

SHIPPED VIA

TIME SENT

COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
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FAX (408) 573-7771
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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

LAB:
American Analytics /
Weck Laboratories, inc.

COC 3 of 3

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297716
A874672/1K2102

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-16R-112024	11/20/24	0835	AQ	7 (10)	Hcl + none	VOA 6A	X	X	X							1K2102 - 14
MW-15B-112024		0936		7			X	X	X							- 15
MW-17-112024		1042					X	X	X							- 16
EW-05-112024		1157					X	X	X							- 17
MW-23-112024		1249					X	X	X							- 18
QC09-112024		1254					X	X	X							- 19
QC10-112024		1310					X	X	X							- 20
MW-23B-112024	↓	1340	↓	↓	↓	↓	X	X	X							- 21

RECEIVED Date 11/22/24 Time 1000 Days TAT N Sign

24 NOV 21 15:44

SAMPLING COMPLETED	DATE	TIME
	11/20/24	1500

SAMPLING PERFORMED BY: DL

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY		TIME	RECEIVED BY	DATE	TIME
		1600		11/21/24	1009
RELEASED BY		TIME	RECEIVED BY	DATE	TIME
		1644		11/21/24	1644
RELEASED BY		TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA		TIME SENT	COOLER #		

AMERICAN ANALYTICS

9765 Eton Avenue
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December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum GW - South Gate / 130072-025

A874673 / 4K22003

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/22/24 14:25 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
QC12-112124	4K22003-01	Water	10	11/21/24 07:00	11/22/24 14:25
MW-22-112124	4K22003-02	Water	10	11/21/24 07:58	11/22/24 14:25
MW-41-112124	4K22003-03	Water	10	11/21/24 09:01	11/22/24 14:25
MW-24-112124	4K22003-04	Water	10	11/21/24 09:58	11/22/24 14:25
MW-31B-112124	4K22003-05	Water	10	11/21/24 10:48	11/22/24 14:25
MW-31-112124	4K22003-06	Water	10	11/21/24 11:39	11/22/24 14:25
MW-32-112124	4K22003-07	Water	10	11/21/24 13:06	11/22/24 14:25
MW-27-112124	4K22003-08	Water	10	11/21/24 13:39	11/22/24 14:25
MW-28-112124	4K22003-09	Water	10	11/21/24 14:19	11/22/24 14:25
QC14-112124	4K22003-10	Water	10	11/21/24 13:50	11/22/24 14:25
EW-08-112124	4K22003-11	Water	10	11/21/24 08:10	11/22/24 14:25
MW-15-112124	4K22003-12	Water	10	11/21/24 09:00	11/22/24 14:25
MW-18R-112124	4K22003-13	Water	10	11/21/24 09:42	11/22/24 14:25
MW-33B-112124	4K22003-14	Water	10	11/21/24 10:29	11/22/24 14:25
MW-20-112124	4K22003-15	Water	10	11/21/24 11:27	11/22/24 14:25
MW-64A-112124	4K22003-16	Water	10	11/21/24 13:05	11/22/24 14:25
QC15-112124	4K22003-17	Water	10	11/21/24 13:10	11/22/24 14:25
MW-64B-112124	4K22003-18	Water	10	11/21/24 14:05	11/22/24 14:25
QC16-112124	4K22003-19	Water	10	11/21/24 14:20	11/22/24 14:25

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-63-112124	4K22003-20	Water	10	11/21/24 14:55	11/22/24 14:25
8270CM 1,4-Dioxane Only					
MW-22-112124	4K22003-02	Water	10	11/21/24 07:58	11/22/24 14:25
MW-41-112124	4K22003-03	Water	10	11/21/24 09:01	11/22/24 14:25
MW-24-112124	4K22003-04	Water	10	11/21/24 09:58	11/22/24 14:25
MW-31B-112124	4K22003-05	Water	10	11/21/24 10:48	11/22/24 14:25
MW-31-112124	4K22003-06	Water	10	11/21/24 11:39	11/22/24 14:25
MW-32-112124	4K22003-07	Water	10	11/21/24 13:06	11/22/24 14:25
MW-27-112124	4K22003-08	Water	10	11/21/24 13:39	11/22/24 14:25
MW-28-112124	4K22003-09	Water	10	11/21/24 14:19	11/22/24 14:25
QC14-112124	4K22003-10	Water	10	11/21/24 13:50	11/22/24 14:25
EW-08-112124	4K22003-11	Water	10	11/21/24 08:10	11/22/24 14:25
MW-15-112124	4K22003-12	Water	10	11/21/24 09:00	11/22/24 14:25
MW-18R-112124	4K22003-13	Water	10	11/21/24 09:42	11/22/24 14:25
MW-33B-112124	4K22003-14	Water	10	11/21/24 10:29	11/22/24 14:25
MW-20-112124	4K22003-15	Water	10	11/21/24 11:27	11/22/24 14:25
MW-64A-112124	4K22003-16	Water	10	11/21/24 13:05	11/22/24 14:25
QC15-112124	4K22003-17	Water	10	11/21/24 13:10	11/22/24 14:25
MW-64B-112124	4K22003-18	Water	10	11/21/24 14:05	11/22/24 14:25
QC16-112124	4K22003-19	Water	10	11/21/24 14:20	11/22/24 14:25

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
MW-63-112124	4K22003-20	Water	10	11/21/24 14:55	11/22/24 14:25
Methane, Ethane, Ethene Dissolved					
MW-24-112124	4K22003-04	Water	10	11/21/24 09:58	11/22/24 14:25
MW-28-112124	4K22003-09	Water	10	11/21/24 14:19	11/22/24 14:25

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/04/24	12/04/24	12/06/24	12/06/24		
AA ID No:	4K22003-02	4K22003-03	4K22003-04	4K22003-05		
Client ID No:	MW-22-112124	MW-41-112124	MW-24-112124	MW-31B-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**3.8**	**14**	<0.50	**3.8**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	127%	147%	129%	136%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-06	4K22003-07	4K22003-08	4K22003-09		
Client ID No:	MW-31-112124	MW-32-112124	MW-27-112124	MW-28-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**6.6**	**2.0**	<0.50	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	131%	105%	142%	126%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-10	4K22003-11	4K22003-12	4K22003-13		
Client ID No:	QC14-112124	EW-08-112124	MW-15-112124	MW-18R-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	<0.50	<0.50	**3.6**	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	126%	118%	117%	145%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-14	4K22003-15	4K22003-16	4K22003-17		
Client ID No:	MW-33B-112124	MW-20-112124	MW-64A-112124	QC15-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**10**	**3.2**	**6.0**	**6.2**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	137%	142%	124%	104%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24	11/26/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-18	4K22003-19	4K22003-20		
Client ID No:	MW-64B-112124	QC16-112124	MW-63-112124		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)					
1,4-Dioxane	<0.50	<0.50	**7.4**	0.50	1.0
Surrogates				**%REC Limits**	
1,4-Dioxane-d8	131%	147%	132%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/02/24	12/04/24	12/02/24	12/02/24		
Date Analyzed:	12/02/24	12/04/24	12/03/24	12/03/24		
AA ID No:	4K22003-01	4K22003-02	4K22003-03	4K22003-04		
Client ID No:	QC12-112124	MW-22-112124	MW-41-112124	MW-24-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	**0.65**	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**3.5 [1]**	<0.20	<0.20	**0.69 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/02/24	12/04/24	12/02/24	12/02/24		
Date Analyzed:	12/02/24	12/04/24	12/03/24	12/03/24		
AA ID No:	4K22003-01	4K22003-02	4K22003-03	4K22003-04		
Client ID No:	QC12-112124	MW-22-112124	MW-41-112124	MW-24-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	**0.83**	**2.2**	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	<0.20	**1.2**	**0.76**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	**4.6**	**28**	**7.0**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	**1.3**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	<0.30	**2.3**	**2.1**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/02/24	12/04/24	12/02/24	12/02/24		
Date Analyzed:	12/02/24	12/04/24	12/03/24	12/03/24		
AA ID No:	4K22003-01	4K22003-02	4K22003-03	4K22003-04		
Client ID No:	QC12-112124	MW-22-112124	MW-41-112124	MW-24-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**1.0**	<0.30	**0.32 J**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	<0.40	**2.4**	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	100%	90.9%	103%	105%		80-129
Dibromofluoromethane	104%	88.7%	108%	108%		68-137
Toluene-d8	99.9%	96.7%	102%	103%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/03/24	12/03/24	12/03/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K22003-05	4K22003-06	4K22003-07	4K22003-08		
Client ID No:	MW-31B-112124	MW-31-112124	MW-32-112124	MW-27-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.36 J [1]**	**0.54 [1]**	**0.40 J [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/03/24	12/03/24	12/03/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K22003-05	4K22003-06	4K22003-07	4K22003-08		
Client ID No:	MW-31B-112124	MW-31-112124	MW-32-112124	MW-27-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	**0.66**	**0.83**	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**3.4**	**0.67**	<0.20	**2.1**	0.20	0.50
cis-1,2-Dichloroethylene	**21**	**12**	**0.32 J**	**10**	0.30	0.50
1,1-Dichloroethylene	**0.62**	**1.9**	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**2.5**	**1.3**	<0.30	**4.5**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/03/24	12/03/24	12/03/24		
Date Analyzed:	12/03/24	12/03/24	12/03/24	12/03/24		
AA ID No:	4K22003-05	4K22003-06	4K22003-07	4K22003-08		
Client ID No:	MW-31B-112124	MW-31-112124	MW-32-112124	MW-27-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**0.43 J**	<0.30	**1.4**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**30**	**0.46 J**	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	84.9%	87.2%	86.4%	86.1%		80-129
Dibromofluoromethane	87.4%	91.8%	91.3%	87.3%		68-137
Toluene-d8	92.9%	93.4%	94.0%	96.1%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/04/24	12/03/24	12/04/24		
Date Analyzed:	12/03/24	12/04/24	12/04/24	12/04/24		
AA ID No:	4K22003-09	4K22003-10	4K22003-11	4K22003-12		
Client ID No:	MW-28-112124	QC14-112124	EW-08-112124	MW-15-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.26 J [1]**	**0.86 [1]**	**0.23 J [1]**	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/04/24	12/03/24	12/04/24		
Date Analyzed:	12/03/24	12/04/24	12/04/24	12/04/24		
AA ID No:	4K22003-09	4K22003-10	4K22003-11	4K22003-12		
Client ID No:	MW-28-112124	QC14-112124	EW-08-112124	MW-15-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	**0.37 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.0**	<0.20	<0.20	**0.68**	0.20	0.50
cis-1,2-Dichloroethylene	**2.1**	<0.30	**0.44 J**	**16**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**2.0**	<0.30	**0.45 J**	**4.9**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/03/24	12/04/24	12/03/24	12/04/24		
Date Analyzed:	12/03/24	12/04/24	12/04/24	12/04/24		
AA ID No:	4K22003-09	4K22003-10	4K22003-11	4K22003-12		
Client ID No:	MW-28-112124	QC14-112124	EW-08-112124	MW-15-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**15**	<0.40	**1.0**	**0.42 J**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	86.4%	92.3%	87.6%	91.9%		80-129
Dibromofluoromethane	86.1%	94.5%	86.2%	87.1%		68-137
Toluene-d8	95.4%	95.8%	96.7%	97.0%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/04/24		
Date Analyzed:	12/04/24	12/04/24	12/04/24	12/05/24		
AA ID No:	4K22003-13	4K22003-14	4K22003-15	4K22003-16		
Client ID No:	MW-18R-112124	MW-33B-112124	MW-20-112124	MW-64A-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	**21**	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**2.6 [1]**	**0.26 J [1]**	<0.20	**0.88 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/04/24		
Date Analyzed:	12/04/24	12/04/24	12/04/24	12/05/24		
AA ID No:	4K22003-13	4K22003-14	4K22003-15	4K22003-16		
Client ID No:	MW-18R-112124	MW-33B-112124	MW-20-112124	MW-64A-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	**0.76**	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	**0.30 J**	**2.3**	**0.75**	0.20	0.50
cis-1,2-Dichloroethylene	**0.49 J**	**21**	**6.9**	**9.6**	0.30	0.50
1,1-Dichloroethylene	<0.40	**2.1**	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	**0.84**	**0.65**	**0.81**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/04/24		
Date Analyzed:	12/04/24	12/04/24	12/04/24	12/05/24		
AA ID No:	4K22003-13	4K22003-14	4K22003-15	4K22003-16		
Client ID No:	MW-18R-112124	MW-33B-112124	MW-20-112124	MW-64A-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**1.3**	<0.30	**1.1**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	**1.2**	<0.40	**0.65**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	93.6%	91.6%	94.3%	95.7%		80-129
Dibromofluoromethane	93.2%	92.9%	88.5%	86.3%		68-137
Toluene-d8	95.8%	98.4%	101%	101%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-17	4K22003-18	4K22003-19	4K22003-20		
Client ID No:	QC15-112124	MW-64B-112124	QC16-112124	MW-63-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	**19**	**1.4**	<0.40	**0.40 J**	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.21 J [1]**	<0.20	**1.1 [1]**	**0.21 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-17	4K22003-18	4K22003-19	4K22003-20		
Client ID No:	QC15-112124	MW-64B-112124	QC16-112124	MW-63-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**0.69**	**1.6**	<0.20	<0.20	0.20	0.50
cis-1,2-Dichloroethylene	**8.1**	**0.99**	<0.30	**4.0**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	**0.72**	0.40	0.50
trans-1,2-Dichloroethylene	**0.68**	**2.2**	<0.30	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24	11/21/24	11/21/24		
Date Prepared:	12/04/24	12/04/24	12/04/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K22003-17	4K22003-18	4K22003-19	4K22003-20		
Client ID No:	QC15-112124	MW-64B-112124	QC16-112124	MW-63-112124		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**0.55**	**12**	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	94.6%	95.9%	96.2%	96.9%		80-129
Dibromofluoromethane	90.4%	95.8%	96.4%	97.2%		68-137
Toluene-d8	100%	99.5%	100%	97.9%		83-134

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	Dissolved Gases by RSK-175M	**Units:**	ug/L

Date Sampled:	11/21/24	11/21/24		
Date Prepared:	11/26/24	11/26/24		
Date Analyzed:	11/26/24	11/26/24		
AA ID No:	4K22003-04	4K22003-09		
Client ID No:	MW-24-112124	MW-28-112124		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
Methane, Ethane, Ethene Dissolved (RSK-175M)				
Methane	**13**	**130**	2.0	2.0
Ethane	<2.0	<2.0	2.0	2.0
Ethylene	<2.0	<2.0	2.0	2.0

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2647 - EPA 3510C_MS										
Blank (B4K2647-BLK1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*350*		*ug/L*	*200*		*175*	*50-150*			
LCS (B4K2647-BS1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**31.4**	0.50	ug/L	40.0		78.5	75-125			
Surrogate: 1,4-Dioxane-d8	*371*		*ug/L*	*200*		*185*	*50-150*			
LCS Dup (B4K2647-BSD1)				Prepared: 11/26/24 Analyzed: 12/04/24						
1,4-Dioxane	**31.4**	0.50	ug/L	40.0		78.5	75-125	0.00	30	
Surrogate: 1,4-Dioxane-d8	*337*		*ug/L*	*200*		*168*	*50-150*			
Matrix Spike (B4K2647-MS1)			**Source: 4K22003-05**	Prepared: 11/26/24 Analyzed: 12/05/24						
1,4-Dioxane	**150**	0.50	ug/L	200	3.80	72.9	70-130			
Surrogate: 1,4-Dioxane-d8	*196*		*ug/L*	*200*		*98.0*	*50-150*			
Matrix Spike Dup (B4K2647-MSD1)			**Source: 4K22003-05**	Prepared: 11/26/24 Analyzed: 12/05/24						
1,4-Dioxane	**173**	0.50	ug/L	200	3.80	84.6	70-130	14.5	30	
Surrogate: 1,4-Dioxane-d8	*150*		*ug/L*	*200*		*75.0*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1)				Prepared & Analyzed: 12/02/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							



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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
Blank (B4L0226-BLK1) Continued				Prepared & Analyzed: 12/02/24						
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.0*		*96.2*	*80-129*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*68-137*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95.0*	*83-134*			
LCS (B4L0226-BS1)				Prepared & Analyzed: 12/02/24						
Acetone	**21.9**	7.7	ug/L	20.0		110	27-123			J
Benzene	**17.1**	0.40	ug/L	20.0		85.7	60-134			
Bromobenzene	**17.8**	0.40	ug/L	20.0		89.0	70-130			
Bromochloromethane	**16.6**	0.20	ug/L	20.0		83.1	78-121			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
Bromodichloromethane	**17.0**	0.40	ug/L	20.0		85.0	74-135			
Bromoform	**20.2**	0.40	ug/L	20.0		101	68-132			
Bromomethane	**17.8**	0.30	ug/L	20.0		89.2	58-142			
2-Butanone (MEK)	**15.4**	8.6	ug/L	20.0		77.2	62-138			J
tert-Butylbenzene	**18.0**	0.20	ug/L	20.0		90.2	70-130			
n-Butylbenzene	**18.6**	0.20	ug/L	20.0		92.8	70-130			
sec-Butylbenzene	**17.8**	0.20	ug/L	20.0		88.8	84-142			
Carbon Disulfide	**18.6**	0.20	ug/L	20.0		93.2	17-177			
Carbon Tetrachloride	**18.1**	0.30	ug/L	20.0		90.3	66-155			
Chlorobenzene	**18.0**	0.40	ug/L	20.0		90.1	70-130			
Chloroethane	**18.6**	0.40	ug/L	20.0		93.0	45-166			
Chloroform	**16.8**	0.30	ug/L	20.0		83.8	71-131			
Chloromethane	**16.7**	0.40	ug/L	20.0		83.3	48-152			
4-Chlorotoluene	**17.6**	0.20	ug/L	20.0		88.0	70-130			
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.6	70-130			
1,2-Dibromo-3-chloropropane	**17.6**	0.40	ug/L	20.0		87.8	53-145			
Dibromochloromethane	**18.9**	0.40	ug/L	20.0		94.6	72-133			
1,2-Dibromoethane (EDB)	**17.5**	0.40	ug/L	20.0		87.4	79-120			
Dibromomethane	**16.2**	0.40	ug/L	20.0		81.0	68-124			
1,3-Dichlorobenzene	**17.6**	0.40	ug/L	20.0		88.0	70-130			
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130			
1,2-Dichlorobenzene	**17.8**	0.30	ug/L	20.0		89.2	70-130			
Dichlorodifluoromethane (R12)	**15.9**	0.40	ug/L	20.0		79.6	16-148			
1,1-Dichloroethane	**16.8**	0.20	ug/L	20.0		84.0	67-120			
1,2-Dichloroethane (EDC)	**16.3**	0.20	ug/L	20.0		81.6	57-156			
cis-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.6	70-124			
1,1-Dichloroethylene	**17.0**	0.40	ug/L	20.0		85.1	50-149			
trans-1,2-Dichloroethylene	**17.5**	0.30	ug/L	20.0		87.7	66-126			
1,3-Dichloropropane	**16.2**	0.40	ug/L	20.0		81.0	79-113			
1,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		80.0	53-139			
2,2-Dichloropropane	**17.1**	0.30	ug/L	20.0		85.5	44-162			
trans-1,3-Dichloropropylene	**18.3**	0.30	ug/L	20.0		91.4	76-121			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124			
cis-1,3-Dichloropropylene	**17.2**	0.40	ug/L	20.0		86.2	67-127			
Ethylbenzene	**18.4**	0.30	ug/L	20.0		91.8	86-124			
Hexachlorobutadiene	**18.9**	0.50	ug/L	20.0		94.4	76-140			
2-Hexanone (MBK)	**16.2**	8.4	ug/L	20.0		81.0	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
4-Isopropyltoluene	**18.4**	0.30	ug/L	20.0		91.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**33.9**	1.2	ug/L	40.0		84.7	58-144			
Methylene Chloride	**16.5**	4.4	ug/L	20.0		82.5	50-135			
4-Methyl-2-pentanone (MIBK)	**15.4**	9.8	ug/L	20.0		77.0	49-139			J
Naphthalene	**18.4**	0.40	ug/L	20.0		92.2	74-128			
n-Propylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130			
Styrene	**18.2**	0.20	ug/L	20.0		91.0	84-123			
1,1,1,2-Tetrachloroethane	**18.6**	0.30	ug/L	20.0		93.2	70-130			
1,1,2,2-Tetrachloroethane	**16.9**	0.40	ug/L	20.0		84.4	58-126			
Tetrachloroethylene (PCE)	**18.6**	0.50	ug/L	20.0		92.8	70-130			
Toluene	**17.8**	0.20	ug/L	20.0		88.8	83-118			
1,2,4-Trichlorobenzene	**18.2**	0.30	ug/L	20.0		90.9	84-128			
1,2,3-Trichlorobenzene	**17.8**	0.50	ug/L	20.0		89.0	77-134			
1,1,2-Trichloroethane	**17.0**	0.30	ug/L	20.0		85.2	75-115			
1,1,1-Trichloroethane	**17.3**	0.30	ug/L	20.0		86.4	66-158			
Trichloroethylene (TCE)	**17.0**	0.30	ug/L	20.0		85.2	82-128			
Trichlorofluoromethane (R11)	**19.8**	0.40	ug/L	20.0		99.2	65-137			
1,2,3-Trichloropropane	**16.8**	0.20	ug/L	20.0		84.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.1**	0.30	ug/L	20.0		85.5	62-130			
1,2,4-Trimethylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130			
1,3,5-Trimethylbenzene	**17.9**	0.20	ug/L	20.0		89.6	70-130			
Vinyl chloride	**19.3**	0.40	ug/L	20.0		96.3	51-151			
o-Xylene	**17.5**	0.30	ug/L	20.0		87.4	70-130			
m,p-Xylenes	**36.3**	0.60	ug/L	40.0		90.7	70-130			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS (B4L0226-BS1) Continued				Prepared & Analyzed: 12/02/24						
Surrogate: 4-Bromofluorobenzene	*44.7*		*ug/L*	*50.0*		*89.5*	*80-129*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.0*		*92.5*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*95.9*	*83-134*			
LCS Dup (B4L0226-BSD1)				Prepared & Analyzed: 12/02/24						
Acetone	**32.0**	7.7	ug/L	20.0		160	27-123	37.3	30	QL-03, J
Benzene	**19.2**	0.40	ug/L	20.0		96.0	60-134	11.4	30	
Bromobenzene	**17.9**	0.40	ug/L	20.0		89.6	70-130	0.672	30	
Bromochloromethane	**20.9**	0.20	ug/L	20.0		104	78-121	22.7	30	
Bromodichloromethane	**21.1**	0.40	ug/L	20.0		106	74-135	21.6	30	
Bromoform	**23.5**	0.40	ug/L	20.0		118	68-132	15.2	30	
Bromomethane	**21.7**	0.30	ug/L	20.0		109	58-142	19.6	30	
2-Butanone (MEK)	**23.5**	8.6	ug/L	20.0		117	62-138	41.3	30	QR-02
tert-Butylbenzene	**17.2**	0.20	ug/L	20.0		86.0	70-130	4.83	30	
n-Butylbenzene	**18.4**	0.20	ug/L	20.0		92.1	70-130	0.757	30	
sec-Butylbenzene	**17.7**	0.20	ug/L	20.0		88.5	84-142	0.338	30	
Carbon Disulfide	**17.8**	0.20	ug/L	20.0		89.0	17-177	4.56	30	
Carbon Tetrachloride	**18.2**	0.30	ug/L	20.0		91.2	66-155	0.937	30	
Chlorobenzene	**17.6**	0.40	ug/L	20.0		88.2	70-130	2.19	30	
Chloroethane	**22.5**	0.40	ug/L	20.0		113	45-166	19.0	30	
Chloroform	**18.9**	0.30	ug/L	20.0		94.6	71-131	12.0	30	
Chloromethane	**20.0**	0.40	ug/L	20.0		100	48-152	18.2	30	
4-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.1	70-130	2.24	30	
2-Chlorotoluene	**16.7**	0.20	ug/L	20.0		83.5	70-130	0.179	30	
1,2-Dibromo-3-chloropropane	**24.4**	0.40	ug/L	20.0		122	53-145	32.3	30	QR-02
Dibromochloromethane	**21.0**	0.40	ug/L	20.0		105	72-133	10.2	30	
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120	18.1	30	
Dibromomethane	**22.8**	0.40	ug/L	20.0		114	68-124	33.9	30	QR-02
1,3-Dichlorobenzene	**17.4**	0.40	ug/L	20.0		87.2	70-130	0.913	30	
1,4-Dichlorobenzene	**17.6**	0.30	ug/L	20.0		88.2	70-130	0.00	30	
1,2-Dichlorobenzene	**18.7**	0.30	ug/L	20.0		93.6	70-130	4.76	30	
Dichlorodifluoromethane (R12)	**19.3**	0.40	ug/L	20.0		96.6	16-148	19.3	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
1,1-Dichloroethane	**18.6**	0.20	ug/L	20.0		92.8	67-120	9.95	30	
1,2-Dichloroethane (EDC)	**22.6**	0.20	ug/L	20.0		113	57-156	32.1	30	QR-02
cis-1,2-Dichloroethylene	**19.0**	0.30	ug/L	20.0		95.2	70-124	11.7	30	
1,1-Dichloroethylene	**16.7**	0.40	ug/L	20.0		83.6	50-149	1.84	30	
trans-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0		89.9	66-126	2.48	30	
1,3-Dichloropropane	**20.4**	0.40	ug/L	20.0		102	79-113	22.9	30	
1,2-Dichloropropane	**21.0**	0.30	ug/L	20.0		105	53-139	26.9	30	
2,2-Dichloropropane	**16.0**	0.30	ug/L	20.0		79.8	44-162	6.83	30	
trans-1,3-Dichloropropylene	**19.8**	0.30	ug/L	20.0		99.0	76-121	8.03	30	
1,1-Dichloropropylene	**17.1**	0.30	ug/L	20.0		85.6	84-124	0.117	30	
cis-1,3-Dichloropropylene	**21.5**	0.40	ug/L	20.0		107	67-127	21.8	30	
Ethylbenzene	**17.5**	0.30	ug/L	20.0		87.6	86-124	4.74	30	
Hexachlorobutadiene	**17.6**	0.50	ug/L	20.0		88.1	76-140	6.90	30	
2-Hexanone (MBK)	**23.0**	8.4	ug/L	20.0		115	52-123	34.7	30	QR-02
Isopropylbenzene	**17.2**	0.30	ug/L	20.0		85.8	70-130	5.11	30	
4-Isopropyltoluene	**17.4**	0.30	ug/L	20.0		87.0	70-130	5.26	30	
Methyl-tert-Butyl Ether (MTBE)	**48.9**	1.2	ug/L	40.0		122	58-144	36.3	30	QR-02
Methylene Chloride	**24.4**	4.4	ug/L	20.0		122	50-135	38.7	30	QR-02
4-Methyl-2-pentanone (MIBK)	**28.6**	9.8	ug/L	20.0		143	49-139	59.8	30	QL-03
Naphthalene	**24.0**	0.40	ug/L	20.0		120	74-128	26.1	30	
n-Propylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	4.21	30	
Styrene	**18.5**	0.20	ug/L	20.0		92.6	84-123	1.69	30	
1,1,1,2-Tetrachloroethane	**18.9**	0.30	ug/L	20.0		94.5	70-130	1.39	30	
1,1,2,2-Tetrachloroethane	**23.0**	0.40	ug/L	20.0		115	58-126	30.4	30	QR-02
Tetrachloroethylene (PCE)	**15.8**	0.50	ug/L	20.0		79.2	70-130	15.9	30	
Toluene	**16.5**	0.20	ug/L	20.0		82.4	83-118	7.59	30	QL-03
1,2,4-Trichlorobenzene	**19.2**	0.30	ug/L	20.0		96.2	84-128	5.72	30	
1,2,3-Trichlorobenzene	**20.3**	0.50	ug/L	20.0		102	77-134	13.3	30	
1,1,2-Trichloroethane	**20.0**	0.30	ug/L	20.0		100	75-115	15.9	30	
1,1,1-Trichloroethane	**18.3**	0.30	ug/L	20.0		91.3	66-158	5.46	30	
Trichloroethylene (TCE)	**18.3**	0.30	ug/L	20.0		91.4	82-128	6.96	30	
Trichlorofluoromethane (R11)	**24.0**	0.40	ug/L	20.0		120	65-137	18.8	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0226 - EPA 5030B										
LCS Dup (B4L0226-BSD1) Continued				Prepared & Analyzed: 12/02/24						
1,2,3-Trichloropropane	**22.7**	0.20	ug/L	20.0		114	68-123	29.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.5**	0.30	ug/L	20.0		87.4	62-130	2.20	30	
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0		89.8	70-130	0.722	30	
1,3,5-Trimethylbenzene	**17.7**	0.20	ug/L	20.0		88.3	70-130	1.41	30	
Vinyl chloride	**23.1**	0.40	ug/L	20.0		116	51-151	18.2	30	
o-Xylene	**17.1**	0.30	ug/L	20.0		85.4	70-130	2.37	30	
m,p-Xylenes	**34.3**	0.60	ug/L	40.0		85.8	70-130	5.58	30	
Surrogate: 4-Bromofluorobenzene	*47.7*		*ug/L*	*50.0*		*95.3*	*80-129*			
Surrogate: Dibromofluoromethane	*56.0*		*ug/L*	*50.0*		*112*	*68-137*			
Surrogate: Toluene-d8	*46.8*		*ug/L*	*50.0*		*93.6*	*83-134*			
Batch B4L0336 - EPA 5030B										
Blank (B4L0336-BLK1)				Prepared & Analyzed: 12/03/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Blank (B4L0336-BLK1) Continued				Prepared & Analyzed: 12/03/24						
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Blank (B4L0336-BLK1) Continued				Prepared & Analyzed: 12/03/24						
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.3*		*ug/L*	*50.0*		*96.5*	*80-129*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.0*		*105*	*68-137*			
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.0*		*96.9*	*83-134*			
LCS (B4L0336-BS1)				Prepared & Analyzed: 12/03/24						
Acetone	**27.8**	7.7	ug/L	20.0		139	27-123			QL-02, J
Benzene	**20.0**	0.40	ug/L	20.0		100	60-134			
Bromobenzene	**18.6**	0.40	ug/L	20.0		92.8	70-130			
Bromochloromethane	**18.6**	0.20	ug/L	20.0		92.8	78-121			
Bromodichloromethane	**20.4**	0.40	ug/L	20.0		102	74-135			
Bromoform	**20.4**	0.40	ug/L	20.0		102	68-132			
Bromomethane	**19.5**	0.30	ug/L	20.0		97.6	58-142			
2-Butanone (MEK)	**18.4**	8.6	ug/L	20.0		91.9	62-138			J
tert-Butylbenzene	**19.5**	0.20	ug/L	20.0		97.4	70-130			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
LCS (B4L0336-BS1) Continued				Prepared & Analyzed: 12/03/24						
n-Butylbenzene	**20.8**	0.20	ug/L	20.0		104	70-130			
sec-Butylbenzene	**19.7**	0.20	ug/L	20.0		98.4	84-142			
Carbon Disulfide	**21.2**	0.20	ug/L	20.0		106	17-177			
Carbon Tetrachloride	**19.6**	0.30	ug/L	20.0		98.0	66-155			
Chlorobenzene	**18.8**	0.40	ug/L	20.0		93.8	70-130			
Chloroethane	**22.4**	0.40	ug/L	20.0		112	45-166			
Chloroform	**19.6**	0.30	ug/L	20.0		98.1	71-131			
Chloromethane	**20.5**	0.40	ug/L	20.0		102	48-152			
4-Chlorotoluene	**19.3**	0.20	ug/L	20.0		96.7	70-130			
2-Chlorotoluene	**18.8**	0.20	ug/L	20.0		94.2	70-130			
1,2-Dibromo-3-chloropropane	**20.8**	0.40	ug/L	20.0		104	53-145			
Dibromochloromethane	**19.3**	0.40	ug/L	20.0		96.4	72-133			
1,2-Dibromoethane (EDB)	**18.8**	0.40	ug/L	20.0		93.9	79-120			
Dibromomethane	**19.0**	0.40	ug/L	20.0		95.0	68-124			
1,3-Dichlorobenzene	**18.5**	0.40	ug/L	20.0		92.5	70-130			
1,4-Dichlorobenzene	**18.8**	0.30	ug/L	20.0		93.8	70-130			
1,2-Dichlorobenzene	**19.1**	0.30	ug/L	20.0		95.4	70-130			
Dichlorodifluoromethane (R12)	**17.9**	0.40	ug/L	20.0		89.6	16-148			
1,1-Dichloroethane	**19.6**	0.20	ug/L	20.0		98.0	67-120			
1,2-Dichloroethane (EDC)	**19.1**	0.20	ug/L	20.0		95.6	57-156			
cis-1,2-Dichloroethylene	**19.3**	0.30	ug/L	20.0		96.5	70-124			
1,1-Dichloroethylene	**19.3**	0.40	ug/L	20.0		96.5	50-149			
trans-1,2-Dichloroethylene	**19.6**	0.30	ug/L	20.0		98.2	66-126			
1,3-Dichloropropane	**18.6**	0.40	ug/L	20.0		92.8	79-113			
1,2-Dichloropropane	**19.6**	0.30	ug/L	20.0		98.2	53-139			
2,2-Dichloropropane	**19.5**	0.30	ug/L	20.0		97.7	44-162			
trans-1,3-Dichloropropylene	**19.4**	0.30	ug/L	20.0		96.8	76-121			
1,1-Dichloropropylene	**19.8**	0.30	ug/L	20.0		99.0	84-124			
cis-1,3-Dichloropropylene	**20.3**	0.40	ug/L	20.0		102	67-127			
Ethylbenzene	**19.5**	0.30	ug/L	20.0		97.6	86-124			
Hexachlorobutadiene	**19.3**	0.50	ug/L	20.0		96.4	76-140			
2-Hexanone (MBK)	**19.3**	8.4	ug/L	20.0		96.3	52-123			J

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
LCS (B4L0336-BS1) Continued				Prepared & Analyzed: 12/03/24						
Isopropylbenzene	**19.7**	0.30	ug/L	20.0		98.6	70-130			
4-Isopropyltoluene	**20.2**	0.30	ug/L	20.0		101	70-130			
Methyl-tert-Butyl Ether (MTBE)	**40.5**	1.2	ug/L	40.0		101	58-144			
Methylene Chloride	**17.6**	4.4	ug/L	20.0		88.0	50-135			
4-Methyl-2-pentanone (MIBK)	**22.3**	9.8	ug/L	20.0		111	49-139			
Naphthalene	**20.5**	0.40	ug/L	20.0		102	74-128			
n-Propylbenzene	**20.5**	0.20	ug/L	20.0		103	70-130			
Styrene	**19.5**	0.20	ug/L	20.0		97.3	84-123			
1,1,1,2-Tetrachloroethane	**18.8**	0.30	ug/L	20.0		94.2	70-130			
1,1,2,2-Tetrachloroethane	**19.2**	0.40	ug/L	20.0		96.2	58-126			
Tetrachloroethylene (PCE)	**17.7**	0.50	ug/L	20.0		88.6	70-130			
Toluene	**18.8**	0.20	ug/L	20.0		94.0	83-118			
1,2,4-Trichlorobenzene	**19.3**	0.30	ug/L	20.0		96.4	84-128			
1,2,3-Trichlorobenzene	**19.1**	0.50	ug/L	20.0		95.3	77-134			
1,1,2-Trichloroethane	**18.8**	0.30	ug/L	20.0		94.0	75-115			
1,1,1-Trichloroethane	**20.0**	0.30	ug/L	20.0		100	66-158			
Trichloroethylene (TCE)	**20.0**	0.30	ug/L	20.0		100	82-128			
Trichlorofluoromethane (R11)	**22.6**	0.40	ug/L	20.0		113	65-137			
1,2,3-Trichloropropane	**19.4**	0.20	ug/L	20.0		96.8	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**19.0**	0.30	ug/L	20.0		95.2	62-130			
1,2,4-Trimethylbenzene	**19.4**	0.30	ug/L	20.0		96.9	70-130			
1,3,5-Trimethylbenzene	**19.6**	0.20	ug/L	20.0		98.2	70-130			
Vinyl chloride	**22.8**	0.40	ug/L	20.0		114	51-151			
o-Xylene	**18.5**	0.30	ug/L	20.0		92.6	70-130			
m,p-Xylenes	**38.2**	0.60	ug/L	40.0		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	*48.0*		*ug/L*	*50.0*		*95.9*	*80-129*			
Surrogate: Dibromofluoromethane	*50.6*		*ug/L*	*50.0*		*101*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96.0*	*83-134*			
LCS Dup (B4L0336-BSD1)				Prepared & Analyzed: 12/03/24						
Acetone	**22.6**	7.7	ug/L	20.0		113	27-123	20.5	30	J

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
LCS Dup (B4L0336-BSD1) Continued				Prepared & Analyzed: 12/03/24						
Benzene	**16.3**	0.40	ug/L	20.0		81.6	60-134	20.2	30	
Bromobenzene	**19.5**	0.40	ug/L	20.0		97.4	70-130	4.79	30	
Bromochloromethane	**17.1**	0.20	ug/L	20.0		85.3	78-121	8.42	30	
Bromodichloromethane	**16.1**	0.40	ug/L	20.0		80.4	74-135	23.5	30	
Bromoform	**24.1**	0.40	ug/L	20.0		121	68-132	16.7	30	
Bromomethane	**17.2**	0.30	ug/L	20.0		86.0	58-142	12.7	30	
2-Butanone (MEK)	**16.9**	8.6	ug/L	20.0		84.6	62-138	8.33	30	J
tert-Butylbenzene	**18.2**	0.20	ug/L	20.0		91.0	70-130	6.74	30	
n-Butylbenzene	**18.0**	0.20	ug/L	20.0		90.1	70-130	14.1	30	
sec-Butylbenzene	**17.6**	0.20	ug/L	20.0		88.0	84-142	11.1	30	
Carbon Disulfide	**16.6**	0.20	ug/L	20.0		83.2	17-177	24.3	30	
Carbon Tetrachloride	**16.0**	0.30	ug/L	20.0		79.8	66-155	20.4	30	
Chlorobenzene	**18.0**	0.40	ug/L	20.0		90.1	70-130	3.97	30	
Chloroethane	**17.0**	0.40	ug/L	20.0		85.0	45-166	27.2	30	
Chloroform	**15.3**	0.30	ug/L	20.0		76.6	71-131	24.6	30	
Chloromethane	**15.7**	0.40	ug/L	20.0		78.3	48-152	26.6	30	
4-Chlorotoluene	**16.9**	0.20	ug/L	20.0		84.6	70-130	13.3	30	
2-Chlorotoluene	**16.5**	0.20	ug/L	20.0		82.7	70-130	13.0	30	
1,2-Dibromo-3-chloropropane	**20.2**	0.40	ug/L	20.0		101	53-145	2.98	30	
Dibromochloromethane	**20.3**	0.40	ug/L	20.0		101	72-133	5.05	30	
1,2-Dibromoethane (EDB)	**18.8**	0.40	ug/L	20.0		93.8	79-120	0.107	30	
Dibromomethane	**15.7**	0.40	ug/L	20.0		78.6	68-124	18.9	30	
1,3-Dichlorobenzene	**18.7**	0.40	ug/L	20.0		93.4	70-130	0.968	30	
1,4-Dichlorobenzene	**18.7**	0.30	ug/L	20.0		93.4	70-130	0.481	30	
1,2-Dichlorobenzene	**19.7**	0.30	ug/L	20.0		98.6	70-130	3.25	30	
Dichlorodifluoromethane (R12)	**13.1**	0.40	ug/L	20.0		65.4	16-148	31.2	30	QR-02
1,1-Dichloroethane	**15.1**	0.20	ug/L	20.0		75.4	67-120	26.2	30	
1,2-Dichloroethane (EDC)	**15.3**	0.20	ug/L	20.0		76.6	57-156	22.0	30	
cis-1,2-Dichloroethylene	**15.6**	0.30	ug/L	20.0		77.8	70-124	21.4	30	
1,1-Dichloroethylene	**15.5**	0.40	ug/L	20.0		77.5	50-149	21.8	30	
trans-1,2-Dichloroethylene	**15.9**	0.30	ug/L	20.0		79.6	66-126	21.0	30	
1,3-Dichloropropane	**18.2**	0.40	ug/L	20.0		91.1	79-113	1.79	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
LCS Dup (B4L0336-BSD1) Continued				Prepared & Analyzed: 12/03/24						
1,2-Dichloropropane	**15.1**	0.30	ug/L	20.0		75.6	53-139	26.0	30	
2,2-Dichloropropane	**15.9**	0.30	ug/L	20.0		79.6	44-162	20.4	30	
trans-1,3-Dichloropropylene	**19.0**	0.30	ug/L	20.0		95.1	76-121	1.82	30	
1,1-Dichloropropylene	**15.5**	0.30	ug/L	20.0		77.6	84-124	24.2	30	QL-03
cis-1,3-Dichloropropylene	**16.6**	0.40	ug/L	20.0		82.9	67-127	20.3	30	
Ethylbenzene	**18.7**	0.30	ug/L	20.0		93.5	86-124	4.29	30	
Hexachlorobutadiene	**19.6**	0.50	ug/L	20.0		98.1	76-140	1.70	30	
2-Hexanone (MBK)	**18.4**	8.4	ug/L	20.0		91.8	52-123	4.73	30	J
Isopropylbenzene	**17.8**	0.30	ug/L	20.0		89.0	70-130	10.2	30	
4-Isopropyltoluene	**18.4**	0.30	ug/L	20.0		92.2	70-130	8.96	30	
Methyl-tert-Butyl Ether (MTBE)	**36.4**	1.2	ug/L	40.0		90.9	58-144	10.7	30	
Methylene Chloride	**15.4**	4.4	ug/L	20.0		77.0	50-135	13.3	30	
4-Methyl-2-pentanone (MIBK)	**19.3**	9.8	ug/L	20.0		96.5	49-139	14.3	30	J
Naphthalene	**22.4**	0.40	ug/L	20.0		112	74-128	9.19	30	
n-Propylbenzene	**18.2**	0.20	ug/L	20.0		90.9	70-130	12.1	30	
Styrene	**18.5**	0.20	ug/L	20.0		92.4	84-123	5.22	30	
1,1,1,2-Tetrachloroethane	**19.8**	0.30	ug/L	20.0		99.0	70-130	5.07	30	
1,1,2,2-Tetrachloroethane	**19.6**	0.40	ug/L	20.0		97.9	58-126	1.80	30	
Tetrachloroethylene (PCE)	**20.6**	0.50	ug/L	20.0		103	70-130	14.9	30	
Toluene	**17.6**	0.20	ug/L	20.0		88.0	83-118	6.70	30	
1,2,4-Trichlorobenzene	**20.0**	0.30	ug/L	20.0		100	84-128	3.72	30	
1,2,3-Trichlorobenzene	**20.0**	0.50	ug/L	20.0		100	77-134	4.76	30	
1,1,2-Trichloroethane	**18.2**	0.30	ug/L	20.0		91.1	75-115	3.19	30	
1,1,1-Trichloroethane	**16.1**	0.30	ug/L	20.0		80.4	66-158	21.9	30	
Trichloroethylene (TCE)	**15.5**	0.30	ug/L	20.0		77.4	82-128	25.6	30	QL-03
Trichlorofluoromethane (R11)	**15.5**	0.40	ug/L	20.0		77.6	65-137	37.1	30	QR-02
1,2,3-Trichloropropane	**19.1**	0.20	ug/L	20.0		95.6	68-123	1.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**14.6**	0.30	ug/L	20.0		72.8	62-130	26.5	30	
1,2,4-Trimethylbenzene	**17.6**	0.30	ug/L	20.0		87.9	70-130	9.74	30	
1,3,5-Trimethylbenzene	**17.6**	0.20	ug/L	20.0		88.2	70-130	10.8	30	
Vinyl chloride	**16.9**	0.40	ug/L	20.0		84.6	51-151	29.7	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
LCS Dup (B4L0336-BSD1) Continued				Prepared & Analyzed: 12/03/24						
o-Xylene	**17.5**	0.30	ug/L	20.0		87.6	70-130	5.55	30	
m,p-Xylenes	**36.0**	0.60	ug/L	40.0		90.0	70-130	5.93	30	
Surrogate: 4-Bromofluorobenzene	*43.8*		*ug/L*	*50.0*		*87.6*	*80-129*			
Surrogate: Dibromofluoromethane	*41.0*		*ug/L*	*50.0*		*82.0*	*68-137*			
Surrogate: Toluene-d8	*46.6*		*ug/L*	*50.0*		*93.2*	*83-134*			
Matrix Spike (B4L0336-MS1)		**Source: 4K22003-05**		Prepared: 12/03/24 Analyzed: 12/04/24						
Acetone	**17.8**	7.7	ug/L	20.0	<50	89.2	11-169			J
Benzene	**17.3**	0.40	ug/L	20.0	<0.50	86.3	56-135			
Bromobenzene	**19.5**	0.40	ug/L	20.0	<0.50	97.4	70-130			
Bromochloromethane	**17.2**	0.20	ug/L	20.0	<0.50	85.8	74-125			
Bromodichloromethane	**17.2**	0.40	ug/L	20.0	<0.50	86.1	68-144			
Bromoform	**21.8**	0.40	ug/L	20.0	<0.50	109	68-151			
Bromomethane	**16.4**	0.30	ug/L	20.0	<0.50	82.0	54-142			
2-Butanone (MEK)	**15.3**	8.6	ug/L	20.0	<20	76.6	62-145			J
tert-Butylbenzene	**19.0**	0.20	ug/L	20.0	<0.50	94.8	70-130			
n-Butylbenzene	**17.9**	0.20	ug/L	20.0	<0.50	89.5	70-130			
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0	<0.50	90.6	84-145			
Carbon Disulfide	**17.8**	0.20	ug/L	20.0	0.360	87.0	28-151			
Carbon Tetrachloride	**17.8**	0.30	ug/L	20.0	<0.50	89.2	58-164			
Chlorobenzene	**19.0**	0.40	ug/L	20.0	<0.50	94.8	70-130			
Chloroethane	**17.9**	0.40	ug/L	20.0	<0.50	89.6	42-164			
Chloroform	**16.5**	0.30	ug/L	20.0	<0.50	82.3	65-138			
Chloromethane	**16.0**	0.40	ug/L	20.0	<0.50	80.2	50-152			
4-Chlorotoluene	**17.9**	0.20	ug/L	20.0	<0.50	89.3	70-130			
2-Chlorotoluene	**17.2**	0.20	ug/L	20.0	<0.50	86.2	70-130			
1,2-Dibromo-3-chloropropane	**18.6**	0.40	ug/L	20.0	<1.0	92.8	53-161			
Dibromochloromethane	**20.0**	0.40	ug/L	20.0	<0.50	100	70-130			
1,2-Dibromoethane (EDB)	**18.6**	0.40	ug/L	20.0	<0.50	93.2	76-130			
Dibromomethane	**15.8**	0.40	ug/L	20.0	<0.50	79.1	62-135			
1,3-Dichlorobenzene	**18.3**	0.40	ug/L	20.0	<0.50	91.3	70-130			
1,4-Dichlorobenzene	**18.4**	0.30	ug/L	20.0	<0.50	91.9	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Matrix Spike (B4L0336-MS1) Continued Source: 4K22003-05 Prepared: 12/03/24 Analyzed: 12/04/24										
1,2-Dichlorobenzene	**18.4**	0.30	ug/L	20.0	<0.50	92.2	70-130			
Dichlorodifluoromethane (R12)	**13.6**	0.40	ug/L	20.0	<0.50	68.0	17-153			
1,1-Dichloroethane	**16.2**	0.20	ug/L	20.0	0.660	77.5	55-131			
1,2-Dichloroethane (EDC)	**18.1**	0.20	ug/L	20.0	3.38	73.8	52-168			
cis-1,2-Dichloroethylene	**30.3**	0.30	ug/L	20.0	21.0	46.4	70-130			QM-07
1,1-Dichloroethylene	**16.7**	0.40	ug/L	20.0	0.620	80.4	51-140			
trans-1,2-Dichloroethylene	**18.3**	0.30	ug/L	20.0	2.47	79.0	59-127			
1,3-Dichloropropane	**17.8**	0.40	ug/L	20.0	<0.50	89.1	80-121			
1,2-Dichloropropane	**16.2**	0.30	ug/L	20.0	<0.50	81.2	52-142			
2,2-Dichloropropane	**15.9**	0.30	ug/L	20.0	<0.50	79.6	36-168			
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0	<0.50	96.1	78-130			
1,1-Dichloropropylene	**16.8**	0.30	ug/L	20.0	<0.50	84.0	76-132			
cis-1,3-Dichloropropylene	**17.3**	0.40	ug/L	20.0	<0.50	86.7	66-130			
Ethylbenzene	**18.8**	0.30	ug/L	20.0	<0.50	94.2	86-128			
Hexachlorobutadiene	**17.0**	0.50	ug/L	20.0	<1.0	84.8	70-130			
2-Hexanone (MBK)	**15.7**	8.4	ug/L	20.0	<20	78.6	52-141			J
Isopropylbenzene	**18.6**	0.30	ug/L	20.0	<0.50	93.2	70-130			
4-Isopropyltoluene	**18.9**	0.30	ug/L	20.0	<1.0	94.5	83-149			
Methyl-tert-Butyl Ether (MTBE)	**33.7**	1.2	ug/L	40.0	<2.0	84.2	56-150			
Methylene Chloride	**15.2**	4.4	ug/L	20.0	<5.0	76.0	70-130			
4-Methyl-2-pentanone (MIBK)	**15.7**	9.8	ug/L	20.0	<20	78.4	60-148			J
Naphthalene	**17.7**	0.40	ug/L	20.0	<2.0	88.4	70-130			
n-Propylbenzene	**18.6**	0.20	ug/L	20.0	<0.50	92.8	70-130			
Styrene	**19.1**	0.20	ug/L	20.0	<0.50	95.3	65-141			
1,1,1,2-Tetrachloroethane	**20.4**	0.30	ug/L	20.0	<0.50	102	70-130			
1,1,2,2-Tetrachloroethane	**17.4**	0.40	ug/L	20.0	<0.50	86.9	62-134			
Tetrachloroethylene (PCE)	**20.2**	0.50	ug/L	20.0	<0.50	101	70-130			
Toluene	**18.7**	0.20	ug/L	20.0	<0.50	93.6	81-123			
1,2,4-Trichlorobenzene	**16.8**	0.30	ug/L	20.0	<0.50	84.1	80-137			
1,2,3-Trichlorobenzene	**15.0**	0.50	ug/L	20.0	<0.50	75.1	73-144			
1,1,2-Trichloroethane	**18.3**	0.30	ug/L	20.0	<0.50	91.4	76-122			
1,1,1-Trichloroethane	**17.3**	0.30	ug/L	20.0	<0.50	86.4	62-164			

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Matrix Spike (B4L0336-MS1) Continued	**Source: 4K22003-05**			Prepared: 12/03/24		Analyzed: 12/04/24				
Trichloroethylene (TCE)	**16.8**	0.30	ug/L	20.0	<0.50	83.8	72-136			
Trichlorofluoromethane (R11)	**16.9**	0.40	ug/L	20.0	<0.50	84.6	59-144			
1,2,3-Trichloropropane	**17.1**	0.20	ug/L	20.0	<0.50	85.3	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.4**	0.30	ug/L	20.0	<0.50	77.0	62-126			
1,2,4-Trimethylbenzene	**18.0**	0.30	ug/L	20.0	<0.50	90.2	89-134			
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0	<0.50	91.2	70-130			
Vinyl chloride	**35.4**	0.40	ug/L	20.0	30.1	26.6	54-150			QM-07
o-Xylene	**18.1**	0.30	ug/L	20.0	<0.50	90.6	70-130			
m,p-Xylenes	**37.3**	0.60	ug/L	40.0	<1.0	93.2	70-130			
Surrogate: 4-Bromofluorobenzene	*44.0*		*ug/L*	*50.0*		*88.0*	*80-129*			
Surrogate: Dibromofluoromethane	*42.8*		*ug/L*	*50.0*		*85.6*	*68-137*			
Surrogate: Toluene-d8	*47.4*		*ug/L*	*50.0*		*94.8*	*83-134*			
Matrix Spike Dup (B4L0336-MSD1)	**Source: 4K22003-05**			Prepared: 12/03/24		Analyzed: 12/04/24				
Acetone	**18.7**	7.7	ug/L	20.0	<50	93.4	11-169	4.49	30	J
Benzene	**17.0**	0.40	ug/L	20.0	<0.50	84.8	56-135	1.69	30	
Bromobenzene	**19.4**	0.40	ug/L	20.0	<0.50	97.0	70-130	0.309	30	
Bromochloromethane	**17.0**	0.20	ug/L	20.0	<0.50	85.0	74-125	0.995	30	
Bromodichloromethane	**17.0**	0.40	ug/L	20.0	<0.50	85.0	68-144	1.29	30	
Bromoform	**21.1**	0.40	ug/L	20.0	<0.50	106	68-151	3.12	30	
Bromomethane	**18.4**	0.30	ug/L	20.0	<0.50	91.8	54-142	11.3	30	
2-Butanone (MEK)	**17.0**	8.6	ug/L	20.0	<20	84.8	62-145	10.1	30	J
tert-Butylbenzene	**18.9**	0.20	ug/L	20.0	<0.50	94.6	70-130	0.211	30	
n-Butylbenzene	**17.8**	0.20	ug/L	20.0	<0.50	89.0	70-130	0.616	30	
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0	<0.50	90.4	84-145	0.276	30	
Carbon Disulfide	**17.4**	0.20	ug/L	20.0	0.360	85.4	28-151	1.76	30	
Carbon Tetrachloride	**17.6**	0.30	ug/L	20.0	<0.50	88.2	58-164	1.13	30	
Chlorobenzene	**19.1**	0.40	ug/L	20.0	<0.50	95.5	70-130	0.736	30	
Chloroethane	**18.5**	0.40	ug/L	20.0	<0.50	92.6	42-164	3.35	30	
Chloroform	**16.5**	0.30	ug/L	20.0	<0.50	82.5	65-138	0.243	30	
Chloromethane	**17.1**	0.40	ug/L	20.0	<0.50	85.4	50-152	6.28	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Matrix Spike Dup (B4L0336-MSD1) Continued	**Source: 4K22003-05** Prepared: 12/03/24 Analyzed: 12/04/24									
4-Chlorotoluene	**17.4**	0.20	ug/L	20.0	<0.50	86.8	70-130	2.90	30	
2-Chlorotoluene	**17.1**	0.20	ug/L	20.0	<0.50	85.5	70-130	0.873	30	
1,2-Dibromo-3-chloropropane	**18.4**	0.40	ug/L	20.0	<1.0	92.2	53-161	0.757	30	
Dibromochloromethane	**19.8**	0.40	ug/L	20.0	<0.50	99.1	70-130	1.15	30	
1,2-Dibromoethane (EDB)	**18.5**	0.40	ug/L	20.0	<0.50	92.4	76-130	0.862	30	
Dibromomethane	**15.3**	0.40	ug/L	20.0	<0.50	76.6	62-135	3.15	30	
1,3-Dichlorobenzene	**18.3**	0.40	ug/L	20.0	<0.50	91.4	70-130	0.164	30	
1,4-Dichlorobenzene	**18.3**	0.30	ug/L	20.0	<0.50	91.4	70-130	0.546	30	
1,2-Dichlorobenzene	**18.6**	0.30	ug/L	20.0	<0.50	93.0	70-130	0.756	30	
Dichlorodifluoromethane (R12)	**14.7**	0.40	ug/L	20.0	<0.50	73.3	17-153	7.58	30	
1,1-Dichloroethane	**16.4**	0.20	ug/L	20.0	0.660	78.5	55-131	1.23	30	
1,2-Dichloroethane (EDC)	**18.3**	0.20	ug/L	20.0	3.38	74.8	52-168	1.10	30	
cis-1,2-Dichloroethylene	**32.2**	0.30	ug/L	20.0	21.0	56.2	70-130	6.27	30	QM-07
1,1-Dichloroethylene	**16.9**	0.40	ug/L	20.0	0.620	81.2	51-140	1.07	30	
trans-1,2-Dichloroethylene	**18.7**	0.30	ug/L	20.0	2.47	81.2	59-127	2.38	30	
1,3-Dichloropropane	**17.6**	0.40	ug/L	20.0	<0.50	87.8	80-121	1.47	30	
1,2-Dichloropropane	**16.1**	0.30	ug/L	20.0	<0.50	80.3	52-142	1.18	30	
2,2-Dichloropropane	**15.8**	0.30	ug/L	20.0	<0.50	79.0	36-168	0.694	30	
trans-1,3-Dichloropropylene	**18.7**	0.30	ug/L	20.0	<0.50	93.3	78-130	2.96	30	
1,1-Dichloropropylene	**17.0**	0.30	ug/L	20.0	<0.50	84.9	76-132	1.13	30	
cis-1,3-Dichloropropylene	**17.0**	0.40	ug/L	20.0	<0.50	85.2	66-130	1.80	30	
Ethylbenzene	**19.0**	0.30	ug/L	20.0	<0.50	95.0	86-128	0.740	30	
Hexachlorobutadiene	**16.1**	0.50	ug/L	20.0	<1.0	80.4	70-130	5.33	30	
2-Hexanone (MBK)	**14.8**	8.4	ug/L	20.0	<20	73.9	52-141	6.16	30	J
Isopropylbenzene	**18.8**	0.30	ug/L	20.0	<0.50	93.9	70-130	0.748	30	
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0	<1.0	94.8	83-149	0.264	30	
Methyl-tert-Butyl Ether (MTBE)	**33.8**	1.2	ug/L	40.0	<2.0	84.4	56-150	0.297	30	
Methylene Chloride	**15.4**	4.4	ug/L	20.0	<5.0	76.8	70-130	0.916	30	
4-Methyl-2-pentanone (MIBK)	**16.1**	9.8	ug/L	20.0	<20	80.3	60-148	2.33	30	J
Naphthalene	**19.9**	0.40	ug/L	20.0	<2.0	99.4	70-130	11.7	30	
n-Propylbenzene	**18.7**	0.20	ug/L	20.0	<0.50	93.7	70-130	0.911	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0336 - EPA 5030B										
Matrix Spike Dup (B4L0336-MSD1) Continued	**Source: 4K22003-05**			Prepared: 12/03/24		Analyzed: 12/04/24				
Styrene	**19.1**	0.20	ug/L	20.0	<0.50	95.4	65-141	0.0525	30	
1,1,1,2-Tetrachloroethane	**20.1**	0.30	ug/L	20.0	<0.50	101	70-130	1.38	30	
1,1,2,2-Tetrachloroethane	**17.6**	0.40	ug/L	20.0	<0.50	88.0	62-134	1.31	30	
Tetrachloroethylene (PCE)	**20.2**	0.50	ug/L	20.0	<0.50	101	70-130	0.198	30	
Toluene	**18.5**	0.20	ug/L	20.0	<0.50	92.4	81-123	1.24	30	
1,2,4-Trichlorobenzene	**17.4**	0.30	ug/L	20.0	<0.50	87.2	80-137	3.62	30	
1,2,3-Trichlorobenzene	**16.9**	0.50	ug/L	20.0	<0.50	84.6	73-144	11.8	30	
1,1,2-Trichloroethane	**17.6**	0.30	ug/L	20.0	<0.50	88.0	76-122	3.79	30	
1,1,1-Trichloroethane	**17.3**	0.30	ug/L	20.0	<0.50	86.4	62-164	0.0579	30	
Trichloroethylene (TCE)	**16.6**	0.30	ug/L	20.0	<0.50	82.8	72-136	1.20	30	
Trichlorofluoromethane (R11)	**19.2**	0.40	ug/L	20.0	<0.50	96.0	59-144	12.7	30	
1,2,3-Trichloropropane	**17.6**	0.20	ug/L	20.0	<0.50	88.0	69-135	3.12	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.1**	0.30	ug/L	20.0	<0.50	80.4	62-126	4.45	30	
1,2,4-Trimethylbenzene	**18.5**	0.30	ug/L	20.0	<0.50	92.3	89-134	2.36	30	
1,3,5-Trimethylbenzene	**18.3**	0.20	ug/L	20.0	<0.50	91.4	70-130	0.274	30	
Vinyl chloride	**39.7**	0.40	ug/L	20.0	30.1	48.1	54-150	11.4	30	QM-07
o-Xylene	**18.2**	0.30	ug/L	20.0	<0.50	91.0	70-130	0.496	30	
m,p-Xylenes	**37.7**	0.60	ug/L	40.0	<1.0	94.2	70-130	1.07	30	
Surrogate: 4-Bromofluorobenzene	*44.7*		*ug/L*	*50.0*		*89.5*	*80-129*			
Surrogate: Dibromofluoromethane	*43.5*		*ug/L*	*50.0*		*87.0*	*68-137*			
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95.4*	*83-134*			
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1)				Prepared & Analyzed: 12/04/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1) Continued				Prepared & Analyzed: 12/04/24						
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1) Continued				Prepared & Analyzed: 12/04/24						
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*45.3*		*ug/L*	*50.0*		*90.6*	*80-129*			
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93.1*	*68-137*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
Blank (B4L0420-BLK1) Continued				Prepared & Analyzed: 12/04/24						
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.0*		*96.8*	*83-134*			
LCS (B4L0420-BS1)				Prepared & Analyzed: 12/04/24						
Acetone	**19.7**	7.7	ug/L	20.0		98.5	27-123			J
Benzene	**16.8**	0.40	ug/L	20.0		84.2	60-134			
Bromobenzene	**18.7**	0.40	ug/L	20.0		93.7	70-130			
Bromochloromethane	**16.7**	0.20	ug/L	20.0		83.6	78-121			
Bromodichloromethane	**16.3**	0.40	ug/L	20.0		81.3	74-135			
Bromoform	**20.6**	0.40	ug/L	20.0		103	68-132			
Bromomethane	**17.6**	0.30	ug/L	20.0		88.0	58-142			
2-Butanone (MEK)	**15.1**	8.6	ug/L	20.0		75.3	62-138			J
tert-Butylbenzene	**18.7**	0.20	ug/L	20.0		93.4	70-130			
n-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.4	70-130			
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.3	84-142			
Carbon Disulfide	**18.0**	0.20	ug/L	20.0		89.8	17-177			
Carbon Tetrachloride	**17.5**	0.30	ug/L	20.0		87.4	66-155			
Chlorobenzene	**18.8**	0.40	ug/L	20.0		93.8	70-130			
Chloroethane	**17.6**	0.40	ug/L	20.0		88.2	45-166			
Chloroform	**16.1**	0.30	ug/L	20.0		80.5	71-131			
Chloromethane	**15.2**	0.40	ug/L	20.0		76.2	48-152			
4-Chlorotoluene	**17.4**	0.20	ug/L	20.0		87.1	70-130			
2-Chlorotoluene	**17.0**	0.20	ug/L	20.0		84.8	70-130			
1,2-Dibromo-3-chloropropane	**16.3**	0.40	ug/L	20.0		81.7	53-145			
Dibromochloromethane	**19.0**	0.40	ug/L	20.0		94.8	72-133			
1,2-Dibromoethane (EDB)	**17.3**	0.40	ug/L	20.0		86.7	79-120			
Dibromomethane	**15.2**	0.40	ug/L	20.0		75.9	68-124			
1,3-Dichlorobenzene	**18.1**	0.40	ug/L	20.0		90.6	70-130			
1,4-Dichlorobenzene	**18.4**	0.30	ug/L	20.0		91.9	70-130			
1,2-Dichlorobenzene	**18.6**	0.30	ug/L	20.0		93.2	70-130			
Dichlorodifluoromethane (R12)	**10.3**	0.40	ug/L	20.0		51.4	16-148			
1,1-Dichloroethane	**15.9**	0.20	ug/L	20.0		79.4	67-120			
1,2-Dichloroethane (EDC)	**15.2**	0.20	ug/L	20.0		76.2	57-156			
cis-1,2-Dichloroethylene	**16.4**	0.30	ug/L	20.0		82.2	70-124			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS (B4L0420-BS1) Continued				Prepared & Analyzed: 12/04/24						
1,1-Dichloroethylene	**16.5**	0.40	ug/L	20.0		82.4	50-149			
trans-1,2-Dichloroethylene	**16.8**	0.30	ug/L	20.0		83.8	66-126			
1,3-Dichloropropane	**16.6**	0.40	ug/L	20.0		83.2	79-113			
1,2-Dichloropropane	**15.2**	0.30	ug/L	20.0		76.2	53-139			
2,2-Dichloropropane	**16.8**	0.30	ug/L	20.0		84.2	44-162			
trans-1,3-Dichloropropylene	**18.2**	0.30	ug/L	20.0		91.2	76-121			
1,1-Dichloropropylene	**16.7**	0.30	ug/L	20.0		83.4	84-124			QL-05A
cis-1,3-Dichloropropylene	**16.7**	0.40	ug/L	20.0		83.6	67-127			
Ethylbenzene	**18.8**	0.30	ug/L	20.0		94.0	86-124			
Hexachlorobutadiene	**20.5**	0.50	ug/L	20.0		103	76-140			
2-Hexanone (MBK)	**14.8**	8.4	ug/L	20.0		74.2	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.5	70-130			
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0		95.1	70-130			
Methyl-tert-Butyl Ether (MTBE)	**31.8**	1.2	ug/L	40.0		79.5	58-144			
Methylene Chloride	**15.4**	4.4	ug/L	20.0		77.1	50-135			
4-Methyl-2-pentanone (MIBK)	**15.6**	9.8	ug/L	20.0		77.9	49-139			J
Naphthalene	**18.6**	0.40	ug/L	20.0		93.1	74-128			
n-Propylbenzene	**18.6**	0.20	ug/L	20.0		93.1	70-130			
Styrene	**18.8**	0.20	ug/L	20.0		93.8	84-123			
1,1,1,2-Tetrachloroethane	**19.5**	0.30	ug/L	20.0		97.4	70-130			
1,1,2,2-Tetrachloroethane	**16.7**	0.40	ug/L	20.0		83.5	58-126			
Tetrachloroethylene (PCE)	**20.0**	0.50	ug/L	20.0		100	70-130			
Toluene	**17.8**	0.20	ug/L	20.0		89.1	83-118			
1,2,4-Trichlorobenzene	**20.0**	0.30	ug/L	20.0		100	84-128			
1,2,3-Trichlorobenzene	**19.1**	0.50	ug/L	20.0		95.4	77-134			
1,1,2-Trichloroethane	**16.8**	0.30	ug/L	20.0		83.8	75-115			
1,1,1-Trichloroethane	**17.1**	0.30	ug/L	20.0		85.6	66-158			
Trichloroethylene (TCE)	**16.2**	0.30	ug/L	20.0		81.2	82-128			QL-05A
Trichlorofluoromethane (R11)	**15.2**	0.40	ug/L	20.0		75.8	65-137			
1,2,3-Trichloropropane	**16.2**	0.20	ug/L	20.0		81.0	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.9**	0.30	ug/L	20.0		79.5	62-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS (B4L0420-BS1) Continued				Prepared & Analyzed: 12/04/24						
1,2,4-Trimethylbenzene	**18.2**	0.30	ug/L	20.0		90.8	70-130			
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0		91.2	70-130			
Vinyl chloride	**17.8**	0.40	ug/L	20.0		89.0	51-151			
o-Xylene	**18.3**	0.30	ug/L	20.0		91.3	70-130			
m,p-Xylenes	**37.8**	0.60	ug/L	40.0		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	*43.8*		*ug/L*	*50.0*		*87.7*	*80-129*			
Surrogate: Dibromofluoromethane	*42.6*		*ug/L*	*50.0*		*85.2*	*68-137*			
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95.4*	*83-134*			
LCS Dup (B4L0420-BSD1)				Prepared & Analyzed: 12/04/24						
Acetone	**20.3**	7.7	ug/L	20.0		102	27-123	3.10	30	J
Benzene	**16.8**	0.40	ug/L	20.0		83.9	60-134	0.416	30	
Bromobenzene	**19.9**	0.40	ug/L	20.0		99.3	70-130	5.80	30	
Bromochloromethane	**17.0**	0.20	ug/L	20.0		84.8	78-121	1.37	30	
Bromodichloromethane	**16.2**	0.40	ug/L	20.0		81.0	74-135	0.308	30	
Bromoform	**22.6**	0.40	ug/L	20.0		113	68-132	9.16	30	
Bromomethane	**17.3**	0.30	ug/L	20.0		86.5	58-142	1.78	30	
2-Butanone (MEK)	**16.4**	8.6	ug/L	20.0		81.8	62-138	8.27	30	J
tert-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.6	70-130	1.22	30	
n-Butylbenzene	**18.9**	0.20	ug/L	20.0		94.4	70-130	0.00	30	
sec-Butylbenzene	**18.5**	0.20	ug/L	20.0		92.4	84-142	2.35	30	
Carbon Disulfide	**17.9**	0.20	ug/L	20.0		89.6	17-177	0.223	30	
Carbon Tetrachloride	**16.9**	0.30	ug/L	20.0		84.6	66-155	3.26	30	
Chlorobenzene	**19.0**	0.40	ug/L	20.0		94.8	70-130	1.01	30	
Chloroethane	**17.2**	0.40	ug/L	20.0		86.2	45-166	2.29	30	
Chloroform	**15.8**	0.30	ug/L	20.0		79.2	71-131	1.69	30	
Chloromethane	**16.4**	0.40	ug/L	20.0		82.0	48-152	7.39	30	
4-Chlorotoluene	**17.9**	0.20	ug/L	20.0		89.4	70-130	2.66	30	
2-Chlorotoluene	**17.4**	0.20	ug/L	20.0		86.8	70-130	2.27	30	
1,2-Dibromo-3-chloropropane	**18.5**	0.40	ug/L	20.0		92.6	53-145	12.5	30	
Dibromochloromethane	**20.0**	0.40	ug/L	20.0		99.8	72-133	5.09	30	
1,2-Dibromoethane (EDB)	**19.0**	0.40	ug/L	20.0		94.9	79-120	9.03	30	

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS Dup (B4L0420-BSD1) Continued				Prepared & Analyzed: 12/04/24						
Dibromomethane	**15.9**	0.40	ug/L	20.0		79.7	68-124	4.88	30	
1,3-Dichlorobenzene	**19.0**	0.40	ug/L	20.0		95.1	70-130	4.90	30	
1,4-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.0	70-130	3.37	30	
1,2-Dichlorobenzene	**19.2**	0.30	ug/L	20.0		96.0	70-130	2.91	30	
Dichlorodifluoromethane (R12)	**10.6**	0.40	ug/L	20.0		53.2	16-148	3.34	30	
1,1-Dichloroethane	**15.5**	0.20	ug/L	20.0		77.6	67-120	2.42	30	
1,2-Dichloroethane (EDC)	**15.2**	0.20	ug/L	20.0		75.9	57-156	0.394	30	
cis-1,2-Dichloroethylene	**16.3**	0.30	ug/L	20.0		81.6	70-124	0.733	30	
1,1-Dichloroethylene	**16.4**	0.40	ug/L	20.0		82.0	50-149	0.608	30	
trans-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.3	66-126	0.595	30	
1,3-Dichloropropane	**17.5**	0.40	ug/L	20.0		87.6	79-113	5.15	30	
1,2-Dichloropropane	**15.4**	0.30	ug/L	20.0		77.0	53-139	0.914	30	
2,2-Dichloropropane	**16.5**	0.30	ug/L	20.0		82.3	44-162	2.22	30	
trans-1,3-Dichloropropylene	**19.1**	0.30	ug/L	20.0		95.6	76-121	4.71	30	
1,1-Dichloropropylene	**16.0**	0.30	ug/L	20.0		80.2	84-124	3.91	30	QL-05A
cis-1,3-Dichloropropylene	**16.6**	0.40	ug/L	20.0		82.8	67-127	1.08	30	
Ethylbenzene	**19.2**	0.30	ug/L	20.0		96.2	86-124	2.37	30	
Hexachlorobutadiene	**19.9**	0.50	ug/L	20.0		99.6	76-140	3.11	30	
2-Hexanone (MBK)	**18.1**	8.4	ug/L	20.0		90.4	52-123	19.8	30	J
Isopropylbenzene	**18.4**	0.30	ug/L	20.0		92.2	70-130	1.81	30	
4-Isopropyltoluene	**19.5**	0.30	ug/L	20.0		97.4	70-130	2.34	30	
Methyl-tert-Butyl Ether (MTBE)	**34.6**	1.2	ug/L	40.0		86.6	58-144	8.55	30	
Methylene Chloride	**15.4**	4.4	ug/L	20.0		76.8	50-135	0.325	30	
4-Methyl-2-pentanone (MIBK)	**18.2**	9.8	ug/L	20.0		91.0	49-139	15.5	30	J
Naphthalene	**20.9**	0.40	ug/L	20.0		105	74-128	11.7	30	
n-Propylbenzene	**19.1**	0.20	ug/L	20.0		95.6	70-130	2.70	30	
Styrene	**19.2**	0.20	ug/L	20.0		96.2	84-123	2.58	30	
1,1,1,2-Tetrachloroethane	**19.4**	0.30	ug/L	20.0		97.0	70-130	0.309	30	
1,1,2,2-Tetrachloroethane	**18.3**	0.40	ug/L	20.0		91.5	58-126	9.14	30	
Tetrachloroethylene (PCE)	**20.4**	0.50	ug/L	20.0		102	70-130	1.98	30	
Toluene	**18.5**	0.20	ug/L	20.0		92.5	83-118	3.74	30	
1,2,4-Trichlorobenzene	**19.7**	0.30	ug/L	20.0		98.5	84-128	1.51	30	

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0420 - EPA 5030B										
LCS Dup (B4L0420-BSD1) Continued				Prepared & Analyzed: 12/04/24						
1,2,3-Trichlorobenzene	**20.1**	0.50	ug/L	20.0		100	77-134	5.06	30	
1,1,2-Trichloroethane	**18.0**	0.30	ug/L	20.0		90.0	75-115	7.14	30	
1,1,1-Trichloroethane	**16.4**	0.30	ug/L	20.0		82.0	66-158	4.24	30	
Trichloroethylene (TCE)	**15.9**	0.30	ug/L	20.0		79.5	82-128	2.18	30	QL-05A
Trichlorofluoromethane (R11)	**17.0**	0.40	ug/L	20.0		85.2	65-137	11.7	30	
1,2,3-Trichloropropane	**18.0**	0.20	ug/L	20.0		90.2	68-123	10.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.0**	0.30	ug/L	20.0		75.2	62-130	5.63	30	
1,2,4-Trimethylbenzene	**18.7**	0.30	ug/L	20.0		93.4	70-130	2.82	30	
1,3,5-Trimethylbenzene	**18.6**	0.20	ug/L	20.0		93.2	70-130	2.12	30	
Vinyl chloride	**16.3**	0.40	ug/L	20.0		81.6	51-151	8.62	30	
o-Xylene	**18.6**	0.30	ug/L	20.0		92.8	70-130	1.63	30	
m,p-Xylenes	**38.0**	0.60	ug/L	40.0		94.9	70-130	0.449	30	
Surrogate: 4-Bromofluorobenzene	*44.2*		*ug/L*	*50.0*		*88.3*	*80-129*			
Surrogate: Dibromofluoromethane	*41.0*		*ug/L*	*50.0*		*82.0*	*68-137*			
Surrogate: Toluene-d8	*47.9*		*ug/L*	*50.0*		*95.8*	*83-134*			
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1)				Prepared & Analyzed: 12/05/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1) Continued				Prepared & Analyzed: 12/05/24						
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1) Continued				Prepared & Analyzed: 12/05/24						
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*47.6*		*ug/L*	*50.0*		*95.2*	*80-129*			
Surrogate: Dibromofluoromethane	*45.6*		*ug/L*	*50.0*		*91.2*	*68-137*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.8*	*83-134*			
LCS (B4L0520-BS1)				Prepared & Analyzed: 12/05/24						
Acetone	**19.6**	7.7	ug/L	20.0		97.8	27-123			J
Benzene	**16.8**	0.40	ug/L	20.0		83.9	60-134			
Bromobenzene	**18.4**	0.40	ug/L	20.0		91.9	70-130			
Bromochloromethane	**16.7**	0.20	ug/L	20.0		83.7	78-121			
Bromodichloromethane	**17.3**	0.40	ug/L	20.0		86.6	74-135			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
Bromoform	**21.5**	0.40	ug/L	20.0		108	68-132			
Bromomethane	**17.8**	0.30	ug/L	20.0		89.2	58-142			
2-Butanone (MEK)	**17.3**	8.6	ug/L	20.0		86.6	62-138			J
tert-Butylbenzene	**18.4**	0.20	ug/L	20.0		91.9	70-130			
n-Butylbenzene	**18.5**	0.20	ug/L	20.0		92.5	70-130			
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.6	84-142			
Carbon Disulfide	**17.9**	0.20	ug/L	20.0		89.4	17-177			
Carbon Tetrachloride	**17.2**	0.30	ug/L	20.0		86.2	66-155			
Chlorobenzene	**18.5**	0.40	ug/L	20.0		92.6	70-130			
Chloroethane	**18.2**	0.40	ug/L	20.0		91.0	45-166			
Chloroform	**16.6**	0.30	ug/L	20.0		83.0	71-131			
Chloromethane	**15.6**	0.40	ug/L	20.0		78.1	48-152			
4-Chlorotoluene	**17.6**	0.20	ug/L	20.0		87.9	70-130			
2-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.2	70-130			
1,2-Dibromo-3-chloropropane	**20.1**	0.40	ug/L	20.0		100	53-145			
Dibromochloromethane	**20.0**	0.40	ug/L	20.0		100	72-133			
1,2-Dibromoethane (EDB)	**18.7**	0.40	ug/L	20.0		93.4	79-120			
Dibromomethane	**16.7**	0.40	ug/L	20.0		83.4	68-124			
1,3-Dichlorobenzene	**17.8**	0.40	ug/L	20.0		88.9	70-130			
1,4-Dichlorobenzene	**17.9**	0.30	ug/L	20.0		89.6	70-130			
1,2-Dichlorobenzene	**18.3**	0.30	ug/L	20.0		91.5	70-130			
Dichlorodifluoromethane (R12)	**11.2**	0.40	ug/L	20.0		55.9	16-148			
1,1-Dichloroethane	**15.8**	0.20	ug/L	20.0		79.2	67-120			
1,2-Dichloroethane (EDC)	**16.2**	0.20	ug/L	20.0		81.2	57-156			
cis-1,2-Dichloroethylene	**16.6**	0.30	ug/L	20.0		83.0	70-124			
1,1-Dichloroethylene	**16.4**	0.40	ug/L	20.0		81.9	50-149			
trans-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.4	66-126			
1,3-Dichloropropane	**18.0**	0.40	ug/L	20.0		90.2	79-113			
1,2-Dichloropropane	**16.2**	0.30	ug/L	20.0		81.0	53-139			
2,2-Dichloropropane	**16.3**	0.30	ug/L	20.0		81.4	44-162			
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0		96.0	76-121			
1,1-Dichloropropylene	**16.4**	0.30	ug/L	20.0		82.2	84-124			QL-02

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
cis-1,3-Dichloropropylene	**17.5**	0.40	ug/L	20.0		87.6	67-127			
Ethylbenzene	**18.5**	0.30	ug/L	20.0		92.4	86-124			
Hexachlorobutadiene	**18.4**	0.50	ug/L	20.0		91.8	76-140			
2-Hexanone (MBK)	**18.6**	8.4	ug/L	20.0		93.2	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.3	70-130			
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0		94.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**34.7**	1.2	ug/L	40.0		86.8	58-144			
Methylene Chloride	**15.1**	4.4	ug/L	20.0		75.6	50-135			
4-Methyl-2-pentanone (MIBK)	**18.4**	9.8	ug/L	20.0		92.2	49-139			J
Naphthalene	**19.9**	0.40	ug/L	20.0		99.4	74-128			
n-Propylbenzene	**18.5**	0.20	ug/L	20.0		92.3	70-130			
Styrene	**19.1**	0.20	ug/L	20.0		95.3	84-123			
1,1,1,2-Tetrachloroethane	**19.1**	0.30	ug/L	20.0		95.6	70-130			
1,1,2,2-Tetrachloroethane	**19.2**	0.40	ug/L	20.0		95.8	58-126			
Tetrachloroethylene (PCE)	**18.2**	0.50	ug/L	20.0		90.8	70-130			
Toluene	**18.1**	0.20	ug/L	20.0		90.4	83-118			
1,2,4-Trichlorobenzene	**18.0**	0.30	ug/L	20.0		89.8	84-128			
1,2,3-Trichlorobenzene	**17.4**	0.50	ug/L	20.0		87.1	77-134			
1,1,2-Trichloroethane	**18.2**	0.30	ug/L	20.0		90.8	75-115			
1,1,1-Trichloroethane	**16.8**	0.30	ug/L	20.0		84.1	66-158			
Trichloroethylene (TCE)	**16.2**	0.30	ug/L	20.0		81.0	82-128			QL-02
Trichlorofluoromethane (R11)	**18.8**	0.40	ug/L	20.0		94.2	65-137			
1,2,3-Trichloropropane	**18.9**	0.20	ug/L	20.0		94.6	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.0**	0.30	ug/L	20.0		75.2	62-130			
1,2,4-Trimethylbenzene	**17.8**	0.30	ug/L	20.0		89.0	70-130			
1,3,5-Trimethylbenzene	**17.9**	0.20	ug/L	20.0		89.3	70-130			
Vinyl chloride	**17.9**	0.40	ug/L	20.0		89.4	51-151			
o-Xylene	**18.0**	0.30	ug/L	20.0		89.8	70-130			
m,p-Xylenes	**35.9**	0.60	ug/L	40.0		89.8	70-130			
Surrogate: 4-Bromofluorobenzene	*45.9*		*ug/L*	*50.0*		*91.7*	*80-129*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*89.9*	*68-137*			
Surrogate: Toluene-d8	*47.4*		*ug/L*	*50.0*		*94.9*	*83-134*			
LCS Dup (B4L0520-BSD1)				Prepared & Analyzed: 12/05/24						
Acetone	**22.7**	7.7	ug/L	20.0		114	27-123	15.0	30	J
Benzene	**18.5**	0.40	ug/L	20.0		92.6	60-134	9.80	30	
Bromobenzene	**18.7**	0.40	ug/L	20.0		93.6	70-130	1.83	30	
Bromochloromethane	**17.8**	0.20	ug/L	20.0		89.2	78-121	6.42	30	
Bromodichloromethane	**18.8**	0.40	ug/L	20.0		94.0	74-135	8.31	30	
Bromoform	**21.0**	0.40	ug/L	20.0		105	68-132	2.21	30	
Bromomethane	**19.4**	0.30	ug/L	20.0		96.8	58-142	8.18	30	
2-Butanone (MEK)	**17.9**	8.6	ug/L	20.0		89.6	62-138	3.35	30	J
tert-Butylbenzene	**19.2**	0.20	ug/L	20.0		96.1	70-130	4.47	30	
n-Butylbenzene	**20.0**	0.20	ug/L	20.0		99.8	70-130	7.64	30	
sec-Butylbenzene	**19.4**	0.20	ug/L	20.0		96.8	84-142	6.56	30	
Carbon Disulfide	**18.9**	0.20	ug/L	20.0		94.7	17-177	5.81	30	
Carbon Tetrachloride	**18.3**	0.30	ug/L	20.0		91.6	66-155	6.02	30	
Chlorobenzene	**18.7**	0.40	ug/L	20.0		93.4	70-130	0.807	30	
Chloroethane	**20.9**	0.40	ug/L	20.0		105	45-166	13.9	30	
Chloroform	**18.2**	0.30	ug/L	20.0		91.2	71-131	9.35	30	
Chloromethane	**16.2**	0.40	ug/L	20.0		81.1	48-152	3.77	30	
4-Chlorotoluene	**18.6**	0.20	ug/L	20.0		93.0	70-130	5.58	30	
2-Chlorotoluene	**18.2**	0.20	ug/L	20.0		90.8	70-130	5.20	30	
1,2-Dibromo-3-chloropropane	**20.3**	0.40	ug/L	20.0		101	53-145	1.09	30	
Dibromochloromethane	**19.6**	0.40	ug/L	20.0		97.9	72-133	2.12	30	
1,2-Dibromoethane (EDB)	**19.3**	0.40	ug/L	20.0		96.6	79-120	3.32	30	
Dibromomethane	**18.0**	0.40	ug/L	20.0		90.2	68-124	7.95	30	
1,3-Dichlorobenzene	**18.3**	0.40	ug/L	20.0		91.4	70-130	2.77	30	
1,4-Dichlorobenzene	**18.4**	0.30	ug/L	20.0		92.2	70-130	2.92	30	
1,2-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.2	70-130	3.96	30	
Dichlorodifluoromethane (R12)	**12.4**	0.40	ug/L	20.0		61.8	16-148	10.1	30	
1,1-Dichloroethane	**17.9**	0.20	ug/L	20.0		89.4	67-120	12.0	30	
1,2-Dichloroethane (EDC)	**18.1**	0.20	ug/L	20.0		90.7	57-156	11.1	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS Dup (B4L0520-BSD1) Continued				Prepared & Analyzed: 12/05/24						
cis-1,2-Dichloroethylene	**18.2**	0.30	ug/L	20.0		90.8	70-124	9.03	30	
1,1-Dichloroethylene	**17.5**	0.40	ug/L	20.0		87.6	50-149	6.67	30	
trans-1,2-Dichloroethylene	**18.3**	0.30	ug/L	20.0		91.4	66-126	8.02	30	
1,3-Dichloropropane	**18.7**	0.40	ug/L	20.0		93.4	79-113	3.54	30	
1,2-Dichloropropane	**18.3**	0.30	ug/L	20.0		91.4	53-139	12.1	30	
2,2-Dichloropropane	**16.8**	0.30	ug/L	20.0		84.2	44-162	3.32	30	
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0		96.2	76-121	0.260	30	
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.1	84-124	9.11	30	
cis-1,3-Dichloropropylene	**18.6**	0.40	ug/L	20.0		93.2	67-127	6.20	30	
Ethylbenzene	**19.4**	0.30	ug/L	20.0		96.8	86-124	4.76	30	
Hexachlorobutadiene	**18.2**	0.50	ug/L	20.0		91.0	76-140	0.820	30	
2-Hexanone (MBK)	**17.8**	8.4	ug/L	20.0		88.8	52-123	4.78	30	J
Isopropylbenzene	**19.3**	0.30	ug/L	20.0		96.6	70-130	6.74	30	
4-Isopropyltoluene	**19.6**	0.30	ug/L	20.0		98.0	70-130	3.32	30	
Methyl-tert-Butyl Ether (MTBE)	**38.3**	1.2	ug/L	40.0		95.7	58-144	9.78	30	
Methylene Chloride	**16.9**	4.4	ug/L	20.0		84.4	50-135	11.0	30	
4-Methyl-2-pentanone (MIBK)	**18.8**	9.8	ug/L	20.0		94.0	49-139	2.04	30	J
Naphthalene	**21.3**	0.40	ug/L	20.0		107	74-128	6.99	30	
n-Propylbenzene	**19.8**	0.20	ug/L	20.0		99.0	70-130	7.06	30	
Styrene	**19.1**	0.20	ug/L	20.0		95.6	84-123	0.367	30	
1,1,1,2-Tetrachloroethane	**19.2**	0.30	ug/L	20.0		96.0	70-130	0.417	30	
1,1,2,2-Tetrachloroethane	**19.6**	0.40	ug/L	20.0		98.0	58-126	2.32	30	
Tetrachloroethylene (PCE)	**18.4**	0.50	ug/L	20.0		92.2	70-130	1.53	30	
Toluene	**18.5**	0.20	ug/L	20.0		92.7	83-118	2.51	30	
1,2,4-Trichlorobenzene	**18.3**	0.30	ug/L	20.0		91.7	84-128	2.04	30	
1,2,3-Trichlorobenzene	**18.2**	0.50	ug/L	20.0		90.8	77-134	4.21	30	
1,1,2-Trichloroethane	**18.8**	0.30	ug/L	20.0		93.8	75-115	3.31	30	
1,1,1-Trichloroethane	**18.7**	0.30	ug/L	20.0		93.4	66-158	10.5	30	
Trichloroethylene (TCE)	**17.8**	0.30	ug/L	20.0		88.8	82-128	9.19	30	
Trichlorofluoromethane (R11)	**20.5**	0.40	ug/L	20.0		103	65-137	8.49	30	
1,2,3-Trichloropropane	**18.8**	0.20	ug/L	20.0		93.9	68-123	0.743	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS Dup (B4L0520-BSD1) Continued				Prepared & Analyzed: 12/05/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.5**	0.30	ug/L	20.0		82.6	62-130	9.38	30	
1,2,4-Trimethylbenzene	**19.2**	0.30	ug/L	20.0		95.8	70-130	7.30	30	
1,3,5-Trimethylbenzene	**19.0**	0.20	ug/L	20.0		95.0	70-130	6.24	30	
Vinyl chloride	**20.0**	0.40	ug/L	20.0		100	51-151	11.5	30	
o-Xylene	**18.4**	0.30	ug/L	20.0		92.0	70-130	2.36	30	
m,p-Xylenes	**37.0**	0.60	ug/L	40.0		92.5	70-130	2.94	30	
Surrogate: 4-Bromofluorobenzene	*48.4*		*ug/L*	*50.0*		*96.8*	*80-129*			
Surrogate: Dibromofluoromethane	*46.5*		*ug/L*	*50.0*		*93.0*	*68-137*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*97.6*	*83-134*			
Matrix Spike (B4L0520-MS1)		**Source: 4K25018-06**		Prepared & Analyzed: 12/05/24						
Acetone	**24.5**	7.7	ug/L	20.0		122	11-169			J
Benzene	**20.6**	0.40	ug/L	20.0		103	56-135			
Bromobenzene	**20.6**	0.40	ug/L	20.0		103	70-130			
Bromochloromethane	**19.7**	0.20	ug/L	20.0		98.6	74-125			
Bromodichloromethane	**20.6**	0.40	ug/L	20.0		103	68-144			
Bromoform	**25.0**	0.40	ug/L	20.0		125	68-151			
Bromomethane	**18.4**	0.30	ug/L	20.0		92.2	54-142			
2-Butanone (MEK)	**19.2**	8.6	ug/L	20.0		95.8	62-145			J
tert-Butylbenzene	**21.0**	0.20	ug/L	20.0		105	70-130			
n-Butylbenzene	**21.9**	0.20	ug/L	20.0		109	70-130			
sec-Butylbenzene	**21.6**	0.20	ug/L	20.0		108	84-145			
Carbon Disulfide	**22.1**	0.20	ug/L	20.0		110	28-151			
Carbon Tetrachloride	**20.8**	0.30	ug/L	20.0		104	58-164			
Chlorobenzene	**21.0**	0.40	ug/L	20.0		105	70-130			
Chloroethane	**20.4**	0.40	ug/L	20.0		102	42-164			
Chloroform	**19.5**	0.30	ug/L	20.0		97.4	65-138			
Chloromethane	**17.3**	0.40	ug/L	20.0		86.6	50-152			
4-Chlorotoluene	**20.7**	0.20	ug/L	20.0		103	70-130			
2-Chlorotoluene	**20.1**	0.20	ug/L	20.0		101	70-130			
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0		121	53-161			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike (B4L0520-MS1) Continued	**Source: 4K25018-06**	Prepared & Analyzed: 12/05/24								
Dibromochloromethane	**22.6**	0.40	ug/L	20.0		113	70-130			
1,2-Dibromoethane (EDB)	**21.6**	0.40	ug/L	20.0		108	76-130			
Dibromomethane	**20.2**	0.40	ug/L	20.0		101	62-135			
1,3-Dichlorobenzene	**20.3**	0.40	ug/L	20.0		102	70-130			
1,4-Dichlorobenzene	**20.4**	0.30	ug/L	20.0		102	70-130			
1,2-Dichlorobenzene	**20.9**	0.30	ug/L	20.0		104	70-130			
Dichlorodifluoromethane (R12)	**12.8**	0.40	ug/L	20.0		64.2	17-153			
1,1-Dichloroethane	**19.8**	0.20	ug/L	20.0		98.8	55-131			
1,2-Dichloroethane (EDC)	**20.1**	0.20	ug/L	20.0		100	52-168			
cis-1,2-Dichloroethylene	**20.6**	0.30	ug/L	20.0		103	70-130			
1,1-Dichloroethylene	**20.0**	0.40	ug/L	20.0		99.8	51-140			
trans-1,2-Dichloroethylene	**20.6**	0.30	ug/L	20.0		103	59-127			
1,3-Dichloropropane	**20.7**	0.40	ug/L	20.0		104	80-121			
1,2-Dichloropropane	**19.9**	0.30	ug/L	20.0		99.4	52-142			
2,2-Dichloropropane	**19.3**	0.30	ug/L	20.0		96.5	36-168			
trans-1,3-Dichloropropylene	**21.7**	0.30	ug/L	20.0		108	78-130			
1,1-Dichloropropylene	**20.4**	0.30	ug/L	20.0		102	76-132			
cis-1,3-Dichloropropylene	**20.4**	0.40	ug/L	20.0		102	66-130			
Ethylbenzene	**21.5**	0.30	ug/L	20.0		108	86-128			
Hexachlorobutadiene	**19.7**	0.50	ug/L	20.0		98.7	70-130			
2-Hexanone (MBK)	**21.7**	8.4	ug/L	20.0		108	52-141			
Isopropylbenzene	**21.3**	0.30	ug/L	20.0		106	70-130			
4-Isopropyltoluene	**21.9**	0.30	ug/L	20.0		109	83-149			
Methyl-tert-Butyl Ether (MTBE)	**41.8**	1.2	ug/L	40.0		104	56-150			
Methylene Chloride	**17.8**	4.4	ug/L	20.0		88.8	70-130			
4-Methyl-2-pentanone (MIBK)	**21.7**	9.8	ug/L	20.0		109	60-148			
Naphthalene	**22.1**	0.40	ug/L	20.0		111	70-130			
n-Propylbenzene	**21.9**	0.20	ug/L	20.0		109	70-130			
Styrene	**7.33**	0.20	ug/L	20.0		36.6	65-141			QM-07
1,1,1,2-Tetrachloroethane	**21.6**	0.30	ug/L	20.0		108	70-130			
1,1,2,2-Tetrachloroethane	**22.5**	0.40	ug/L	20.0		113	62-134			
Tetrachloroethylene (PCE)	**20.7**	0.50	ug/L	20.0		103	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike (B4L0520-MS1) Continued				**Source: 4K25018-06**			Prepared & Analyzed: 12/05/24			
Toluene	**20.9**	0.20	ug/L	20.0		104	81-123			
1,2,4-Trichlorobenzene	**20.0**	0.30	ug/L	20.0		99.8	80-137			
1,2,3-Trichlorobenzene	**18.9**	0.50	ug/L	20.0		94.6	73-144			
1,1,2-Trichloroethane	**21.1**	0.30	ug/L	20.0		105	76-122			
1,1,1-Trichloroethane	**20.5**	0.30	ug/L	20.0		103	62-164			
Trichloroethylene (TCE)	**20.3**	0.30	ug/L	20.0		101	72-136			
Trichlorofluoromethane (R11)	**22.1**	0.40	ug/L	20.0		110	59-144			
1,2,3-Trichloropropane	**21.3**	0.20	ug/L	20.0		107	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.2**	0.30	ug/L	20.0		86.2	62-126			
1,2,4-Trimethylbenzene	**21.1**	0.30	ug/L	20.0		106	89-134			
1,3,5-Trimethylbenzene	**21.1**	0.20	ug/L	20.0		105	70-130			
Vinyl chloride	**20.9**	0.40	ug/L	20.0		105	54-150			
o-Xylene	**20.8**	0.30	ug/L	20.0		104	70-130			
m,p-Xylenes	**42.1**	0.60	ug/L	40.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	*47.2*		*ug/L*	*50.0*		*94.4*	*80-129*			
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93.3*	*68-137*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*97.7*	*83-134*			
Matrix Spike Dup (B4L0520-MSD1)				**Source: 4K25018-06**			Prepared & Analyzed: 12/05/24			
Acetone	**23.5**	7.7	ug/L	20.0		118	11-169	3.96	30	J
Benzene	**18.5**	0.40	ug/L	20.0		92.4	56-135	10.9	30	
Bromobenzene	**19.3**	0.40	ug/L	20.0		96.7	70-130	6.16	30	
Bromochloromethane	**18.5**	0.20	ug/L	20.0		92.4	74-125	6.39	30	
Bromodichloromethane	**18.9**	0.40	ug/L	20.0		94.6	68-144	8.45	30	
Bromoform	**24.0**	0.40	ug/L	20.0		120	68-151	3.88	30	
Bromomethane	**18.5**	0.30	ug/L	20.0		92.7	54-142	0.487	30	
2-Butanone (MEK)	**20.3**	8.6	ug/L	20.0		101	62-145	5.73	30	
tert-Butylbenzene	**19.4**	0.20	ug/L	20.0		97.0	70-130	7.87	30	
n-Butylbenzene	**19.4**	0.20	ug/L	20.0		97.0	70-130	11.9	30	
sec-Butylbenzene	**19.4**	0.20	ug/L	20.0		97.0	84-145	10.8	30	
Carbon Disulfide	**19.5**	0.20	ug/L	20.0		97.6	28-151	12.2	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike Dup (B4L0520-MSD1) Continued				**Source: 4K25018-06**		Prepared & Analyzed: 12/05/24				
Carbon Tetrachloride	**18.7**	0.30	ug/L	20.0		93.7	58-164	10.4	30	
Chlorobenzene	**19.0**	0.40	ug/L	20.0		95.0	70-130	10.2	30	
Chloroethane	**20.1**	0.40	ug/L	20.0		100	42-164	1.29	30	
Chloroform	**18.0**	0.30	ug/L	20.0		90.0	65-138	8.00	30	
Chloromethane	**15.8**	0.40	ug/L	20.0		79.2	50-152	8.81	30	
4-Chlorotoluene	**18.8**	0.20	ug/L	20.0		94.2	70-130	9.22	30	
2-Chlorotoluene	**18.2**	0.20	ug/L	20.0		91.2	70-130	9.75	30	
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0		121	53-161	0.289	30	
Dibromochloromethane	**21.1**	0.40	ug/L	20.0		105	70-130	6.82	30	
1,2-Dibromoethane (EDB)	**20.8**	0.40	ug/L	20.0		104	76-130	3.30	30	
Dibromomethane	**19.6**	0.40	ug/L	20.0		98.0	62-135	2.82	30	
1,3-Dichlorobenzene	**18.9**	0.40	ug/L	20.0		94.6	70-130	7.23	30	
1,4-Dichlorobenzene	**18.7**	0.30	ug/L	20.0		93.6	70-130	8.74	30	
1,2-Dichlorobenzene	**19.5**	0.30	ug/L	20.0		97.6	70-130	6.73	30	
Dichlorodifluoromethane (R12)	**12.0**	0.40	ug/L	20.0		59.9	17-153	6.93	30	
1,1-Dichloroethane	**18.1**	0.20	ug/L	20.0		90.7	55-131	8.55	30	
1,2-Dichloroethane (EDC)	**19.0**	0.20	ug/L	20.0		94.8	52-168	5.64	30	
cis-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0		90.0	70-130	13.3	30	
1,1-Dichloroethylene	**17.8**	0.40	ug/L	20.0		89.0	51-140	11.4	30	
trans-1,2-Dichloroethylene	**18.2**	0.30	ug/L	20.0		90.8	59-127	12.4	30	
1,3-Dichloropropane	**19.7**	0.40	ug/L	20.0		98.7	80-121	4.75	30	
1,2-Dichloropropane	**18.3**	0.30	ug/L	20.0		91.6	52-142	8.27	30	
2,2-Dichloropropane	**17.2**	0.30	ug/L	20.0		85.8	36-168	11.7	30	
trans-1,3-Dichloropropylene	**20.1**	0.30	ug/L	20.0		100	78-130	7.57	30	
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.2	76-132	12.5	30	
cis-1,3-Dichloropropylene	**19.1**	0.40	ug/L	20.0		95.5	66-130	6.83	30	
Ethylbenzene	**19.2**	0.30	ug/L	20.0		96.0	86-128	11.3	30	
Hexachlorobutadiene	**17.2**	0.50	ug/L	20.0		86.2	70-130	13.5	30	
2-Hexanone (MBK)	**21.9**	8.4	ug/L	20.0		109	52-141	0.826	30	
Isopropylbenzene	**19.4**	0.30	ug/L	20.0		97.2	70-130	8.94	30	
4-Isopropyltoluene	**19.6**	0.30	ug/L	20.0		97.8	83-149	11.1	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike Dup (B4L0520-MSD1) Continued		**Source: 4K25018-06**			Prepared & Analyzed: 12/05/24					
Methyl-tert-Butyl Ether (MTBE)	**40.3**	1.2	ug/L	40.0		101	56-150	3.61	30	
Methylene Chloride	**16.3**	4.4	ug/L	20.0		81.4	70-130	8.70	30	
4-Methyl-2-pentanone (MIBK)	**23.8**	9.8	ug/L	20.0		119	60-148	9.05	30	
Naphthalene	**23.6**	0.40	ug/L	20.0		118	70-130	6.73	30	
n-Propylbenzene	**20.1**	0.20	ug/L	20.0		100	70-130	8.58	30	
Styrene	**7.94**	0.20	ug/L	20.0		39.7	65-141	7.99	30	QM-07
1,1,1,2-Tetrachloroethane	**19.9**	0.30	ug/L	20.0		99.7	70-130	8.13	30	
1,1,2,2-Tetrachloroethane	**22.6**	0.40	ug/L	20.0		113	62-134	0.354	30	
Tetrachloroethylene (PCE)	**18.8**	0.50	ug/L	20.0		93.9	70-130	9.63	30	
Toluene	**18.8**	0.20	ug/L	20.0		94.2	81-123	10.3	30	
1,2,4-Trichlorobenzene	**18.9**	0.30	ug/L	20.0		94.4	80-137	5.56	30	
1,2,3-Trichlorobenzene	**19.1**	0.50	ug/L	20.0		95.4	73-144	0.947	30	
1,1,2-Trichloroethane	**19.9**	0.30	ug/L	20.0		99.4	76-122	5.81	30	
1,1,1-Trichloroethane	**18.5**	0.30	ug/L	20.0		92.3	62-164	10.6	30	
Trichloroethylene (TCE)	**17.8**	0.30	ug/L	20.0		89.0	72-136	13.1	30	
Trichlorofluoromethane (R11)	**21.1**	0.40	ug/L	20.0		106	59-144	4.30	30	
1,2,3-Trichloropropane	**22.0**	0.20	ug/L	20.0		110	69-135	2.96	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.9**	0.30	ug/L	20.0		84.6	62-126	1.87	30	
1,2,4-Trimethylbenzene	**19.4**	0.30	ug/L	20.0		96.9	89-134	8.55	30	
1,3,5-Trimethylbenzene	**19.2**	0.20	ug/L	20.0		96.2	70-130	9.08	30	
Vinyl chloride	**18.9**	0.40	ug/L	20.0		94.6	54-150	9.94	30	
o-Xylene	**18.9**	0.30	ug/L	20.0		94.7	70-130	9.22	30	
m,p-Xylenes	**37.9**	0.60	ug/L	40.0		94.7	70-130	10.5	30	
Surrogate: 4-Bromofluorobenzene	*48.2*		*ug/L*	*50.0*		*96.4*	*80-129*			
Surrogate: Dibromofluoromethane	*47.0*		*ug/L*	*50.0*		*94.0*	*68-137*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99.0*	*83-134*			
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										
Blank (B4K2635-BLK1)					Prepared & Analyzed: 11/26/24					

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874673
Date Received: 11/22/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										
Blank (B4K2635-BLK1) Continued				Prepared & Analyzed: 11/26/24						
Methane	<2.0	2.0	ug/L							
Ethane	<2.0	2.0	ug/L							
Ethylene	<2.0	2.0	ug/L							
LCS (B4K2635-BS1)				Prepared & Analyzed: 11/26/24						
Methane	**9.50**	2.0	ug/L	10.1		94.1	75-125			
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125			
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125			
LCS Dup (B4K2635-BSD1)				Prepared & Analyzed: 11/26/24						
Methane	**9.48**	2.0	ug/L	10.1		93.9	75-125	0.211	30	
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125	0.206	30	
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125	0.235	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874673
Project No:	130072-025	**Date Received:**	11/22/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = O-01 : This compound is a possible field or laboratory contaminant.

[2] = QL-02 : The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.

[3] = QL-03 : The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.

[4] = QL-05 : The recovery for this analyte in the LCS and LCSD is marginally below the lower control limit. Analysis of a low concentration standard validated the ability of the analytical system to detect the analyte at the LOD or MRL.

[5] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[6] = QR-02 : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4K25038

Project Name: American Analytics
Project Number: Cooper Drum

P.O. #:

Report Date: 12/13/2024
Received Date: 11/25/2024 11:00 am
Turnaround Time: Normal
Billing Code:

Attn: *Viorel Vasile*
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: MW-22-112124

4K25038-01 (Water) — Sampled: 11/21/24 7:58 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-41-112124

4K25038-02 (Water) — Sampled: 11/21/24 9:01 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08				**Analyst:** JAN
1,2,3-Trichloropropane	**0.10**		0.0050	ug/l	1	11/28/24	

Sample: MW-24-112124

4K25038-03 (Water) — Sampled: 11/21/24 9:58 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample Results

(Continued)

Sample: MW-31B-112124

4K25038-04 (Water) — Sampled: 11/21/24 10:48 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08			**Analyst:** JAN	
1,2,3-Trichloropropane	0.020		0.0050	ug/l	1	11/28/24	

Sample: MW-31-112124

4K25038-05 (Water) — Sampled: 11/21/24 11:39 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08			**Analyst:** JAN	
1,2,3-Trichloropropane	0.048		0.0050	ug/l	1	11/28/24	

Sample: MW-32-112124

4K25038-06 (Water) — Sampled: 11/21/24 13:06 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-27-112124

4K25038-07 (Water) — Sampled: 11/21/24 13:39 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample Results

(Continued)

Sample: MW-28-112124

4K25038-08 (Water) — Sampled: 11/21/24 14:19 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08				**Analyst:** JAN
1,2,3-Trichloropropane	0.031		0.0050	ug/l	1	11/28/24	

Sample: QC14-112124

4K25038-09 (Water) — Sampled: 11/21/24 13:50 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2198 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:08				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-63-112124

4K25038-10 (Water) — Sampled: 11/21/24 14:55 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: EW-08-112124

4K25038-11 (Water) — Sampled: 11/21/24 8:10 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			Instr: GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample Results

(Continued)

Sample: MW-15-112124

4K25038-12 (Water) — Sampled: 11/21/24 9:00 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-18R-112124

4K25038-13 (Water) — Sampled: 11/21/24 9:42 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-33B-112124

4K25038-14 (Water) — Sampled: 11/21/24 10:29 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	0.024		0.0050	ug/l	1	11/28/24	

Sample: MW-20-112124

4K25038-15 (Water) — Sampled: 11/21/24 11:27 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	0.050		0.0050	ug/l	1	11/28/24	

Sample Results

(Continued)

Sample: MW-64A-112124

4K25038-16 (Water) — Sampled: 11/21/24 13:05 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: QC15-112124

4K25038-17 (Water) — Sampled: 11/21/24 13:10 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-64B-112124

4K25038-18 (Water) — Sampled: 11/21/24 14:05 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2199 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:11				**Analyst:** JAN
1,2,3-Trichloropropane	0.0052		0.0050	ug/l	1	11/28/24	

Sample: QC16-112124

4K25038-19 (Water) — Sampled: 11/21/24 14:20 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K2198 - EPA 5030B										
Blank (W4K2198-BLK1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2198-BS1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0225	0.0050	ug/l	0.0200		113	80-120			
LCS Dup (W4K2198-BSD1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0212	0.0050	ug/l	0.0200		106	80-120	6	20	
Matrix Spike (W4K2198-MS1)	Source: 4K25038-04		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0404	0.0050	ug/l	0.0200	*0.0204*	100	80-120			
Matrix Spike Dup (W4K2198-MSD1)	Source: 4K25038-04		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0445	0.0050	ug/l	0.0200	*0.0204*	121	80-120	10	200	MS-05
Batch: W4K2199 - EPA 5030B										
Blank (W4K2199-BLK1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2199-BS1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0229	0.0050	ug/l	0.0200		114	80-120			
LCS Dup (W4K2199-BSD1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0218	0.0050	ug/l	0.0200		109	80-120	5	20	
Duplicate (W4K2199-DUP1)	Source: 4K21096-08		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.00476	0.0050	ug/l		*0.00458*			4	20	
Batch: W4K2200 - EPA 5030B										
Blank (W4K2200-BLK1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2200-BS1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0236	0.0050	ug/l	0.0200		118	80-120			
LCS Dup (W4K2200-BSD1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0227	0.0050	ug/l	0.0200		114	80-120	4	20	
Duplicate (W4K2200-DUP1)	Source: 4K21096-09		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	

Notes and Definitions

Item	Definition
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics / Weck Laboratories, inc.

COC 1 of 3

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
Haley & Aldrich, Inc.
3187 Red Hill Avenue | Suite 155
Costa Mesa, CA 92626
T: 714.371.1828
C: 714.709.3072
www.haleyaldrich.com

24727
AS74673/4K22003

SAMPLE I.D.	DATE	TIME	MATRIX (AQ=Water)	CONTAINERS #	Preservative	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved gases (Ethene, Ethane, Methane) by RSK175	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
QC12-112124	11/21/24	0700	AQ	2	HCL	Vox	X	X	X		V.V.		VOCs only			4K22003-01
MW-22-112124	11/21/24	0758		7	HCL Ascorbic Acid/NaOH	VOA/AG	X	X	X							02
MW-41-112124	11/21/24	0901		7			X	X	X							03
MW-24-112124	11/21/24	0958		10			X	X	X	X						04
MW-31B-112124	11/21/24	1048		7			X	X	X		X					05
MW-31-112124	11/21/24	1139		7			X	X	X							06
MW-32-112124	11/21/24	1306		7			X	X	X							07
MW-27-112124	11/21/24	1339		7			X	X	X							08
MW-28-112124	11/21/24	1419		10			X	X	X	X						09
QC14-112124	11/21/24	1350	✓	7	✓	✓	X	X	X	X	DG					10

REVIEWED
Date 11/25/24 Time 1530
TAT 4 Days Sign

SAMPLE INTEGRITY
INTACT (Y) N TEMP 3.4°C

SAMPLING COMPLETED	DATE	TIME
	11/21/24	1500

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1700		11/22/24	1200
	14:25		11/22/24	1425

SHIPPED VIA

TIME SENT

COOLER #

BLAINE
TECH SERVICES, INC.

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SAN JOSE, CALIFORNIA 95112-1105
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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics / Weck Laboratories, inc.

COC 2 of 3

Send Reports to:
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Project Manager
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29728

AS74673/4K22003

SAMPLE I.D.	DATE	TIME	MATRIX AQ=Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
EW-05-112124	11/21/24	0810	AQ	7	HCl + Amber	VOA not preserv	X	X	X							4K22003-11
MW-15-112124		0900		7			X	X	X							-12
MW-18R-112124		0942		7			X	X	X							-13
MW-33B-112124		1029		7			X	X	X							-14
~~QC13-112124~~		~~1034~~		7			X	X	X		MW	PCBs				-15
MW-20-112124		1127		7			X	X	X							-15 - 16
MW-64A-112124		1305		7			X	X	X							-16 - 17
QC15-112124		1310		7			X	X	X							-17 - 18
MW-64B-112124		1405		7			X	X	X							-18 - 19
QC16-112124		1420		7			X	X	X							-34 NUVE 1425

REVIEWED
Date 11/25/24 Time 0800
TAT A1 Days Sign:

SAMPLING COMPLETED	DATE 11/21/24	TIME 1500	SAMPLING PERFORMED BY DC	RESULTS NEEDED NO LATER THAN	Standard

RELEASED BY		TIME 1210	RECEIVED BY	DATE 11/22/24	TIME 1200
RELEASED BY		TIME 1425	RECEIVED BY	DATE 11/22/24	TIME 1425
RELEASED BY		TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA		TIME SENT	COOLER #		

BLAINE
TECH SERVICES, INC.

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CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics /
Weck Laboratories, inc.

COC 3 of 3

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

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29729
AS74673/41122003

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	CONTAINERS #	Preservative	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-63-112124	11/21/24	1455	AQ	7	HCl	VOA	X	X	X							41122003-20
						AG										
																24NOV22 1425

RECEIVED
Date 11/22/24 Time 0900
TAT 4 Days Sign:

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	11/21/24	1500	DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	12:00		11/22/24	12:00
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	14:25		11/22/24	14:25
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	TIME SENT	COOLER #

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum GW - South Gate / 130072-025

A874674 / 4K25018

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/25/24 16:33 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
MW-61B-112224	4K25018-01	Water	10	11/22/24 09:01	11/25/24 16:33
MW-57A-112224	4K25018-02	Water	10	11/22/24 10:47	11/25/24 16:33
MW-58-112224	4K25018-03	Water	10	11/22/24 12:37	11/25/24 16:33
QC21-112224	4K25018-04	Water	10	11/22/24 12:55	11/25/24 16:33
QC22-112224	4K25018-05	Water	10	11/22/24 13:10	11/25/24 16:33
MW-01-112224	4K25018-06	Water	10	11/22/24 13:57	11/25/24 16:33
QC17-112224	4K25018-07	Water	10	11/25/24 07:00	11/25/24 16:33
QC18-112224	4K25018-08	Water	10	11/22/24 09:15	11/25/24 16:33
QC20-112224	4K25018-09	Water	10	11/22/24 14:00	11/25/24 16:33
MW-26-112224	4K25018-10	Water	10	11/22/24 08:37	11/25/24 16:33
MW-25B-112224	4K25018-11	Water	10	11/22/24 10:08	11/25/24 16:33
MW-29-112224	4K25018-12	Water	10	11/22/24 10:51	11/25/24 16:33
MW-30-112224	4K25018-13	Water	10	11/22/24 11:42	11/25/24 16:33
MW-21-112224	4K25018-14	Water	10	11/22/24 14:23	11/25/24 16:33
8270CM 1,4-Dioxane Only					
MW-61B-112224	4K25018-01	Water	10	11/22/24 09:01	11/25/24 16:33
MW-57A-112224	4K25018-02	Water	10	11/22/24 10:47	11/25/24 16:33
MW-58-112224	4K25018-03	Water	10	11/22/24 12:37	11/25/24 16:33

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
QC21-112224	4K25018-04	Water	10	11/22/24 12:55	11/25/24 16:33
QC22-112224	4K25018-05	Water	10	11/22/24 13:10	11/25/24 16:33
MW-01-112224	4K25018-06	Water	10	11/22/24 13:57	11/25/24 16:33
QC18-112224	4K25018-08	Water	10	11/22/24 09:15	11/25/24 16:33
QC20-112224	4K25018-09	Water	10	11/22/24 14:00	11/25/24 16:33
MW-26-112224	4K25018-10	Water	10	11/22/24 08:37	11/25/24 16:33
MW-25B-112224	4K25018-11	Water	10	11/22/24 10:08	11/25/24 16:33
MW-29-112224	4K25018-12	Water	10	11/22/24 10:51	11/25/24 16:33
MW-30-112224	4K25018-13	Water	10	11/22/24 11:42	11/25/24 16:33
MW-21-112224	4K25018-14	Water	10	11/22/24 14:23	11/25/24 16:33
Methane, Ethane, Ethene Dissolved					
MW-29-112224	4K25018-12	Water	10	11/22/24 10:51	11/25/24 16:33
MW-30-112224	4K25018-13	Water	10	11/22/24 11:42	11/25/24 16:33

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/13/24	12/13/24	12/13/24	12/13/24		
AA ID No:	4K25018-01	4K25018-02	4K25018-03	4K25018-04		
Client ID No:	MW-61B-112224	MW-57A-112224	MW-58-112224	QC21-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**2.4**	<0.50	**9.0**	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	86.0%	107%	92.4%	95.6%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/13/24	12/13/24	12/13/24	12/13/24		
AA ID No:	4K25018-05	4K25018-06	4K25018-08	4K25018-09		
Client ID No:	QC22-112224	MW-01-112224	QC18-112224	QC20-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	<0.50	**2.2**	<0.50	<0.50	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	98.1%	114%	104%	92.2%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/13/24	12/13/24	12/13/24	12/13/24		
AA ID No:	4K25018-10	4K25018-11	4K25018-12	4K25018-13		
Client ID No:	MW-26-112224	MW-25B-112224	MW-29-112224	MW-30-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**2.0**	<0.50	<0.50	**9.8**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	55.0%	86.2%	92.0%	86.5%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/22/24		
Date Prepared:	11/27/24		
Date Analyzed:	12/13/24		
AA ID No:	4K25018-14		
Client ID No:	MW-21-112224		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)			
1,4-Dioxane	**5.0**	0.50	1.0

Surrogates		**%REC Limits**
1,4-Dioxane-d8	92.5%	50-150

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-01	4K25018-02	4K25018-03	4K25018-04		
Client ID No:	MW-61B-112224	MW-57A-112224	MW-58-112224	QC21-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	**5.4**	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.60 [1]**	**0.29 J [1]**	<0.20	**0.30 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-01	4K25018-02	4K25018-03	4K25018-04		
Client ID No:	MW-61B-112224	MW-57A-112224	MW-58-112224	QC21-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**3.6**	<0.20	<0.20	<0.20	0.20	0.50
cis-1,2-Dichloroethylene	**0.31 J**	**0.55**	**5.4**	<0.30	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	**0.45 J**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**0.42 J**	<0.30	<0.30	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-01	4K25018-02	4K25018-03	4K25018-04		
Client ID No:	MW-61B-112224	MW-57A-112224	MW-58-112224	QC21-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	**18**	**0.61**	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	98.4%	96.6%	96.5%	95.5%		80-129
Dibromofluoromethane	97.4%	93.3%	96.4%	96.6%		68-137
Toluene-d8	98.8%	98.0%	98.1%	96.5%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/25/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-05	4K25018-06	4K25018-07	4K25018-08		
Client ID No:	QC22-112224	MW-01-112224	QC17-112224	QC18-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	**19 J**	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	**0.52 [1]**	**1.4 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/25/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-05	4K25018-06	4K25018-07	4K25018-08		
Client ID No:	QC22-112224	MW-01-112224	QC17-112224	QC18-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	<0.20	<0.20	<0.20	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/25/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/05/24	12/05/24		
AA ID No:	4K25018-05	4K25018-06	4K25018-07	4K25018-08		
Client ID No:	QC22-112224	MW-01-112224	QC17-112224	QC18-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	98.1%	98.3%	97.0%	101%		80-129
Dibromofluoromethane	98.8%	97.1%	97.8%	102%		68-137
Toluene-d8	98.1%	97.3%	98.5%	98.1%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/06/24	12/06/24		
AA ID No:	4K25018-09	4K25018-10	4K25018-11	4K25018-12		
Client ID No:	QC20-112224	MW-26-112224	MW-25B-112224	MW-29-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	**12 J**	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	**1.4**	**0.86**	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**1.4 [1]**	**0.67 [1]**	**3.2 [1]**	**2.6 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/06/24	12/06/24		
AA ID No:	4K25018-09	4K25018-10	4K25018-11	4K25018-12		
Client ID No:	QC20-112224	MW-26-112224	MW-25B-112224	MW-29-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	<0.20	<0.20	**2.1**	**2.5**	0.20	0.50
cis-1,2-Dichloroethylene	<0.30	<0.30	**28**	**4.4**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	<0.30	**7.9**	**7.4**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	**0.21 J**	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/05/24	12/05/24	12/05/24		
Date Analyzed:	12/05/24	12/05/24	12/06/24	12/06/24		
AA ID No:	4K25018-09	4K25018-10	4K25018-11	4K25018-12		
Client ID No:	QC20-112224	MW-26-112224	MW-25B-112224	MW-29-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	<0.40	**0.71**	**24**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	99.9%	99.7%	101%	99.3%		80-129
Dibromofluoromethane	101%	101%	99.0%	96.2%		68-137
Toluene-d8	99.7%	101%	101%	102%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24		
AA ID No:	4K25018-13	4K25018-14		
Client ID No:	MW-30-112224	MW-21-112224		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	<0.40	**0.76**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.29 J [1]**	**0.70 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24		
AA ID No:	4K25018-13	4K25018-14		
Client ID No:	MW-30-112224	MW-21-112224		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	**1.6**	**0.22 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**3.4**	**0.39 J**	0.20	0.50
cis-1,2-Dichloroethylene	**1.8**	**10**	0.30	0.50
1,1-Dichloroethylene	<0.40	**0.44 J**	0.40	0.50
trans-1,2-Dichloroethylene	**2.9**	<0.30	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/22/24	11/22/24		
Date Prepared:	12/05/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24		
AA ID No:	4K25018-13	4K25018-14		
Client ID No:	MW-30-112224	MW-21-112224		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**59**	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	99.3%	98.6%		80-129
Dibromofluoromethane	98.4%	93.9%		68-137
Toluene-d8	100%	98.6%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	Dissolved Gases by RSK-175M	**Units:**	ug/L

Date Sampled:	11/22/24	11/22/24		
Date Prepared:	11/26/24	11/26/24		
Date Analyzed:	11/26/24	11/26/24		
AA ID No:	4K25018-12	4K25018-13		
Client ID No:	MW-29-112224	MW-30-112224		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
Methane, Ethane, Ethene Dissolved (RSK-175M)				
Methane	**2.5**	**60**	2.0	2.0
Ethane	<2.0	<2.0	2.0	2.0
Ethylene	<2.0	<2.0	2.0	2.0

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2702 - EPA 3510C_MS										
Blank (B4K2702-BLK1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*419*		*ug/L*	*400*		*105*	*50-150*			
LCS (B4K2702-BS1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	**30.6**	0.50	ug/L	40.0		76.5	75-125			
Surrogate: 1,4-Dioxane-d8	*365*		*ug/L*	*400*		*91.2*	*50-150*			
LCS Dup (B4K2702-BSD1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	**31.8**	0.50	ug/L	40.0		79.5	75-125	3.85	30	
Surrogate: 1,4-Dioxane-d8	*547*		*ug/L*	*400*		*137*	*50-150*			
Matrix Spike (B4K2702-MS1)			**Source: 4K25018-06**	Prepared: 11/27/24 Analyzed: 12/14/24						
1,4-Dioxane	**40.6**	0.50	ug/L	40.0	2.20	96.0	70-130			
Surrogate: 1,4-Dioxane-d8	*180*		*ug/L*	*200*		*90.2*	*50-150*			
Matrix Spike Dup (B4K2702-MSD1)			**Source: 4K25018-06**	Prepared: 11/27/24 Analyzed: 12/14/24						
1,4-Dioxane	**45.2**	0.50	ug/L	40.0	2.20	108	70-130	10.7	30	
Surrogate: 1,4-Dioxane-d8	*189*		*ug/L*	*200*		*94.5*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1)				Prepared & Analyzed: 12/05/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1) Continued				Prepared & Analyzed: 12/05/24						
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Blank (B4L0520-BLK1) Continued				Prepared & Analyzed: 12/05/24						
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*47.6*		*ug/L*	*50.0*		*95.2*	*80-129*			
Surrogate: Dibromofluoromethane	*45.6*		*ug/L*	*50.0*		*91.2*	*68-137*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.8*	*83-134*			
LCS (B4L0520-BS1)				Prepared & Analyzed: 12/05/24						
Acetone	**19.6**	7.7	ug/L	20.0		97.8	27-123			J
Benzene	**16.8**	0.40	ug/L	20.0		83.9	60-134			
Bromobenzene	**18.4**	0.40	ug/L	20.0		91.9	70-130			
Bromochloromethane	**16.7**	0.20	ug/L	20.0		83.7	78-121			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
Bromodichloromethane	**17.3**	0.40	ug/L	20.0		86.6	74-135			
Bromoform	**21.5**	0.40	ug/L	20.0		108	68-132			
Bromomethane	**17.8**	0.30	ug/L	20.0		89.2	58-142			
2-Butanone (MEK)	**17.3**	8.6	ug/L	20.0		86.6	62-138			J
tert-Butylbenzene	**18.4**	0.20	ug/L	20.0		91.9	70-130			
n-Butylbenzene	**18.5**	0.20	ug/L	20.0		92.5	70-130			
sec-Butylbenzene	**18.1**	0.20	ug/L	20.0		90.6	84-142			
Carbon Disulfide	**17.9**	0.20	ug/L	20.0		89.4	17-177			
Carbon Tetrachloride	**17.2**	0.30	ug/L	20.0		86.2	66-155			
Chlorobenzene	**18.5**	0.40	ug/L	20.0		92.6	70-130			
Chloroethane	**18.2**	0.40	ug/L	20.0		91.0	45-166			
Chloroform	**16.6**	0.30	ug/L	20.0		83.0	71-131			
Chloromethane	**15.6**	0.40	ug/L	20.0		78.1	48-152			
4-Chlorotoluene	**17.6**	0.20	ug/L	20.0		87.9	70-130			
2-Chlorotoluene	**17.2**	0.20	ug/L	20.0		86.2	70-130			
1,2-Dibromo-3-chloropropane	**20.1**	0.40	ug/L	20.0		100	53-145			
Dibromochloromethane	**20.0**	0.40	ug/L	20.0		100	72-133			
1,2-Dibromoethane (EDB)	**18.7**	0.40	ug/L	20.0		93.4	79-120			
Dibromomethane	**16.7**	0.40	ug/L	20.0		83.4	68-124			
1,3-Dichlorobenzene	**17.8**	0.40	ug/L	20.0		88.9	70-130			
1,4-Dichlorobenzene	**17.9**	0.30	ug/L	20.0		89.6	70-130			
1,2-Dichlorobenzene	**18.3**	0.30	ug/L	20.0		91.5	70-130			
Dichlorodifluoromethane (R12)	**11.2**	0.40	ug/L	20.0		55.9	16-148			
1,1-Dichloroethane	**15.8**	0.20	ug/L	20.0		79.2	67-120			
1,2-Dichloroethane (EDC)	**16.2**	0.20	ug/L	20.0		81.2	57-156			
cis-1,2-Dichloroethylene	**16.6**	0.30	ug/L	20.0		83.0	70-124			
1,1-Dichloroethylene	**16.4**	0.40	ug/L	20.0		81.9	50-149			
trans-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.4	66-126			
1,3-Dichloropropane	**18.0**	0.40	ug/L	20.0		90.2	79-113			
1,2-Dichloropropane	**16.2**	0.30	ug/L	20.0		81.0	53-139			
2,2-Dichloropropane	**16.3**	0.30	ug/L	20.0		81.4	44-162			
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0		96.0	76-121			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
1,1-Dichloropropylene	**16.4**	0.30	ug/L	20.0		82.2	84-124			QL-02
cis-1,3-Dichloropropylene	**17.5**	0.40	ug/L	20.0		87.6	67-127			
Ethylbenzene	**18.5**	0.30	ug/L	20.0		92.4	86-124			
Hexachlorobutadiene	**18.4**	0.50	ug/L	20.0		91.8	76-140			
2-Hexanone (MBK)	**18.6**	8.4	ug/L	20.0		93.2	52-123			J
Isopropylbenzene	**18.1**	0.30	ug/L	20.0		90.3	70-130			
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0		94.8	70-130			
Methyl-tert-Butyl Ether (MTBE)	**34.7**	1.2	ug/L	40.0		86.8	58-144			
Methylene Chloride	**15.1**	4.4	ug/L	20.0		75.6	50-135			
4-Methyl-2-pentanone (MIBK)	**18.4**	9.8	ug/L	20.0		92.2	49-139			J
Naphthalene	**19.9**	0.40	ug/L	20.0		99.4	74-128			
n-Propylbenzene	**18.5**	0.20	ug/L	20.0		92.3	70-130			
Styrene	**19.1**	0.20	ug/L	20.0		95.3	84-123			
1,1,1,2-Tetrachloroethane	**19.1**	0.30	ug/L	20.0		95.6	70-130			
1,1,2,2-Tetrachloroethane	**19.2**	0.40	ug/L	20.0		95.8	58-126			
Tetrachloroethylene (PCE)	**18.2**	0.50	ug/L	20.0		90.8	70-130			
Toluene	**18.1**	0.20	ug/L	20.0		90.4	83-118			
1,2,4-Trichlorobenzene	**18.0**	0.30	ug/L	20.0		89.8	84-128			
1,2,3-Trichlorobenzene	**17.4**	0.50	ug/L	20.0		87.1	77-134			
1,1,2-Trichloroethane	**18.2**	0.30	ug/L	20.0		90.8	75-115			
1,1,1-Trichloroethane	**16.8**	0.30	ug/L	20.0		84.1	66-158			
Trichloroethylene (TCE)	**16.2**	0.30	ug/L	20.0		81.0	82-128			QL-02
Trichlorofluoromethane (R11)	**18.8**	0.40	ug/L	20.0		94.2	65-137			
1,2,3-Trichloropropane	**18.9**	0.20	ug/L	20.0		94.6	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.0**	0.30	ug/L	20.0		75.2	62-130			
1,2,4-Trimethylbenzene	**17.8**	0.30	ug/L	20.0		89.0	70-130			
1,3,5-Trimethylbenzene	**17.9**	0.20	ug/L	20.0		89.3	70-130			
Vinyl chloride	**17.9**	0.40	ug/L	20.0		89.4	51-151			
o-Xylene	**18.0**	0.30	ug/L	20.0		89.8	70-130			
m,p-Xylenes	**35.9**	0.60	ug/L	40.0		89.8	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS (B4L0520-BS1) Continued				Prepared & Analyzed: 12/05/24						
Surrogate: 4-Bromofluorobenzene	*45.9*		*ug/L*	*50.0*		*91.7*	*80-129*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*89.9*	*68-137*			
Surrogate: Toluene-d8	*47.4*		*ug/L*	*50.0*		*94.9*	*83-134*			
LCS Dup (B4L0520-BSD1)				Prepared & Analyzed: 12/05/24						
Acetone	**22.7**	7.7	ug/L	20.0		114	27-123	15.0	30	J
Benzene	**18.5**	0.40	ug/L	20.0		92.6	60-134	9.80	30	
Bromobenzene	**18.7**	0.40	ug/L	20.0		93.6	70-130	1.83	30	
Bromochloromethane	**17.8**	0.20	ug/L	20.0		89.2	78-121	6.42	30	
Bromodichloromethane	**18.8**	0.40	ug/L	20.0		94.0	74-135	8.31	30	
Bromoform	**21.0**	0.40	ug/L	20.0		105	68-132	2.21	30	
Bromomethane	**19.4**	0.30	ug/L	20.0		96.8	58-142	8.18	30	
2-Butanone (MEK)	**17.9**	8.6	ug/L	20.0		89.6	62-138	3.35	30	J
tert-Butylbenzene	**19.2**	0.20	ug/L	20.0		96.1	70-130	4.47	30	
n-Butylbenzene	**20.0**	0.20	ug/L	20.0		99.8	70-130	7.64	30	
sec-Butylbenzene	**19.4**	0.20	ug/L	20.0		96.8	84-142	6.56	30	
Carbon Disulfide	**18.9**	0.20	ug/L	20.0		94.7	17-177	5.81	30	
Carbon Tetrachloride	**18.3**	0.30	ug/L	20.0		91.6	66-155	6.02	30	
Chlorobenzene	**18.7**	0.40	ug/L	20.0		93.4	70-130	0.807	30	
Chloroethane	**20.9**	0.40	ug/L	20.0		105	45-166	13.9	30	
Chloroform	**18.2**	0.30	ug/L	20.0		91.2	71-131	9.35	30	
Chloromethane	**16.2**	0.40	ug/L	20.0		81.1	48-152	3.77	30	
4-Chlorotoluene	**18.6**	0.20	ug/L	20.0		93.0	70-130	5.58	30	
2-Chlorotoluene	**18.2**	0.20	ug/L	20.0		90.8	70-130	5.20	30	
1,2-Dibromo-3-chloropropane	**20.3**	0.40	ug/L	20.0		101	53-145	1.09	30	
Dibromochloromethane	**19.6**	0.40	ug/L	20.0		97.9	72-133	2.12	30	
1,2-Dibromoethane (EDB)	**19.3**	0.40	ug/L	20.0		96.6	79-120	3.32	30	
Dibromomethane	**18.0**	0.40	ug/L	20.0		90.2	68-124	7.95	30	
1,3-Dichlorobenzene	**18.3**	0.40	ug/L	20.0		91.4	70-130	2.77	30	
1,4-Dichlorobenzene	**18.4**	0.30	ug/L	20.0		92.2	70-130	2.92	30	
1,2-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.2	70-130	3.96	30	
Dichlorodifluoromethane (R12)	**12.4**	0.40	ug/L	20.0		61.8	16-148	10.1	30	
1,1-Dichloroethane	**17.9**	0.20	ug/L	20.0		89.4	67-120	12.0	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS Dup (B4L0520-BSD1) Continued				Prepared & Analyzed: 12/05/24						
1,2-Dichloroethane (EDC)	**18.1**	0.20	ug/L	20.0		90.7	57-156	11.1	30	
cis-1,2-Dichloroethylene	**18.2**	0.30	ug/L	20.0		90.8	70-124	9.03	30	
1,1-Dichloroethylene	**17.5**	0.40	ug/L	20.0		87.6	50-149	6.67	30	
trans-1,2-Dichloroethylene	**18.3**	0.30	ug/L	20.0		91.4	66-126	8.02	30	
1,3-Dichloropropane	**18.7**	0.40	ug/L	20.0		93.4	79-113	3.54	30	
1,2-Dichloropropane	**18.3**	0.30	ug/L	20.0		91.4	53-139	12.1	30	
2,2-Dichloropropane	**16.8**	0.30	ug/L	20.0		84.2	44-162	3.32	30	
trans-1,3-Dichloropropylene	**19.2**	0.30	ug/L	20.0		96.2	76-121	0.260	30	
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.1	84-124	9.11	30	
cis-1,3-Dichloropropylene	**18.6**	0.40	ug/L	20.0		93.2	67-127	6.20	30	
Ethylbenzene	**19.4**	0.30	ug/L	20.0		96.8	86-124	4.76	30	
Hexachlorobutadiene	**18.2**	0.50	ug/L	20.0		91.0	76-140	0.820	30	
2-Hexanone (MBK)	**17.8**	8.4	ug/L	20.0		88.8	52-123	4.78	30	J
Isopropylbenzene	**19.3**	0.30	ug/L	20.0		96.6	70-130	6.74	30	
4-Isopropyltoluene	**19.6**	0.30	ug/L	20.0		98.0	70-130	3.32	30	
Methyl-tert-Butyl Ether (MTBE)	**38.3**	1.2	ug/L	40.0		95.7	58-144	9.78	30	
Methylene Chloride	**16.9**	4.4	ug/L	20.0		84.4	50-135	11.0	30	
4-Methyl-2-pentanone (MIBK)	**18.8**	9.8	ug/L	20.0		94.0	49-139	2.04	30	J
Naphthalene	**21.3**	0.40	ug/L	20.0		107	74-128	6.99	30	
n-Propylbenzene	**19.8**	0.20	ug/L	20.0		99.0	70-130	7.06	30	
Styrene	**19.1**	0.20	ug/L	20.0		95.6	84-123	0.367	30	
1,1,1,2-Tetrachloroethane	**19.2**	0.30	ug/L	20.0		96.0	70-130	0.417	30	
1,1,2,2-Tetrachloroethane	**19.6**	0.40	ug/L	20.0		98.0	58-126	2.32	30	
Tetrachloroethylene (PCE)	**18.4**	0.50	ug/L	20.0		92.2	70-130	1.53	30	
Toluene	**18.5**	0.20	ug/L	20.0		92.7	83-118	2.51	30	
1,2,4-Trichlorobenzene	**18.3**	0.30	ug/L	20.0		91.7	84-128	2.04	30	
1,2,3-Trichlorobenzene	**18.2**	0.50	ug/L	20.0		90.8	77-134	4.21	30	
1,1,2-Trichloroethane	**18.8**	0.30	ug/L	20.0		93.8	75-115	3.31	30	
1,1,1-Trichloroethane	**18.7**	0.30	ug/L	20.0		93.4	66-158	10.5	30	
Trichloroethylene (TCE)	**17.8**	0.30	ug/L	20.0		88.8	82-128	9.19	30	
Trichlorofluoromethane (R11)	**20.5**	0.40	ug/L	20.0		103	65-137	8.49	30	
1,2,3-Trichloropropane	**18.8**	0.20	ug/L	20.0		93.9	68-123	0.743	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
LCS Dup (B4L0520-BSD1) Continued				Prepared & Analyzed: 12/05/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.5**	0.30	ug/L	20.0		82.6	62-130	9.38	30	
1,2,4-Trimethylbenzene	**19.2**	0.30	ug/L	20.0		95.8	70-130	7.30	30	
1,3,5-Trimethylbenzene	**19.0**	0.20	ug/L	20.0		95.0	70-130	6.24	30	
Vinyl chloride	**20.0**	0.40	ug/L	20.0		100	51-151	11.5	30	
o-Xylene	**18.4**	0.30	ug/L	20.0		92.0	70-130	2.36	30	
m,p-Xylenes	**37.0**	0.60	ug/L	40.0		92.5	70-130	2.94	30	
Surrogate: 4-Bromofluorobenzene	*48.4*		*ug/L*	*50.0*		*96.8*	*80-129*			
Surrogate: Dibromofluoromethane	*46.5*		*ug/L*	*50.0*		*93.0*	*68-137*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*97.6*	*83-134*			
Matrix Spike (B4L0520-MS1)		**Source: 4K25018-06**		Prepared & Analyzed: 12/05/24						
Acetone	**24.5**	7.7	ug/L	20.0	<50	122	11-169			J
Benzene	**20.6**	0.40	ug/L	20.0	<0.50	103	56-135			
Bromobenzene	**20.6**	0.40	ug/L	20.0	<0.50	103	70-130			
Bromochloromethane	**19.7**	0.20	ug/L	20.0	<0.50	98.6	74-125			
Bromodichloromethane	**20.6**	0.40	ug/L	20.0	<0.50	103	68-144			
Bromoform	**25.0**	0.40	ug/L	20.0	<0.50	125	68-151			
Bromomethane	**18.4**	0.30	ug/L	20.0	<0.50	92.2	54-142			
2-Butanone (MEK)	**19.2**	8.6	ug/L	20.0	<20	95.8	62-145			J
tert-Butylbenzene	**21.0**	0.20	ug/L	20.0	<0.50	105	70-130			
n-Butylbenzene	**21.9**	0.20	ug/L	20.0	<0.50	109	70-130			
sec-Butylbenzene	**21.6**	0.20	ug/L	20.0	<0.50	108	84-145			
Carbon Disulfide	**22.1**	0.20	ug/L	20.0	<0.50	110	28-151			
Carbon Tetrachloride	**20.8**	0.30	ug/L	20.0	<0.50	104	58-164			
Chlorobenzene	**21.0**	0.40	ug/L	20.0	<0.50	105	70-130			
Chloroethane	**20.4**	0.40	ug/L	20.0	<0.50	102	42-164			
Chloroform	**19.5**	0.30	ug/L	20.0	<0.50	97.4	65-138			
Chloromethane	**17.3**	0.40	ug/L	20.0	<0.50	86.6	50-152			
4-Chlorotoluene	**20.7**	0.20	ug/L	20.0	<0.50	103	70-130			
2-Chlorotoluene	**20.1**	0.20	ug/L	20.0	<0.50	101	70-130			
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0	<1.0	121	53-161			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike (B4L0520-MS1) Continued	**Source: 4K25018-06**	Prepared & Analyzed: 12/05/24								
Dibromochloromethane	**22.6**	0.40	ug/L	20.0	<0.50	113	70-130			
1,2-Dibromoethane (EDB)	**21.6**	0.40	ug/L	20.0	<0.50	108	76-130			
Dibromomethane	**20.2**	0.40	ug/L	20.0	<0.50	101	62-135			
1,3-Dichlorobenzene	**20.3**	0.40	ug/L	20.0	<0.50	102	70-130			
1,4-Dichlorobenzene	**20.4**	0.30	ug/L	20.0	<0.50	102	70-130			
1,2-Dichlorobenzene	**20.9**	0.30	ug/L	20.0	<0.50	104	70-130			
Dichlorodifluoromethane (R12)	**12.8**	0.40	ug/L	20.0	<0.50	64.2	17-153			
1,1-Dichloroethane	**19.8**	0.20	ug/L	20.0	<0.50	98.8	55-131			
1,2-Dichloroethane (EDC)	**20.1**	0.20	ug/L	20.0	<0.50	100	52-168			
cis-1,2-Dichloroethylene	**20.6**	0.30	ug/L	20.0	<0.50	103	70-130			
1,1-Dichloroethylene	**20.0**	0.40	ug/L	20.0	<0.50	99.8	51-140			
trans-1,2-Dichloroethylene	**20.6**	0.30	ug/L	20.0	<0.50	103	59-127			
1,3-Dichloropropane	**20.7**	0.40	ug/L	20.0	<0.50	104	80-121			
1,2-Dichloropropane	**19.9**	0.30	ug/L	20.0	<0.50	99.4	52-142			
2,2-Dichloropropane	**19.3**	0.30	ug/L	20.0	<0.50	96.5	36-168			
trans-1,3-Dichloropropylene	**21.7**	0.30	ug/L	20.0	<0.50	108	78-130			
1,1-Dichloropropylene	**20.4**	0.30	ug/L	20.0	<0.50	102	76-132			
cis-1,3-Dichloropropylene	**20.4**	0.40	ug/L	20.0	<0.50	102	66-130			
Ethylbenzene	**21.5**	0.30	ug/L	20.0	<0.50	108	86-128			
Hexachlorobutadiene	**19.7**	0.50	ug/L	20.0	<1.0	98.7	70-130			
2-Hexanone (MBK)	**21.7**	8.4	ug/L	20.0	<20	108	52-141			
Isopropylbenzene	**21.3**	0.30	ug/L	20.0	<0.50	106	70-130			
4-Isopropyltoluene	**21.9**	0.30	ug/L	20.0	<1.0	109	83-149			
Methyl-tert-Butyl Ether (MTBE)	**41.8**	1.2	ug/L	40.0	<2.0	104	56-150			
Methylene Chloride	**17.8**	4.4	ug/L	20.0	<5.0	88.8	70-130			
4-Methyl-2-pentanone (MIBK)	**21.7**	9.8	ug/L	20.0	<20	109	60-148			
Naphthalene	**22.1**	0.40	ug/L	20.0	<2.0	111	70-130			
n-Propylbenzene	**21.9**	0.20	ug/L	20.0	<0.50	109	70-130			
Styrene	**7.33**	0.20	ug/L	20.0	<0.50	36.6	65-141			QM-07
1,1,1,2-Tetrachloroethane	**21.6**	0.30	ug/L	20.0	<0.50	108	70-130			
1,1,2,2-Tetrachloroethane	**22.5**	0.40	ug/L	20.0	<0.50	113	62-134			
Tetrachloroethylene (PCE)	**20.7**	0.50	ug/L	20.0	<0.50	103	70-130			



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike (B4L0520-MS1) Continued	**Source: 4K25018-06**			Prepared & Analyzed: 12/05/24						
Toluene	**20.9**	0.20	ug/L	20.0	<0.50	104	81-123			
1,2,4-Trichlorobenzene	**20.0**	0.30	ug/L	20.0	<0.50	99.8	80-137			
1,2,3-Trichlorobenzene	**18.9**	0.50	ug/L	20.0	<0.50	94.6	73-144			
1,1,2-Trichloroethane	**21.1**	0.30	ug/L	20.0	<0.50	105	76-122			
1,1,1-Trichloroethane	**20.5**	0.30	ug/L	20.0	<0.50	103	62-164			
Trichloroethylene (TCE)	**20.3**	0.30	ug/L	20.0	<0.50	101	72-136			
Trichlorofluoromethane (R11)	**22.1**	0.40	ug/L	20.0	<0.50	110	59-144			
1,2,3-Trichloropropane	**21.3**	0.20	ug/L	20.0	<0.50	107	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.2**	0.30	ug/L	20.0	<0.50	86.2	62-126			
1,2,4-Trimethylbenzene	**21.1**	0.30	ug/L	20.0	<0.50	106	89-134			
1,3,5-Trimethylbenzene	**21.1**	0.20	ug/L	20.0	<0.50	105	70-130			
Vinyl chloride	**20.9**	0.40	ug/L	20.0	<0.50	105	54-150			
o-Xylene	**20.8**	0.30	ug/L	20.0	<0.50	104	70-130			
m,p-Xylenes	**42.1**	0.60	ug/L	40.0	<1.0	105	70-130			
Surrogate: 4-Bromofluorobenzene	*47.2*		*ug/L*	*50.0*		*94.4*	*80-129*			
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93.3*	*68-137*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*97.7*	*83-134*			
Matrix Spike Dup (B4L0520-MSD1)	**Source: 4K25018-06**			Prepared & Analyzed: 12/05/24						
Acetone	**23.5**	7.7	ug/L	20.0	<50	118	11-169	3.96	30	J
Benzene	**18.5**	0.40	ug/L	20.0	<0.50	92.4	56-135	10.9	30	
Bromobenzene	**19.3**	0.40	ug/L	20.0	<0.50	96.7	70-130	6.16	30	
Bromochloromethane	**18.5**	0.20	ug/L	20.0	<0.50	92.4	74-125	6.39	30	
Bromodichloromethane	**18.9**	0.40	ug/L	20.0	<0.50	94.6	68-144	8.45	30	
Bromoform	**24.0**	0.40	ug/L	20.0	<0.50	120	68-151	3.88	30	
Bromomethane	**18.5**	0.30	ug/L	20.0	<0.50	92.7	54-142	0.487	30	
2-Butanone (MEK)	**20.3**	8.6	ug/L	20.0	<20	101	62-145	5.73	30	
tert-Butylbenzene	**19.4**	0.20	ug/L	20.0	<0.50	97.0	70-130	7.87	30	
n-Butylbenzene	**19.4**	0.20	ug/L	20.0	<0.50	97.0	70-130	11.9	30	
sec-Butylbenzene	**19.4**	0.20	ug/L	20.0	<0.50	97.0	84-145	10.8	30	
Carbon Disulfide	**19.5**	0.20	ug/L	20.0	<0.50	97.6	28-151	12.2	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike Dup (B4L0520-MSD1) Continued				**Source: 4K25018-06**	Prepared & Analyzed: 12/05/24					
Carbon Tetrachloride	**18.7**	0.30	ug/L	20.0	<0.50	93.7	58-164	10.4	30	
Chlorobenzene	**19.0**	0.40	ug/L	20.0	<0.50	95.0	70-130	10.2	30	
Chloroethane	**20.1**	0.40	ug/L	20.0	<0.50	100	42-164	1.29	30	
Chloroform	**18.0**	0.30	ug/L	20.0	<0.50	90.0	65-138	8.00	30	
Chloromethane	**15.8**	0.40	ug/L	20.0	<0.50	79.2	50-152	8.81	30	
4-Chlorotoluene	**18.8**	0.20	ug/L	20.0	<0.50	94.2	70-130	9.22	30	
2-Chlorotoluene	**18.2**	0.20	ug/L	20.0	<0.50	91.2	70-130	9.75	30	
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0	<1.0	121	53-161	0.289	30	
Dibromochloromethane	**21.1**	0.40	ug/L	20.0	<0.50	105	70-130	6.82	30	
1,2-Dibromoethane (EDB)	**20.8**	0.40	ug/L	20.0	<0.50	104	76-130	3.30	30	
Dibromomethane	**19.6**	0.40	ug/L	20.0	<0.50	98.0	62-135	2.82	30	
1,3-Dichlorobenzene	**18.9**	0.40	ug/L	20.0	<0.50	94.6	70-130	7.23	30	
1,4-Dichlorobenzene	**18.7**	0.30	ug/L	20.0	<0.50	93.6	70-130	8.74	30	
1,2-Dichlorobenzene	**19.5**	0.30	ug/L	20.0	<0.50	97.6	70-130	6.73	30	
Dichlorodifluoromethane (R12)	**12.0**	0.40	ug/L	20.0	<0.50	59.9	17-153	6.93	30	
1,1-Dichloroethane	**18.1**	0.20	ug/L	20.0	<0.50	90.7	55-131	8.55	30	
1,2-Dichloroethane (EDC)	**19.0**	0.20	ug/L	20.0	<0.50	94.8	52-168	5.64	30	
cis-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0	<0.50	90.0	70-130	13.3	30	
1,1-Dichloroethylene	**17.8**	0.40	ug/L	20.0	<0.50	89.0	51-140	11.4	30	
trans-1,2-Dichloroethylene	**18.2**	0.30	ug/L	20.0	<0.50	90.8	59-127	12.4	30	
1,3-Dichloropropane	**19.7**	0.40	ug/L	20.0	<0.50	98.7	80-121	4.75	30	
1,2-Dichloropropane	**18.3**	0.30	ug/L	20.0	<0.50	91.6	52-142	8.27	30	
2,2-Dichloropropane	**17.2**	0.30	ug/L	20.0	<0.50	85.8	36-168	11.7	30	
trans-1,3-Dichloropropylene	**20.1**	0.30	ug/L	20.0	<0.50	100	78-130	7.57	30	
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0	<0.50	90.2	76-132	12.5	30	
cis-1,3-Dichloropropylene	**19.1**	0.40	ug/L	20.0	<0.50	95.5	66-130	6.83	30	
Ethylbenzene	**19.2**	0.30	ug/L	20.0	<0.50	96.0	86-128	11.3	30	
Hexachlorobutadiene	**17.2**	0.50	ug/L	20.0	<1.0	86.2	70-130	13.5	30	
2-Hexanone (MBK)	**21.9**	8.4	ug/L	20.0	<20	109	52-141	0.826	30	
Isopropylbenzene	**19.4**	0.30	ug/L	20.0	<0.50	97.2	70-130	8.94	30	
4-Isopropyltoluene	**19.6**	0.30	ug/L	20.0	<1.0	97.8	83-149	11.1	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0520 - EPA 5030B										
Matrix Spike Dup (B4L0520-MSD1) Continued			**Source: 4K25018-06**	Prepared & Analyzed: 12/05/24						
Methyl-tert-Butyl Ether (MTBE)	**40.3**	1.2	ug/L	40.0	<2.0	101	56-150	3.61	30	
Methylene Chloride	**16.3**	4.4	ug/L	20.0	<5.0	81.4	70-130	8.70	30	
4-Methyl-2-pentanone (MIBK)	**23.8**	9.8	ug/L	20.0	<20	119	60-148	9.05	30	
Naphthalene	**23.6**	0.40	ug/L	20.0	<2.0	118	70-130	6.73	30	
n-Propylbenzene	**20.1**	0.20	ug/L	20.0	<0.50	100	70-130	8.58	30	
Styrene	**7.94**	0.20	ug/L	20.0	<0.50	39.7	65-141	7.99	30	QM-07
1,1,1,2-Tetrachloroethane	**19.9**	0.30	ug/L	20.0	<0.50	99.7	70-130	8.13	30	
1,1,2,2-Tetrachloroethane	**22.6**	0.40	ug/L	20.0	<0.50	113	62-134	0.354	30	
Tetrachloroethylene (PCE)	**18.8**	0.50	ug/L	20.0	<0.50	93.9	70-130	9.63	30	
Toluene	**18.8**	0.20	ug/L	20.0	<0.50	94.2	81-123	10.3	30	
1,2,4-Trichlorobenzene	**18.9**	0.30	ug/L	20.0	<0.50	94.4	80-137	5.56	30	
1,2,3-Trichlorobenzene	**19.1**	0.50	ug/L	20.0	<0.50	95.4	73-144	0.947	30	
1,1,2-Trichloroethane	**19.9**	0.30	ug/L	20.0	<0.50	99.4	76-122	5.81	30	
1,1,1-Trichloroethane	**18.5**	0.30	ug/L	20.0	<0.50	92.3	62-164	10.6	30	
Trichloroethylene (TCE)	**17.8**	0.30	ug/L	20.0	<0.50	89.0	72-136	13.1	30	
Trichlorofluoromethane (R11)	**21.1**	0.40	ug/L	20.0	<0.50	106	59-144	4.30	30	
1,2,3-Trichloropropane	**22.0**	0.20	ug/L	20.0	<0.50	110	69-135	2.96	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.9**	0.30	ug/L	20.0	<0.50	84.6	62-126	1.87	30	
1,2,4-Trimethylbenzene	**19.4**	0.30	ug/L	20.0	<0.50	96.9	89-134	8.55	30	
1,3,5-Trimethylbenzene	**19.2**	0.20	ug/L	20.0	<0.50	96.2	70-130	9.08	30	
Vinyl chloride	**18.9**	0.40	ug/L	20.0	<0.50	94.6	54-150	9.94	30	
o-Xylene	**18.9**	0.30	ug/L	20.0	<0.50	94.7	70-130	9.22	30	
m,p-Xylenes	**37.9**	0.60	ug/L	40.0	<1.0	94.7	70-130	10.5	30	
Surrogate: 4-Bromofluorobenzene	*48.2*		*ug/L*	*50.0*		*96.4*	*80-129*			
Surrogate: Dibromofluoromethane	*47.0*		*ug/L*	*50.0*		*94.0*	*68-137*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99.0*	*83-134*			
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1)				Prepared & Analyzed: 12/06/24						
Acetone	<7.7	7.7	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1) Continued				Prepared & Analyzed: 12/06/24						
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1) Continued				Prepared & Analyzed: 12/06/24						
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1) Continued				Prepared & Analyzed: 12/06/24						
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*49.0*		*ug/L*	*50.0*		*98.1*	*80-129*			
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96.1*	*83-134*			
LCS (B4L0605-BS1)				Prepared & Analyzed: 12/06/24						
Acetone	**24.6**	7.7	ug/L	20.0		123	27-123			J
Benzene	**19.1**	0.40	ug/L	20.0		95.6	60-134			
Bromobenzene	**19.8**	0.40	ug/L	20.0		98.8	70-130			
Bromochloromethane	**19.0**	0.20	ug/L	20.0		95.0	78-121			
Bromodichloromethane	**19.6**	0.40	ug/L	20.0		98.0	74-135			
Bromoform	**24.0**	0.40	ug/L	20.0		120	68-132			
Bromomethane	**20.6**	0.30	ug/L	20.0		103	58-142			
2-Butanone (MEK)	**20.3**	8.6	ug/L	20.0		101	62-138			
tert-Butylbenzene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
n-Butylbenzene	**20.9**	0.20	ug/L	20.0		104	70-130			
sec-Butylbenzene	**20.2**	0.20	ug/L	20.0		101	84-142			
Carbon Disulfide	**20.0**	0.20	ug/L	20.0		99.8	17-177			
Carbon Tetrachloride	**19.2**	0.30	ug/L	20.0		95.8	66-155			
Chlorobenzene	**20.0**	0.40	ug/L	20.0		99.9	70-130			
Chloroethane	**20.9**	0.40	ug/L	20.0		104	45-166			
Chloroform	**18.9**	0.30	ug/L	20.0		94.3	71-131			
Chloromethane	**17.4**	0.40	ug/L	20.0		87.0	48-152			
4-Chlorotoluene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
2-Chlorotoluene	**18.6**	0.20	ug/L	20.0		93.0	70-130			
1,2-Dibromo-3-chloropropane	**22.2**	0.40	ug/L	20.0		111	53-145			
Dibromochloromethane	**21.8**	0.40	ug/L	20.0		109	72-133			
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120			
Dibromomethane	**19.4**	0.40	ug/L	20.0		97.1	68-124			
1,3-Dichlorobenzene	**19.4**	0.40	ug/L	20.0		96.9	70-130			
1,4-Dichlorobenzene	**19.6**	0.30	ug/L	20.0		97.8	70-130			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS (B4L0605-BS1) Continued				Prepared & Analyzed: 12/06/24						
1,2-Dichlorobenzene	**20.1**	0.30	ug/L	20.0		100	70-130			
Dichlorodifluoromethane (R12)	**12.8**	0.40	ug/L	20.0		64.0	16-148			
1,1-Dichloroethane	**18.2**	0.20	ug/L	20.0		90.8	67-120			
1,2-Dichloroethane (EDC)	**19.2**	0.20	ug/L	20.0		95.9	57-156			
cis-1,2-Dichloroethylene	**18.9**	0.30	ug/L	20.0		94.3	70-124			
1,1-Dichloroethylene	**18.2**	0.40	ug/L	20.0		91.0	50-149			
trans-1,2-Dichloroethylene	**18.8**	0.30	ug/L	20.0		93.8	66-126			
1,3-Dichloropropane	**20.0**	0.40	ug/L	20.0		99.9	79-113			
1,2-Dichloropropane	**19.0**	0.30	ug/L	20.0		95.0	53-139			
2,2-Dichloropropane	**18.1**	0.30	ug/L	20.0		90.7	44-162			
trans-1,3-Dichloropropylene	**21.2**	0.30	ug/L	20.0		106	76-121			
1,1-Dichloropropylene	**18.5**	0.30	ug/L	20.0		92.4	84-124			
cis-1,3-Dichloropropylene	**20.0**	0.40	ug/L	20.0		99.8	67-127			
Ethylbenzene	**20.2**	0.30	ug/L	20.0		101	86-124			
Hexachlorobutadiene	**19.6**	0.50	ug/L	20.0		97.9	76-140			
2-Hexanone (MBK)	**21.8**	8.4	ug/L	20.0		109	52-123			
Isopropylbenzene	**19.8**	0.30	ug/L	20.0		98.8	70-130			
4-Isopropyltoluene	**20.5**	0.30	ug/L	20.0		102	70-130			
Methyl-tert-Butyl Ether (MTBE)	**41.1**	1.2	ug/L	40.0		103	58-144			
Methylene Chloride	**16.8**	4.4	ug/L	20.0		83.8	50-135			
4-Methyl-2-pentanone (MIBK)	**21.7**	9.8	ug/L	20.0		108	49-139			
Naphthalene	**22.8**	0.40	ug/L	20.0		114	74-128			
n-Propylbenzene	**20.2**	0.20	ug/L	20.0		101	70-130			
Styrene	**20.7**	0.20	ug/L	20.0		103	84-123			
1,1,1,2-Tetrachloroethane	**20.4**	0.30	ug/L	20.0		102	70-130			
1,1,2,2-Tetrachloroethane	**21.7**	0.40	ug/L	20.0		109	58-126			
Tetrachloroethylene (PCE)	**19.3**	0.50	ug/L	20.0		96.6	70-130			
Toluene	**19.4**	0.20	ug/L	20.0		97.0	83-118			
1,2,4-Trichlorobenzene	**20.1**	0.30	ug/L	20.0		101	84-128			
1,2,3-Trichlorobenzene	**19.7**	0.50	ug/L	20.0		98.6	77-134			
1,1,2-Trichloroethane	**20.6**	0.30	ug/L	20.0		103	75-115			
1,1,1-Trichloroethane	**19.1**	0.30	ug/L	20.0		95.5	66-158			



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS (B4L0605-BS1) Continued				Prepared & Analyzed: 12/06/24						
Trichloroethylene (TCE)	**18.8**	0.30	ug/L	20.0		93.8	82-128			
Trichlorofluoromethane (R11)	**22.2**	0.40	ug/L	20.0		111	65-137			
1,2,3-Trichloropropane	**21.7**	0.20	ug/L	20.0		108	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.3**	0.30	ug/L	20.0		81.4	62-130			
1,2,4-Trimethylbenzene	**19.8**	0.30	ug/L	20.0		98.8	70-130			
1,3,5-Trimethylbenzene	**19.6**	0.20	ug/L	20.0		98.2	70-130			
Vinyl chloride	**20.5**	0.40	ug/L	20.0		102	51-151			
o-Xylene	**19.1**	0.30	ug/L	20.0		95.3	70-130			
m,p-Xylenes	**39.5**	0.60	ug/L	40.0		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	*47.8*		*ug/L*	*50.0*		*95.5*	*80-129*			
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93.1*	*68-137*			
Surrogate: Toluene-d8	*48.5*		*ug/L*	*50.0*		*97.0*	*83-134*			
LCS Dup (B4L0605-BSD1)				Prepared & Analyzed: 12/06/24						
Acetone	**24.4**	7.7	ug/L	20.0		122	27-123	0.938	30	J
Benzene	**19.9**	0.40	ug/L	20.0		99.3	60-134	3.74	30	
Bromobenzene	**20.6**	0.40	ug/L	20.0		103	70-130	4.16	30	
Bromochloromethane	**20.0**	0.20	ug/L	20.0		100	78-121	5.23	30	
Bromodichloromethane	**21.5**	0.40	ug/L	20.0		107	74-135	9.15	30	
Bromoform	**24.9**	0.40	ug/L	20.0		124	68-132	3.56	30	
Bromomethane	**22.4**	0.30	ug/L	20.0		112	58-142	8.25	30	
2-Butanone (MEK)	**23.3**	8.6	ug/L	20.0		117	62-138	14.1	30	
tert-Butylbenzene	**20.6**	0.20	ug/L	20.0		103	70-130	4.88	30	
n-Butylbenzene	**21.4**	0.20	ug/L	20.0		107	70-130	2.60	30	
sec-Butylbenzene	**20.8**	0.20	ug/L	20.0		104	84-142	3.03	30	
Carbon Disulfide	**19.3**	0.20	ug/L	20.0		96.6	17-177	3.16	30	
Carbon Tetrachloride	**19.4**	0.30	ug/L	20.0		96.8	66-155	0.986	30	
Chlorobenzene	**20.4**	0.40	ug/L	20.0		102	70-130	1.93	30	
Chloroethane	**23.5**	0.40	ug/L	20.0		118	45-166	12.0	30	
Chloroform	**19.7**	0.30	ug/L	20.0		98.6	71-131	4.41	30	
Chloromethane	**18.2**	0.40	ug/L	20.0		91.2	48-152	4.60	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS Dup (B4L0605-BSD1) Continued				Prepared & Analyzed: 12/06/24						
4-Chlorotoluene	**20.6**	0.20	ug/L	20.0		103	70-130	4.73	30	
2-Chlorotoluene	**19.6**	0.20	ug/L	20.0		97.8	70-130	4.93	30	
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0		121	53-145	8.80	30	
Dibromochloromethane	**22.9**	0.40	ug/L	20.0		115	72-133	5.23	30	
1,2-Dibromoethane (EDB)	**22.4**	0.40	ug/L	20.0		112	79-120	6.27	30	
Dibromomethane	**21.3**	0.40	ug/L	20.0		106	68-124	9.09	30	
1,3-Dichlorobenzene	**20.1**	0.40	ug/L	20.0		100	70-130	3.50	30	
1,4-Dichlorobenzene	**20.1**	0.30	ug/L	20.0		101	70-130	2.72	30	
1,2-Dichlorobenzene	**21.1**	0.30	ug/L	20.0		106	70-130	5.00	30	
Dichlorodifluoromethane (R12)	**13.7**	0.40	ug/L	20.0		68.7	16-148	7.16	30	
1,1-Dichloroethane	**19.3**	0.20	ug/L	20.0		96.5	67-120	6.03	30	
1,2-Dichloroethane (EDC)	**21.0**	0.20	ug/L	20.0		105	57-156	8.96	30	
cis-1,2-Dichloroethylene	**19.2**	0.30	ug/L	20.0		95.8	70-124	1.63	30	
1,1-Dichloroethylene	**17.8**	0.40	ug/L	20.0		88.8	50-149	2.56	30	
trans-1,2-Dichloroethylene	**18.9**	0.30	ug/L	20.0		94.4	66-126	0.531	30	
1,3-Dichloropropane	**21.5**	0.40	ug/L	20.0		108	79-113	7.51	30	
1,2-Dichloropropane	**20.6**	0.30	ug/L	20.0		103	53-139	8.22	30	
2,2-Dichloropropane	**16.4**	0.30	ug/L	20.0		82.0	44-162	10.0	30	
trans-1,3-Dichloropropylene	**21.4**	0.30	ug/L	20.0		107	76-121	0.892	30	
1,1-Dichloropropylene	**18.5**	0.30	ug/L	20.0		92.3	84-124	0.0542	30	
cis-1,3-Dichloropropylene	**21.0**	0.40	ug/L	20.0		105	67-127	5.12	30	
Ethylbenzene	**20.7**	0.30	ug/L	20.0		104	86-124	2.49	30	
Hexachlorobutadiene	**19.8**	0.50	ug/L	20.0		99.1	76-140	1.22	30	
2-Hexanone (MBK)	**23.6**	8.4	ug/L	20.0		118	52-123	8.23	30	
Isopropylbenzene	**20.8**	0.30	ug/L	20.0		104	70-130	4.94	30	
4-Isopropyltoluene	**20.8**	0.30	ug/L	20.0		104	70-130	1.69	30	
Methyl-tert-Butyl Ether (MTBE)	**44.5**	1.2	ug/L	40.0		111	58-144	7.87	30	
Methylene Chloride	**20.2**	4.4	ug/L	20.0		101	50-135	18.6	30	
4-Methyl-2-pentanone (MIBK)	**24.5**	9.8	ug/L	20.0		122	49-139	12.2	30	
Naphthalene	**25.1**	0.40	ug/L	20.0		125	74-128	9.78	30	
n-Propylbenzene	**21.0**	0.20	ug/L	20.0		105	70-130	4.02	30	
Styrene	**21.4**	0.20	ug/L	20.0		107	84-123	3.42	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS Dup (B4L0605-BSD1) Continued				Prepared & Analyzed: 12/06/24						
1,1,1,2-Tetrachloroethane	**21.0**	0.30	ug/L	20.0		105	70-130	2.91	30	
1,1,2,2-Tetrachloroethane	**23.8**	0.40	ug/L	20.0		119	58-126	9.39	30	
Tetrachloroethylene (PCE)	**18.8**	0.50	ug/L	20.0		94.0	70-130	2.62	30	
Toluene	**19.7**	0.20	ug/L	20.0		98.6	83-118	1.69	30	
1,2,4-Trichlorobenzene	**20.7**	0.30	ug/L	20.0		104	84-128	2.84	30	
1,2,3-Trichlorobenzene	**21.2**	0.50	ug/L	20.0		106	77-134	7.18	30	
1,1,2-Trichloroethane	**21.8**	0.30	ug/L	20.0		109	75-115	5.51	30	
1,1,1-Trichloroethane	**19.4**	0.30	ug/L	20.0		97.0	66-158	1.61	30	
Trichloroethylene (TCE)	**19.2**	0.30	ug/L	20.0		96.1	82-128	2.37	30	
Trichlorofluoromethane (R11)	**24.7**	0.40	ug/L	20.0		124	65-137	10.6	30	
1,2,3-Trichloropropane	**23.6**	0.20	ug/L	20.0		118	68-123	8.40	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.4**	0.30	ug/L	20.0		82.0	62-130	0.673	30	
1,2,4-Trimethylbenzene	**20.4**	0.30	ug/L	20.0		102	70-130	3.33	30	
1,3,5-Trimethylbenzene	**20.4**	0.20	ug/L	20.0		102	70-130	3.70	30	
Vinyl chloride	**22.7**	0.40	ug/L	20.0		114	51-151	10.4	30	
o-Xylene	**20.1**	0.30	ug/L	20.0		101	70-130	5.51	30	
m,p-Xylenes	**40.8**	0.60	ug/L	40.0		102	70-130	3.36	30	
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/L*	*50.0*		*98.5*	*80-129*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99.2*	*68-137*			
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98.1*	*83-134*			
Matrix Spike (B4L0605-MS1)		**Source: 4K25019-07**		Prepared & Analyzed: 12/06/24						
Acetone	**22.1**	7.7	ug/L	20.0		110	11-169			J
Benzene	**21.3**	0.40	ug/L	20.0		106	56-135			
Bromobenzene	**21.0**	0.40	ug/L	20.0		105	70-130			
Bromochloromethane	**19.5**	0.20	ug/L	20.0		97.5	74-125			
Bromodichloromethane	**21.5**	0.40	ug/L	20.0		108	68-144			
Bromoform	**23.6**	0.40	ug/L	20.0		118	68-151			
Bromomethane	**20.5**	0.30	ug/L	20.0		102	54-142			
2-Butanone (MEK)	**22.8**	8.6	ug/L	20.0		114	62-145			
tert-Butylbenzene	**22.3**	0.20	ug/L	20.0		112	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike (B4L0605-MS1) Continued	**Source: 4K25019-07**			Prepared & Analyzed: 12/06/24						
n-Butylbenzene	**23.3**	0.20	ug/L	20.0		116	70-130			
sec-Butylbenzene	**22.6**	0.20	ug/L	20.0		113	84-145			
Carbon Disulfide	**22.8**	0.20	ug/L	20.0	0.400	112	28-151			
Carbon Tetrachloride	**21.2**	0.30	ug/L	20.0		106	58-164			
Chlorobenzene	**21.8**	0.40	ug/L	20.0		109	70-130			
Chloroethane	**23.0**	0.40	ug/L	20.0		115	42-164			
Chloroform	**20.5**	0.30	ug/L	20.0		102	65-138			
Chloromethane	**18.3**	0.40	ug/L	20.0		91.3	50-152			
4-Chlorotoluene	**22.1**	0.20	ug/L	20.0		111	70-130			
2-Chlorotoluene	**21.3**	0.20	ug/L	20.0		106	70-130			
1,2-Dibromo-3-chloropropane	**23.5**	0.40	ug/L	20.0		117	53-161			
Dibromochloromethane	**22.6**	0.40	ug/L	20.0		113	70-130			
1,2-Dibromoethane (EDB)	**21.5**	0.40	ug/L	20.0		107	76-130			
Dibromomethane	**19.7**	0.40	ug/L	20.0		98.4	62-135			
1,3-Dichlorobenzene	**21.2**	0.40	ug/L	20.0		106	70-130			
1,4-Dichlorobenzene	**21.3**	0.30	ug/L	20.0		106	70-130			
1,2-Dichlorobenzene	**21.9**	0.30	ug/L	20.0		109	70-130			
Dichlorodifluoromethane (R12)	**13.1**	0.40	ug/L	20.0		65.3	17-153			
1,1-Dichloroethane	**21.3**	0.20	ug/L	20.0	0.850	102	55-131			
1,2-Dichloroethane (EDC)	**22.7**	0.20	ug/L	20.0	2.07	103	52-168			
cis-1,2-Dichloroethylene	**36.9**	0.30	ug/L	20.0	17.2	98.5	70-130			
1,1-Dichloroethylene	**20.9**	0.40	ug/L	20.0		104	51-140			
trans-1,2-Dichloroethylene	**25.4**	0.30	ug/L	20.0	4.92	102	59-127			
1,3-Dichloropropane	**21.0**	0.40	ug/L	20.0		105	80-121			
1,2-Dichloropropane	**20.6**	0.30	ug/L	20.0		103	52-142			
2,2-Dichloropropane	**20.0**	0.30	ug/L	20.0		100	36-168			
trans-1,3-Dichloropropylene	**22.1**	0.30	ug/L	20.0		110	78-130			
1,1-Dichloropropylene	**21.1**	0.30	ug/L	20.0		106	76-132			
cis-1,3-Dichloropropylene	**20.9**	0.40	ug/L	20.0		105	66-130			
Ethylbenzene	**22.3**	0.30	ug/L	20.0		111	86-128			
Hexachlorobutadiene	**21.0**	0.50	ug/L	20.0		105	70-130			
2-Hexanone (MBK)	**21.5**	8.4	ug/L	20.0		108	52-141			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike (B4L0605-MS1) Continued	**Source: 4K25019-07**			Prepared & Analyzed: 12/06/24						
Isopropylbenzene	**22.7**	0.30	ug/L	20.0		114	70-130			
4-Isopropyltoluene	**22.4**	0.30	ug/L	20.0		112	83-149			
Methyl-tert-Butyl Ether (MTBE)	**41.2**	1.2	ug/L	40.0		103	56-150			
Methylene Chloride	**19.4**	4.4	ug/L	20.0		97.0	70-130			
4-Methyl-2-pentanone (MIBK)	**21.4**	9.8	ug/L	20.0		107	60-148			
Naphthalene	**22.2**	0.40	ug/L	20.0	0.520	109	70-130			
n-Propylbenzene	**23.5**	0.20	ug/L	20.0		118	70-130			
Styrene	**22.1**	0.20	ug/L	20.0		110	65-141			
1,1,1,2-Tetrachloroethane	**22.2**	0.30	ug/L	20.0		111	70-130			
1,1,2,2-Tetrachloroethane	**22.1**	0.40	ug/L	20.0		111	62-134			
Tetrachloroethylene (PCE)	**20.8**	0.50	ug/L	20.0		104	70-130			
Toluene	**21.8**	0.20	ug/L	20.0		109	81-123			
1,2,4-Trichlorobenzene	**20.3**	0.30	ug/L	20.0		102	80-137			
1,2,3-Trichlorobenzene	**19.0**	0.50	ug/L	20.0		94.8	73-144			
1,1,2-Trichloroethane	**21.5**	0.30	ug/L	20.0		107	76-122			
1,1,1-Trichloroethane	**21.2**	0.30	ug/L	20.0		106	62-164			
Trichloroethylene (TCE)	**20.8**	0.30	ug/L	20.0		104	72-136			
Trichlorofluoromethane (R11)	**23.2**	0.40	ug/L	20.0		116	59-144			
1,2,3-Trichloropropane	**21.4**	0.20	ug/L	20.0		107	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.0**	0.30	ug/L	20.0		89.8	62-126			
1,2,4-Trimethylbenzene	**22.6**	0.30	ug/L	20.0		113	89-134			
1,3,5-Trimethylbenzene	**22.5**	0.20	ug/L	20.0		113	70-130			
Vinyl chloride	**28.5**	0.40	ug/L	20.0	8.81	98.4	54-150			
o-Xylene	**21.3**	0.30	ug/L	20.0		106	70-130			
m,p-Xylenes	**43.4**	0.60	ug/L	40.0		109	70-130			
Surrogate: 4-Bromofluorobenzene	*49.5*		*ug/L*	*50.0*		*99.0*	*80-129*			
Surrogate: Dibromofluoromethane	*46.0*		*ug/L*	*50.0*		*92.0*	*68-137*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99.2*	*83-134*			
Matrix Spike Dup (B4L0605-MSD1)	**Source: 4K25019-07**			Prepared & Analyzed: 12/06/24						

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike Dup (B4L0605-MSD1) Continued	**Source: 4K25019-07**					Prepared & Analyzed: 12/06/24				
Acetone	**32.6**	7.7	ug/L	20.0		163	11-169	38.6	30	QR-02, J
Benzene	**21.3**	0.40	ug/L	20.0		106	56-135	0.141	30	
Bromobenzene	**21.3**	0.40	ug/L	20.0		106	70-130	1.23	30	
Bromochloromethane	**22.1**	0.20	ug/L	20.0		110	74-125	12.3	30	
Bromodichloromethane	**22.5**	0.40	ug/L	20.0		112	68-144	4.36	30	
Bromoform	**25.9**	0.40	ug/L	20.0		130	68-151	9.24	30	
Bromomethane	**24.5**	0.30	ug/L	20.0		123	54-142	18.0	30	
2-Butanone (MEK)	**24.8**	8.6	ug/L	20.0		124	62-145	8.60	30	
tert-Butylbenzene	**20.8**	0.20	ug/L	20.0		104	70-130	7.05	30	
n-Butylbenzene	**21.2**	0.20	ug/L	20.0		106	70-130	9.44	30	
sec-Butylbenzene	**20.4**	0.20	ug/L	20.0		102	84-145	9.99	30	
Carbon Disulfide	**20.8**	0.20	ug/L	20.0	0.400	102	28-151	9.21	30	
Carbon Tetrachloride	**20.7**	0.30	ug/L	20.0		103	58-164	2.25	30	
Chlorobenzene	**20.5**	0.40	ug/L	20.0		102	70-130	6.33	30	
Chloroethane	**25.0**	0.40	ug/L	20.0		125	42-164	8.08	30	
Chloroform	**20.7**	0.30	ug/L	20.0		104	65-138	1.17	30	
Chloromethane	**19.2**	0.40	ug/L	20.0		96.0	50-152	4.97	30	
4-Chlorotoluene	**20.9**	0.20	ug/L	20.0		105	70-130	5.53	30	
2-Chlorotoluene	**20.4**	0.20	ug/L	20.0		102	70-130	4.22	30	
1,2-Dibromo-3-chloropropane	**23.5**	0.40	ug/L	20.0		118	53-161	0.298	30	
Dibromochloromethane	**23.4**	0.40	ug/L	20.0		117	70-130	3.09	30	
1,2-Dibromoethane (EDB)	**23.8**	0.40	ug/L	20.0		119	76-130	9.99	30	
Dibromomethane	**22.8**	0.40	ug/L	20.0		114	62-135	14.6	30	
1,3-Dichlorobenzene	**20.2**	0.40	ug/L	20.0		101	70-130	4.55	30	
1,4-Dichlorobenzene	**20.7**	0.30	ug/L	20.0		104	70-130	2.67	30	
1,2-Dichlorobenzene	**21.6**	0.30	ug/L	20.0		108	70-130	1.43	30	
Dichlorodifluoromethane (R12)	**13.9**	0.40	ug/L	20.0		69.7	17-153	6.52	30	
1,1-Dichloroethane	**21.3**	0.20	ug/L	20.0	0.850	102	55-131	0.188	30	
1,2-Dichloroethane (EDC)	**25.8**	0.20	ug/L	20.0	2.07	119	52-168	12.9	30	
cis-1,2-Dichloroethylene	**37.5**	0.30	ug/L	20.0	17.2	102	70-130	1.67	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike Dup (B4L0605-MSD1) Continued				**Source: 4K25019-07**		Prepared & Analyzed: 12/06/24				
1,1-Dichloroethylene	**19.8**	0.40	ug/L	20.0		99.0	51-140	5.41	30	
trans-1,2-Dichloroethylene	**24.0**	0.30	ug/L	20.0	4.92	95.4	59-127	5.67	30	
1,3-Dichloropropane	**22.6**	0.40	ug/L	20.0		113	80-121	7.53	30	
1,2-Dichloropropane	**21.7**	0.30	ug/L	20.0		108	52-142	5.30	30	
2,2-Dichloropropane	**19.0**	0.30	ug/L	20.0		95.2	36-168	5.02	30	
trans-1,3-Dichloropropylene	**23.1**	0.30	ug/L	20.0		115	78-130	4.52	30	
1,1-Dichloropropylene	**20.2**	0.30	ug/L	20.0		101	76-132	4.60	30	
cis-1,3-Dichloropropylene	**22.3**	0.40	ug/L	20.0		112	66-130	6.43	30	
Ethylbenzene	**20.6**	0.30	ug/L	20.0		103	86-128	7.69	30	
Hexachlorobutadiene	**18.7**	0.50	ug/L	20.0		93.6	70-130	11.4	30	
2-Hexanone (MBK)	**23.9**	8.4	ug/L	20.0		119	52-141	10.4	30	
Isopropylbenzene	**21.1**	0.30	ug/L	20.0		105	70-130	7.35	30	
4-Isopropyltoluene	**21.0**	0.30	ug/L	20.0		105	83-149	6.40	30	
Methyl-tert-Butyl Ether (MTBE)	**48.8**	1.2	ug/L	40.0		122	56-150	16.7	30	
Methylene Chloride	**20.9**	4.4	ug/L	20.0		104	70-130	7.35	30	
4-Methyl-2-pentanone (MIBK)	**23.6**	9.8	ug/L	20.0		118	60-148	9.94	30	
Naphthalene	**27.2**	0.40	ug/L	20.0	0.520	134	70-130	20.2	30	QM-07
n-Propylbenzene	**21.6**	0.20	ug/L	20.0		108	70-130	8.33	30	
Styrene	**20.7**	0.20	ug/L	20.0		104	65-141	6.54	30	
1,1,1,2-Tetrachloroethane	**21.1**	0.30	ug/L	20.0		106	70-130	4.94	30	
1,1,2,2-Tetrachloroethane	**24.6**	0.40	ug/L	20.0		123	62-134	10.4	30	
Tetrachloroethylene (PCE)	**18.9**	0.50	ug/L	20.0		94.4	70-130	9.73	30	
Toluene	**19.6**	0.20	ug/L	20.0		97.8	81-123	10.7	30	
1,2,4-Trichlorobenzene	**21.5**	0.30	ug/L	20.0		107	80-137	5.55	30	
1,2,3-Trichlorobenzene	**22.1**	0.50	ug/L	20.0		110	73-144	15.1	30	
1,1,2-Trichloroethane	**23.0**	0.30	ug/L	20.0		115	76-122	7.06	30	
1,1,1-Trichloroethane	**20.5**	0.30	ug/L	20.0		103	62-164	3.26	30	
Trichloroethylene (TCE)	**20.4**	0.30	ug/L	20.0		102	72-136	2.23	30	
Trichlorofluoromethane (R11)	**25.4**	0.40	ug/L	20.0		127	59-144	8.77	30	
1,2,3-Trichloropropane	**25.4**	0.20	ug/L	20.0		127	69-135	17.3	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874674
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike Dup (B4L0605-MSD1) Continued			**Source: 4K25019-07**	Prepared & Analyzed: 12/06/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.7**	0.30	ug/L	20.0		88.6	62-126	1.34	30	
1,2,4-Trimethylbenzene	**20.9**	0.30	ug/L	20.0		104	89-134	7.64	30	
1,3,5-Trimethylbenzene	**21.0**	0.20	ug/L	20.0		105	70-130	7.08	30	
Vinyl chloride	**29.7**	0.40	ug/L	20.0	8.81	104	54-150	4.19	30	
o-Xylene	**20.2**	0.30	ug/L	20.0		101	70-130	5.31	30	
m,p-Xylenes	**39.8**	0.60	ug/L	40.0		99.6	70-130	8.55	30	
Surrogate: 4-Bromofluorobenzene	*50.7*		*ug/L*	*50.0*		*101*	*80-129*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99.2*	*68-137*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95.0*	*83-134*			
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										
Blank (B4K2635-BLK1)				Prepared & Analyzed: 11/26/24						
Methane	<2.0	2.0	ug/L							
Ethane	<2.0	2.0	ug/L							
Ethylene	<2.0	2.0	ug/L							
LCS (B4K2635-BS1)				Prepared & Analyzed: 11/26/24						
Methane	**9.50**	2.0	ug/L	10.1		94.1	75-125			
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125			
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125			
LCS Dup (B4K2635-BSD1)				Prepared & Analyzed: 11/26/24						
Methane	**9.48**	2.0	ug/L	10.1		93.9	75-125	0.211	30	
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125	0.206	30	
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125	0.235	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874674
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = O-01 : This compound is a possible field or laboratory contaminant.

[2] = QL-02 : The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.

[3] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[4] = QR-02 : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4K26050

Project Name: American Analytics
Project Number: Copper Drum

P.O. #:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 12/13/2024
Received Date: 11/26/2024 9:20 am
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: MW-61B-112224

4K26050-01 (Water) — Sampled: 11/22/24 9:01 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-57A-112224

4K26050-02 (Water) — Sampled: 11/22/24 10:47 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2269 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:42			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: MW-58-112224

4K26050-03 (Water) — Sampled: 11/22/24 12:37 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2269 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:42			**Analyst:** JAN	
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample Results

(Continued)

Sample: QC21-112224

4K26050-04 (Water) — Sampled: 11/22/24 12:55 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2269 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:42				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: QC22-112224

4K26050-05 (Water) — Sampled: 11/22/24 13:10 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: MW-01-112224

4K26050-06 (Water) — Sampled: 11/22/24 13:57 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: QC18-112224

4K26050-07 (Water) — Sampled: 11/22/24 9:15 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample Results

(Continued)

Sample: QC20-112224

4K26050-08 (Water) — Sampled: 11/22/24 14:00 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: MW-26-112224

4K26050-09 (Water) — Sampled: 11/22/24 8:37 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/30/24	

Sample: MW-25B-112224

4K26050-10 (Water) — Sampled: 11/22/24 10:08 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	0.018		0.0050	ug/l	1	11/30/24	

Sample: MW-29-112224

4K26050-11 (Water) — Sampled: 11/22/24 10:51 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	0.014		0.0050	ug/l	1	11/30/24	

Sample Results

(Continued)

Sample: MW-30-112224

4K26050-12 (Water) — Sampled: 11/22/24 11:42 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			*Instr:* GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	0.038		0.0050	ug/l	1	11/30/24	

Sample: MW-21-112224

4K26050-13 (Water) — Sampled: 11/22/24 14:23 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			*Instr:* GCMS12				
Batch ID: W4K2270 **Preparation:** EPA 5030B			**Prepared:** 11/30/24 07:55				**Analyst:** JAN
1,2,3-Trichloropropane	0.22		0.0050	ug/l	1	11/30/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K2200 - EPA 5030B										
Blank (W4K2200-BLK1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2200-BS1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0236	0.0050	ug/l	0.0200		118	80-120			
LCS Dup (W4K2200-BSD1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0227	0.0050	ug/l	0.0200		114	80-120	4	20	
Duplicate (W4K2200-DUP1)	Source: 4K21096-09		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	
Batch: W4K2269 - EPA 5030B										
Blank (W4K2269-BLK1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2269-BS1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0221	0.0050	ug/l	0.0200		110	80-120			
LCS Dup (W4K2269-BSD1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0221	0.0050	ug/l	0.0200		111	80-120	0.4	20	
Duplicate (W4K2269-DUP1)	Source: 4J11017-01		Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	
Batch: W4K2270 - EPA 5030B										
Blank (W4K2270-BLK1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2270-BS1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0211	0.0050	ug/l	0.0200		106	80-120			
LCS Dup (W4K2270-BSD1)			Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0214	0.0050	ug/l	0.0200		107	80-120	1	20	
Matrix Spike (W4K2270-MS1)	Source: 4K26050-06		Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0237	0.0050	ug/l	0.0200	*ND*	119	80-120			
Matrix Spike Dup (W4K2270-MSD1)	Source: 4K26050-06		Prepared & Analyzed: 11/30/24							
1,2,3-Trichloropropane	0.0223	0.0050	ug/l	0.0200	*ND*	111	80-120	6	200	

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

BLAINE
TECH SERVICES, INC.

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CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics /
Weck Laboratories, inc.

COC 1 of 2

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
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29740

A87H624/24K25018

SAMPLE I.D.	DATE	TIME	MATRIX AQ=Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM		MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-61B-112224	11/22/24	0901	AQ	7	HCl + Ascorbic	VOA AG	X	X	X							24K25018-01
MW-37A-112224		1047		7			X	X	X							-02
MW-58-112224		1237		7			X	X	X							-03
QC21-112224		1255		7			X	X	X							-04
QC22-112224		1310		7			X	X	X							-05
MW-01-112224		1357		15	HCl + Ascorbic	VOA AG	X	X	X		X					-06
QC17-112224		0700		2	HCL	VOA	X									-07
QC18-112224		0915		7	HCl + Ascorbic	VOA+AG	X	X	X							-08
QC19-112224		1400		7		VOA+AG	X	X	X							-09
MW-26-112224		0837		7		VOA+AG	X	X	X							-10

REVIEWED
Date 11/26/24 Time 0630
Sign
TAT N

SAMPLE INTEGRITY INTACT (Y) N
TEMP 1.8°C

'24 NOV 25 15:13

SAMPLING COMPLETED	DATE	TIME
	11/22/24	1500

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	1200		11/25/24	1200
	1600		11/25/24	1033

SHIPPED VIA

TIME SENT

COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics / Weck Laboratories, inc.

COC 2 of 2

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
Haley & Aldrich, Inc.
3187 Red Hill Avenue | Suite 155
Costa Mesa, CA 92626
T: 714.371.1828
C: 714.709.3072
www.haleyaldrich.com

29741
AS-46624/4K25018

SAMPLE I.D.	DATE	TIME	MATRIX AQ=Water	CONTAINERS #	Preservatic	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved gases (Ethene, Ethane, Methane) by RSK 175	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-25B-112224	11/22/24	1008	AQ	7	HCl +Ascorbic	VOC+AG	X	X	X							4K25018-11
MW-29-112224	"	1051	"	10			X	X	X	X						-12
MW-30-112224	"	1142	"	10			X	X	X	X						-13
MW-21-112224	"	1423	"	7			X	X	X							-14

REVIEWED JGC
Date 11/26/24 Time
TAT 4 Days Sign.

24 NOV 25 16:33

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	11/22/24	1500	DG

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	12:00		11/25/24	12:00
RELEASED BY	TIME	RECEIVED BY	DATE	TIME
	16:27		11/25/24	1633
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	TIME SENT	COOLER #

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum GW - South Gate / 130072-025

A874675 / 4K25019

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/25/24 16:33 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
QC19-112224	4K25019-01	Water	10	11/25/24 12:37	11/25/24 16:33
MW-19-112224	4K25019-02	Water	10	11/25/24 08:04	11/25/24 16:33
MW-25-112224	4K25019-03	Water	10	11/25/24 09:14	11/25/24 16:33
MW-29A-112224	4K25019-04	Water	10	11/25/24 12:32	11/25/24 16:33
MW-57B-112224	4K25019-05	Water	10	11/25/24 11:35	11/25/24 16:33
MW-59B-112224	4K25019-06	Water	10	11/25/24 13:43	11/25/24 16:33
MW-61A-112224	4K25019-07	Water	10	11/25/24 09:47	11/25/24 16:33
8270CM 1,4-Dioxane Only					
QC19-112224	4K25019-01	Water	10	11/25/24 12:37	11/25/24 16:33
MW-19-112224	4K25019-02	Water	10	11/25/24 08:04	11/25/24 16:33
MW-25-112224	4K25019-03	Water	10	11/25/24 09:14	11/25/24 16:33
MW-29A-112224	4K25019-04	Water	10	11/25/24 12:32	11/25/24 16:33
MW-57B-112224	4K25019-05	Water	10	11/25/24 11:35	11/25/24 16:33
MW-59B-112224	4K25019-06	Water	10	11/25/24 13:43	11/25/24 16:33
MW-61A-112224	4K25019-07	Water	10	11/25/24 09:47	11/25/24 16:33
Methane, Ethane, Ethene Dissolved					
MW-25-112224	4K25019-03	Water	10	11/25/24 09:14	11/25/24 16:33

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874675
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Prepared:	11/27/24	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/13/24	12/13/24	12/13/24	12/13/24		
AA ID No:	4K25019-01	4K25019-02	4K25019-03	4K25019-04		
Client ID No:	QC19-112224	MW-19-112224	MW-25-112224	MW-29A-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)						
1,4-Dioxane	**2.0**	**9.0**	**2.0**	**1.8**	0.50	1.0
Surrogates					**%REC Limits**	
1,4-Dioxane-d8	85.1%	84.7%	72.8%	90.5%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874675
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24		
Date Prepared:	11/27/24	11/27/24	11/27/24		
Date Analyzed:	12/13/24	12/13/24	12/14/24		
AA ID No:	4K25019-05	4K25019-06	4K25019-07		
Client ID No:	MW-57B-112224	MW-59B-112224	MW-61A-112224		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)					
1,4-Dioxane	<0.50	**9.0**	**4.6**	0.50	1.0
Surrogates				**%REC Limits**	
1,4-Dioxane-d8	85.8%	74.5%	89.3%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-01	4K25019-02	4K25019-03	4K25019-04		
Client ID No:	QC19-112224	MW-19-112224	MW-25-112224	MW-29A-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B)						
Acetone	<7.7	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.42 J [1]**	**0.76 [1]**	**0.58 [1]**	**0.80 [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-01	4K25019-02	4K25019-03	4K25019-04		
Client ID No:	QC19-112224	MW-19-112224	MW-25-112224	MW-29A-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,1-Dichloroethane	<0.20	**0.82**	**0.25 J**	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**0.79**	**0.70**	**0.91**	**0.80**	0.20	0.50
cis-1,2-Dichloroethylene	**9.8**	**26**	**14**	**11**	0.30	0.50
1,1-Dichloroethylene	<0.40	**1.3**	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**2.8**	**2.4**	**4.3**	**3.2**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-01	4K25019-02	4K25019-03	4K25019-04		
Client ID No:	QC19-112224	MW-19-112224	MW-25-112224	MW-29A-112224		
Matrix:	Water	Water	Water	Water		
Dilution Factor:	1	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**2.3**	<0.30	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	**3.9**	<0.40	<0.40	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	<0.60	0.60	1.0
Surrogates						**%REC Limits**
4-Bromofluorobenzene	99.5%	98.3%	101%	101%		80-129
Dibromofluoromethane	96.3%	95.6%	95.2%	96.6%		68-137
Toluene-d8	98.8%	98.9%	99.9%	99.3%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-05	4K25019-06	4K25019-07		
Client ID No:	MW-57B-112224	MW-59B-112224	MW-61A-112224		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL
8260B (EPA 8260B)					
Acetone	<7.7	<7.7	<7.7	7.7	50
Benzene	<0.40	<0.40	<0.40	0.40	0.50
Bromobenzene	<0.40	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	**0.40 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-05	4K25019-06	4K25019-07		
Client ID No:	MW-57B-112224	MW-59B-112224	MW-61A-112224		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)					
1,1-Dichloroethane	<0.20	**0.66**	**0.85**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.3**	**0.56**	**2.1**	0.20	0.50
cis-1,2-Dichloroethylene	**0.95**	**8.8**	**17**	0.30	0.50
1,1-Dichloroethylene	<0.40	**2.3**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	<0.30	<0.30	**4.9**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	**0.52 J**	0.40	2.0
n-Propylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate
Method: VOCs by GC/MS

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	11/25/24	11/25/24	11/25/24		
Date Prepared:	12/06/24	12/06/24	12/06/24		
Date Analyzed:	12/06/24	12/06/24	12/06/24		
AA ID No:	4K25019-05	4K25019-06	4K25019-07		
Client ID No:	MW-57B-112224	MW-59B-112224	MW-61A-112224		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL
8260B (EPA 8260B) (continued)					
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	<0.30	**0.45 J**	<0.30	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Vinyl chloride	<0.40	**9.1**	**8.8**	0.40	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	<0.60	0.60	1.0
Surrogates					**%REC Limits**
4-Bromofluorobenzene	101%	102%	102%		80-129
Dibromofluoromethane	102%	96.1%	101%		68-137
Toluene-d8	99.6%	102%	101%		83-134

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LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874675
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24
Method:	Dissolved Gases by RSK-175M	**Units:**	ug/L

Date Sampled:	11/25/24		
Date Prepared:	11/26/24		
Date Analyzed:	11/26/24		
AA ID No:	4K25019-03		
Client ID No:	MW-25-112224		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

Methane, Ethane, Ethene Dissolved (RSK-175M)

Methane	**18**	2.0	2.0
Ethane	<2.0	2.0	2.0
Ethylene	<2.0	2.0	2.0

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K2702 - EPA 3510C_MS										
Blank (B4K2702-BLK1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*419*		*ug/L*	*400*		*105*	*50-150*			
LCS (B4K2702-BS1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	**30.6**	0.50	ug/L	40.0		76.5	75-125			
Surrogate: 1,4-Dioxane-d8	*365*		*ug/L*	*400*		*91.2*	*50-150*			
LCS Dup (B4K2702-BSD1)				Prepared: 11/27/24 Analyzed: 12/13/24						
1,4-Dioxane	**31.8**	0.50	ug/L	40.0		79.5	75-125	3.85	30	
Surrogate: 1,4-Dioxane-d8	*547*		*ug/L*	*400*		*137*	*50-150*			
Matrix Spike (B4K2702-MS1)			**Source: 4K25018-06**	Prepared: 11/27/24 Analyzed: 12/14/24						
1,4-Dioxane	**40.6**	0.50	ug/L	40.0	2.20	96.0	70-130			
Surrogate: 1,4-Dioxane-d8	*180*		*ug/L*	*200*		*90.2*	*50-150*			
Matrix Spike Dup (B4K2702-MSD1)			**Source: 4K25018-06**	Prepared: 11/27/24 Analyzed: 12/14/24						
1,4-Dioxane	**45.2**	0.50	ug/L	40.0	2.20	108	70-130	10.7	30	
Surrogate: 1,4-Dioxane-d8	*189*		*ug/L*	*200*		*94.5*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1)				Prepared & Analyzed: 12/06/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							



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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1) Continued				Prepared & Analyzed: 12/06/24						
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							



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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Blank (B4L0605-BLK1) Continued				Prepared & Analyzed: 12/06/24						
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*49.0*		*ug/L*	*50.0*		*98.1*	*80-129*			
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96.1*	*83-134*			
LCS (B4L0605-BS1)				Prepared & Analyzed: 12/06/24						
Acetone	**24.6**	7.7	ug/L	20.0		123	27-123			J
Benzene	**19.1**	0.40	ug/L	20.0		95.6	60-134			
Bromobenzene	**19.8**	0.40	ug/L	20.0		98.8	70-130			
Bromochloromethane	**19.0**	0.20	ug/L	20.0		95.0	78-121			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS (B4L0605-BS1) Continued				Prepared & Analyzed: 12/06/24						
Bromodichloromethane	**19.6**	0.40	ug/L	20.0		98.0	74-135			
Bromoform	**24.0**	0.40	ug/L	20.0		120	68-132			
Bromomethane	**20.6**	0.30	ug/L	20.0		103	58-142			
2-Butanone (MEK)	**20.3**	8.6	ug/L	20.0		101	62-138			
tert-Butylbenzene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
n-Butylbenzene	**20.9**	0.20	ug/L	20.0		104	70-130			
sec-Butylbenzene	**20.2**	0.20	ug/L	20.0		101	84-142			
Carbon Disulfide	**20.0**	0.20	ug/L	20.0		99.8	17-177			
Carbon Tetrachloride	**19.2**	0.30	ug/L	20.0		95.8	66-155			
Chlorobenzene	**20.0**	0.40	ug/L	20.0		99.9	70-130			
Chloroethane	**20.9**	0.40	ug/L	20.0		104	45-166			
Chloroform	**18.9**	0.30	ug/L	20.0		94.3	71-131			
Chloromethane	**17.4**	0.40	ug/L	20.0		87.0	48-152			
4-Chlorotoluene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
2-Chlorotoluene	**18.6**	0.20	ug/L	20.0		93.0	70-130			
1,2-Dibromo-3-chloropropane	**22.2**	0.40	ug/L	20.0		111	53-145			
Dibromochloromethane	**21.8**	0.40	ug/L	20.0		109	72-133			
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120			
Dibromomethane	**19.4**	0.40	ug/L	20.0		97.1	68-124			
1,3-Dichlorobenzene	**19.4**	0.40	ug/L	20.0		96.9	70-130			
1,4-Dichlorobenzene	**19.6**	0.30	ug/L	20.0		97.8	70-130			
1,2-Dichlorobenzene	**20.1**	0.30	ug/L	20.0		100	70-130			
Dichlorodifluoromethane (R12)	**12.8**	0.40	ug/L	20.0		64.0	16-148			
1,1-Dichloroethane	**18.2**	0.20	ug/L	20.0		90.8	67-120			
1,2-Dichloroethane (EDC)	**19.2**	0.20	ug/L	20.0		95.9	57-156			
cis-1,2-Dichloroethylene	**18.9**	0.30	ug/L	20.0		94.3	70-124			
1,1-Dichloroethylene	**18.2**	0.40	ug/L	20.0		91.0	50-149			
trans-1,2-Dichloroethylene	**18.8**	0.30	ug/L	20.0		93.8	66-126			
1,3-Dichloropropane	**20.0**	0.40	ug/L	20.0		99.9	79-113			
1,2-Dichloropropane	**19.0**	0.30	ug/L	20.0		95.0	53-139			
2,2-Dichloropropane	**18.1**	0.30	ug/L	20.0		90.7	44-162			
trans-1,3-Dichloropropylene	**21.2**	0.30	ug/L	20.0		106	76-121			



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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS (B4L0605-BS1) Continued				Prepared & Analyzed: 12/06/24						
1,1-Dichloropropylene	**18.5**	0.30	ug/L	20.0		92.4	84-124			
cis-1,3-Dichloropropylene	**20.0**	0.40	ug/L	20.0		99.8	67-127			
Ethylbenzene	**20.2**	0.30	ug/L	20.0		101	86-124			
Hexachlorobutadiene	**19.6**	0.50	ug/L	20.0		97.9	76-140			
2-Hexanone (MBK)	**21.8**	8.4	ug/L	20.0		109	52-123			
Isopropylbenzene	**19.8**	0.30	ug/L	20.0		98.8	70-130			
4-Isopropyltoluene	**20.5**	0.30	ug/L	20.0		102	70-130			
Methyl-tert-Butyl Ether (MTBE)	**41.1**	1.2	ug/L	40.0		103	58-144			
Methylene Chloride	**16.8**	4.4	ug/L	20.0		83.8	50-135			
4-Methyl-2-pentanone (MIBK)	**21.7**	9.8	ug/L	20.0		108	49-139			
Naphthalene	**22.8**	0.40	ug/L	20.0		114	74-128			
n-Propylbenzene	**20.2**	0.20	ug/L	20.0		101	70-130			
Styrene	**20.7**	0.20	ug/L	20.0		103	84-123			
1,1,1,2-Tetrachloroethane	**20.4**	0.30	ug/L	20.0		102	70-130			
1,1,2,2-Tetrachloroethane	**21.7**	0.40	ug/L	20.0		109	58-126			
Tetrachloroethylene (PCE)	**19.3**	0.50	ug/L	20.0		96.6	70-130			
Toluene	**19.4**	0.20	ug/L	20.0		97.0	83-118			
1,2,4-Trichlorobenzene	**20.1**	0.30	ug/L	20.0		101	84-128			
1,2,3-Trichlorobenzene	**19.7**	0.50	ug/L	20.0		98.6	77-134			
1,1,2-Trichloroethane	**20.6**	0.30	ug/L	20.0		103	75-115			
1,1,1-Trichloroethane	**19.1**	0.30	ug/L	20.0		95.5	66-158			
Trichloroethylene (TCE)	**18.8**	0.30	ug/L	20.0		93.8	82-128			
Trichlorofluoromethane (R11)	**22.2**	0.40	ug/L	20.0		111	65-137			
1,2,3-Trichloropropane	**21.7**	0.20	ug/L	20.0		108	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.3**	0.30	ug/L	20.0		81.4	62-130			
1,2,4-Trimethylbenzene	**19.8**	0.30	ug/L	20.0		98.8	70-130			
1,3,5-Trimethylbenzene	**19.6**	0.20	ug/L	20.0		98.2	70-130			
Vinyl chloride	**20.5**	0.40	ug/L	20.0		102	51-151			
o-Xylene	**19.1**	0.30	ug/L	20.0		95.3	70-130			
m,p-Xylenes	**39.5**	0.60	ug/L	40.0		98.7	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS (B4L0605-BS1) Continued				Prepared & Analyzed: 12/06/24						
Surrogate: 4-Bromofluorobenzene	*47.8*		*ug/L*	*50.0*		*95.5*	*80-129*			
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93.1*	*68-137*			
Surrogate: Toluene-d8	*48.5*		*ug/L*	*50.0*		*97.0*	*83-134*			
LCS Dup (B4L0605-BSD1)				Prepared & Analyzed: 12/06/24						
Acetone	**24.4**	7.7	ug/L	20.0		122	27-123	0.938	30	J
Benzene	**19.9**	0.40	ug/L	20.0		99.3	60-134	3.74	30	
Bromobenzene	**20.6**	0.40	ug/L	20.0		103	70-130	4.16	30	
Bromochloromethane	**20.0**	0.20	ug/L	20.0		100	78-121	5.23	30	
Bromodichloromethane	**21.5**	0.40	ug/L	20.0		107	74-135	9.15	30	
Bromoform	**24.9**	0.40	ug/L	20.0		124	68-132	3.56	30	
Bromomethane	**22.4**	0.30	ug/L	20.0		112	58-142	8.25	30	
2-Butanone (MEK)	**23.3**	8.6	ug/L	20.0		117	62-138	14.1	30	
tert-Butylbenzene	**20.6**	0.20	ug/L	20.0		103	70-130	4.88	30	
n-Butylbenzene	**21.4**	0.20	ug/L	20.0		107	70-130	2.60	30	
sec-Butylbenzene	**20.8**	0.20	ug/L	20.0		104	84-142	3.03	30	
Carbon Disulfide	**19.3**	0.20	ug/L	20.0		96.6	17-177	3.16	30	
Carbon Tetrachloride	**19.4**	0.30	ug/L	20.0		96.8	66-155	0.986	30	
Chlorobenzene	**20.4**	0.40	ug/L	20.0		102	70-130	1.93	30	
Chloroethane	**23.5**	0.40	ug/L	20.0		118	45-166	12.0	30	
Chloroform	**19.7**	0.30	ug/L	20.0		98.6	71-131	4.41	30	
Chloromethane	**18.2**	0.40	ug/L	20.0		91.2	48-152	4.60	30	
4-Chlorotoluene	**20.6**	0.20	ug/L	20.0		103	70-130	4.73	30	
2-Chlorotoluene	**19.6**	0.20	ug/L	20.0		97.8	70-130	4.93	30	
1,2-Dibromo-3-chloropropane	**24.2**	0.40	ug/L	20.0		121	53-145	8.80	30	
Dibromochloromethane	**22.9**	0.40	ug/L	20.0		115	72-133	5.23	30	
1,2-Dibromoethane (EDB)	**22.4**	0.40	ug/L	20.0		112	79-120	6.27	30	
Dibromomethane	**21.3**	0.40	ug/L	20.0		106	68-124	9.09	30	
1,3-Dichlorobenzene	**20.1**	0.40	ug/L	20.0		100	70-130	3.50	30	
1,4-Dichlorobenzene	**20.1**	0.30	ug/L	20.0		101	70-130	2.72	30	
1,2-Dichlorobenzene	**21.1**	0.30	ug/L	20.0		106	70-130	5.00	30	
Dichlorodifluoromethane (R12)	**13.7**	0.40	ug/L	20.0		68.7	16-148	7.16	30	
1,1-Dichloroethane	**19.3**	0.20	ug/L	20.0		96.5	67-120	6.03	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS Dup (B4L0605-BSD1) Continued				Prepared & Analyzed: 12/06/24						
1,2-Dichloroethane (EDC)	**21.0**	0.20	ug/L	20.0		105	57-156	8.96	30	
cis-1,2-Dichloroethylene	**19.2**	0.30	ug/L	20.0		95.8	70-124	1.63	30	
1,1-Dichloroethylene	**17.8**	0.40	ug/L	20.0		88.8	50-149	2.56	30	
trans-1,2-Dichloroethylene	**18.9**	0.30	ug/L	20.0		94.4	66-126	0.531	30	
1,3-Dichloropropane	**21.5**	0.40	ug/L	20.0		108	79-113	7.51	30	
1,2-Dichloropropane	**20.6**	0.30	ug/L	20.0		103	53-139	8.22	30	
2,2-Dichloropropane	**16.4**	0.30	ug/L	20.0		82.0	44-162	10.0	30	
trans-1,3-Dichloropropylene	**21.4**	0.30	ug/L	20.0		107	76-121	0.892	30	
1,1-Dichloropropylene	**18.5**	0.30	ug/L	20.0		92.3	84-124	0.0542	30	
cis-1,3-Dichloropropylene	**21.0**	0.40	ug/L	20.0		105	67-127	5.12	30	
Ethylbenzene	**20.7**	0.30	ug/L	20.0		104	86-124	2.49	30	
Hexachlorobutadiene	**19.8**	0.50	ug/L	20.0		99.1	76-140	1.22	30	
2-Hexanone (MBK)	**23.6**	8.4	ug/L	20.0		118	52-123	8.23	30	
Isopropylbenzene	**20.8**	0.30	ug/L	20.0		104	70-130	4.94	30	
4-Isopropyltoluene	**20.8**	0.30	ug/L	20.0		104	70-130	1.69	30	
Methyl-tert-Butyl Ether (MTBE)	**44.5**	1.2	ug/L	40.0		111	58-144	7.87	30	
Methylene Chloride	**20.2**	4.4	ug/L	20.0		101	50-135	18.6	30	
4-Methyl-2-pentanone (MIBK)	**24.5**	9.8	ug/L	20.0		122	49-139	12.2	30	
Naphthalene	**25.1**	0.40	ug/L	20.0		125	74-128	9.78	30	
n-Propylbenzene	**21.0**	0.20	ug/L	20.0		105	70-130	4.02	30	
Styrene	**21.4**	0.20	ug/L	20.0		107	84-123	3.42	30	
1,1,1,2-Tetrachloroethane	**21.0**	0.30	ug/L	20.0		105	70-130	2.91	30	
1,1,2,2-Tetrachloroethane	**23.8**	0.40	ug/L	20.0		119	58-126	9.39	30	
Tetrachloroethylene (PCE)	**18.8**	0.50	ug/L	20.0		94.0	70-130	2.62	30	
Toluene	**19.7**	0.20	ug/L	20.0		98.6	83-118	1.69	30	
1,2,4-Trichlorobenzene	**20.7**	0.30	ug/L	20.0		104	84-128	2.84	30	
1,2,3-Trichlorobenzene	**21.2**	0.50	ug/L	20.0		106	77-134	7.18	30	
1,1,2-Trichloroethane	**21.8**	0.30	ug/L	20.0		109	75-115	5.51	30	
1,1,1-Trichloroethane	**19.4**	0.30	ug/L	20.0		97.0	66-158	1.61	30	
Trichloroethylene (TCE)	**19.2**	0.30	ug/L	20.0		96.1	82-128	2.37	30	
Trichlorofluoromethane (R11)	**24.7**	0.40	ug/L	20.0		124	65-137	10.6	30	
1,2,3-Trichloropropane	**23.6**	0.20	ug/L	20.0		118	68-123	8.40	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
LCS Dup (B4L0605-BSD1) Continued				Prepared & Analyzed: 12/06/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.4**	0.30	ug/L	20.0		82.0	62-130	0.673	30	
1,2,4-Trimethylbenzene	**20.4**	0.30	ug/L	20.0		102	70-130	3.33	30	
1,3,5-Trimethylbenzene	**20.4**	0.20	ug/L	20.0		102	70-130	3.70	30	
Vinyl chloride	**22.7**	0.40	ug/L	20.0		114	51-151	10.4	30	
o-Xylene	**20.1**	0.30	ug/L	20.0		101	70-130	5.51	30	
m,p-Xylenes	**40.8**	0.60	ug/L	40.0		102	70-130	3.36	30	
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/L*	*50.0*		*98.5*	*80-129*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99.2*	*68-137*			
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98.1*	*83-134*			
Matrix Spike (B4L0605-MS1)			**Source: 4K25019-07**	Prepared & Analyzed: 12/06/24						
Acetone	**22.1**	7.7	ug/L	20.0	<50	110	11-169			J
Benzene	**21.3**	0.40	ug/L	20.0	<0.50	106	56-135			
Bromobenzene	**21.0**	0.40	ug/L	20.0	<0.50	105	70-130			
Bromochloromethane	**19.5**	0.20	ug/L	20.0	<0.50	97.5	74-125			
Bromodichloromethane	**21.5**	0.40	ug/L	20.0	<0.50	108	68-144			
Bromoform	**23.6**	0.40	ug/L	20.0	<0.50	118	68-151			
Bromomethane	**20.5**	0.30	ug/L	20.0	<0.50	102	54-142			
2-Butanone (MEK)	**22.8**	8.6	ug/L	20.0	<20	114	62-145			
tert-Butylbenzene	**22.3**	0.20	ug/L	20.0	<0.50	112	70-130			
n-Butylbenzene	**23.3**	0.20	ug/L	20.0	<0.50	116	70-130			
sec-Butylbenzene	**22.6**	0.20	ug/L	20.0	<0.50	113	84-145			
Carbon Disulfide	**22.8**	0.20	ug/L	20.0	0.400	112	28-151			
Carbon Tetrachloride	**21.2**	0.30	ug/L	20.0	<0.50	106	58-164			
Chlorobenzene	**21.8**	0.40	ug/L	20.0	<0.50	109	70-130			
Chloroethane	**23.0**	0.40	ug/L	20.0	<0.50	115	42-164			
Chloroform	**20.5**	0.30	ug/L	20.0	<0.50	102	65-138			
Chloromethane	**18.3**	0.40	ug/L	20.0	<0.50	91.3	50-152			
4-Chlorotoluene	**22.1**	0.20	ug/L	20.0	<0.50	111	70-130			
2-Chlorotoluene	**21.3**	0.20	ug/L	20.0	<0.50	106	70-130			
1,2-Dibromo-3-chloropropane	**23.5**	0.40	ug/L	20.0	<1.0	117	53-161			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike (B4L0605-MS1) Continued	**Source: 4K25019-07**			Prepared & Analyzed: 12/06/24						
Dibromochloromethane	**22.6**	0.40	ug/L	20.0	<0.50	113	70-130			
1,2-Dibromoethane (EDB)	**21.5**	0.40	ug/L	20.0	<0.50	107	76-130			
Dibromomethane	**19.7**	0.40	ug/L	20.0	<0.50	98.4	62-135			
1,3-Dichlorobenzene	**21.2**	0.40	ug/L	20.0	<0.50	106	70-130			
1,4-Dichlorobenzene	**21.3**	0.30	ug/L	20.0	<0.50	106	70-130			
1,2-Dichlorobenzene	**21.9**	0.30	ug/L	20.0	<0.50	109	70-130			
Dichlorodifluoromethane (R12)	**13.1**	0.40	ug/L	20.0	<0.50	65.3	17-153			
1,1-Dichloroethane	**21.3**	0.20	ug/L	20.0	0.850	102	55-131			
1,2-Dichloroethane (EDC)	**22.7**	0.20	ug/L	20.0	2.07	103	52-168			
cis-1,2-Dichloroethylene	**36.9**	0.30	ug/L	20.0	17.2	98.5	70-130			
1,1-Dichloroethylene	**20.9**	0.40	ug/L	20.0	<0.50	104	51-140			
trans-1,2-Dichloroethylene	**25.4**	0.30	ug/L	20.0	4.92	102	59-127			
1,3-Dichloropropane	**21.0**	0.40	ug/L	20.0	<0.50	105	80-121			
1,2-Dichloropropane	**20.6**	0.30	ug/L	20.0	<0.50	103	52-142			
2,2-Dichloropropane	**20.0**	0.30	ug/L	20.0	<0.50	100	36-168			
trans-1,3-Dichloropropylene	**22.1**	0.30	ug/L	20.0	<0.50	110	78-130			
1,1-Dichloropropylene	**21.1**	0.30	ug/L	20.0	<0.50	106	76-132			
cis-1,3-Dichloropropylene	**20.9**	0.40	ug/L	20.0	<0.50	105	66-130			
Ethylbenzene	**22.3**	0.30	ug/L	20.0	<0.50	111	86-128			
Hexachlorobutadiene	**21.0**	0.50	ug/L	20.0	<1.0	105	70-130			
2-Hexanone (MBK)	**21.5**	8.4	ug/L	20.0	<20	108	52-141			
Isopropylbenzene	**22.7**	0.30	ug/L	20.0	<0.50	114	70-130			
4-Isopropyltoluene	**22.4**	0.30	ug/L	20.0	<1.0	112	83-149			
Methyl-tert-Butyl Ether (MTBE)	**41.2**	1.2	ug/L	40.0	<2.0	103	56-150			
Methylene Chloride	**19.4**	4.4	ug/L	20.0	<5.0	97.0	70-130			
4-Methyl-2-pentanone (MIBK)	**21.4**	9.8	ug/L	20.0	<20	107	60-148			
Naphthalene	**22.2**	0.40	ug/L	20.0	0.520	109	70-130			
n-Propylbenzene	**23.5**	0.20	ug/L	20.0	<0.50	118	70-130			
Styrene	**22.1**	0.20	ug/L	20.0	<0.50	110	65-141			
1,1,1,2-Tetrachloroethane	**22.2**	0.30	ug/L	20.0	<0.50	111	70-130			
1,1,2,2-Tetrachloroethane	**22.1**	0.40	ug/L	20.0	<0.50	111	62-134			
Tetrachloroethylene (PCE)	**20.8**	0.50	ug/L	20.0	<0.50	104	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike (B4L0605-MS1) Continued				**Source: 4K25019-07**		Prepared & Analyzed: 12/06/24				
Toluene	**21.8**	0.20	ug/L	20.0	<0.50	109	81-123			
1,2,4-Trichlorobenzene	**20.3**	0.30	ug/L	20.0	<0.50	102	80-137			
1,2,3-Trichlorobenzene	**19.0**	0.50	ug/L	20.0	<0.50	94.8	73-144			
1,1,2-Trichloroethane	**21.5**	0.30	ug/L	20.0	<0.50	107	76-122			
1,1,1-Trichloroethane	**21.2**	0.30	ug/L	20.0	<0.50	106	62-164			
Trichloroethylene (TCE)	**20.8**	0.30	ug/L	20.0	<0.50	104	72-136			
Trichlorofluoromethane (R11)	**23.2**	0.40	ug/L	20.0	<0.50	116	59-144			
1,2,3-Trichloropropane	**21.4**	0.20	ug/L	20.0	<0.50	107	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**18.0**	0.30	ug/L	20.0	<0.50	89.8	62-126			
1,2,4-Trimethylbenzene	**22.6**	0.30	ug/L	20.0	<0.50	113	89-134			
1,3,5-Trimethylbenzene	**22.5**	0.20	ug/L	20.0	<0.50	113	70-130			
Vinyl chloride	**28.5**	0.40	ug/L	20.0	8.81	98.4	54-150			
o-Xylene	**21.3**	0.30	ug/L	20.0	<0.50	106	70-130			
m,p-Xylenes	**43.4**	0.60	ug/L	40.0	<1.0	109	70-130			
Surrogate: 4-Bromofluorobenzene	*49.5*		*ug/L*	*50.0*		*99.0*	*80-129*			
Surrogate: Dibromofluoromethane	*46.0*		*ug/L*	*50.0*		*92.0*	*68-137*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99.2*	*83-134*			
Matrix Spike Dup (B4L0605-MSD1)				**Source: 4K25019-07**		Prepared & Analyzed: 12/06/24				
Acetone	**32.6**	7.7	ug/L	20.0	<50	163	11-169	38.6	30	QR-02, J
Benzene	**21.3**	0.40	ug/L	20.0	<0.50	106	56-135	0.141	30	
Bromobenzene	**21.3**	0.40	ug/L	20.0	<0.50	106	70-130	1.23	30	
Bromochloromethane	**22.1**	0.20	ug/L	20.0	<0.50	110	74-125	12.3	30	
Bromodichloromethane	**22.5**	0.40	ug/L	20.0	<0.50	112	68-144	4.36	30	
Bromoform	**25.9**	0.40	ug/L	20.0	<0.50	130	68-151	9.24	30	
Bromomethane	**24.5**	0.30	ug/L	20.0	<0.50	123	54-142	18.0	30	
2-Butanone (MEK)	**24.8**	8.6	ug/L	20.0	<20	124	62-145	8.60	30	
tert-Butylbenzene	**20.8**	0.20	ug/L	20.0	<0.50	104	70-130	7.05	30	
n-Butylbenzene	**21.2**	0.20	ug/L	20.0	<0.50	106	70-130	9.44	30	
sec-Butylbenzene	**20.4**	0.20	ug/L	20.0	<0.50	102	84-145	9.99	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike Dup (B4L0605-MSD1) Continued				**Source: 4K25019-07**	Prepared & Analyzed: 12/06/24					
Carbon Disulfide	**20.8**	0.20	ug/L	20.0	0.400	102	28-151	9.21	30	
Carbon Tetrachloride	**20.7**	0.30	ug/L	20.0	<0.50	103	58-164	2.25	30	
Chlorobenzene	**20.5**	0.40	ug/L	20.0	<0.50	102	70-130	6.33	30	
Chloroethane	**25.0**	0.40	ug/L	20.0	<0.50	125	42-164	8.08	30	
Chloroform	**20.7**	0.30	ug/L	20.0	<0.50	104	65-138	1.17	30	
Chloromethane	**19.2**	0.40	ug/L	20.0	<0.50	96.0	50-152	4.97	30	
4-Chlorotoluene	**20.9**	0.20	ug/L	20.0	<0.50	105	70-130	5.53	30	
2-Chlorotoluene	**20.4**	0.20	ug/L	20.0	<0.50	102	70-130	4.22	30	
1,2-Dibromo-3-chloropropane	**23.5**	0.40	ug/L	20.0	<1.0	118	53-161	0.298	30	
Dibromochloromethane	**23.4**	0.40	ug/L	20.0	<0.50	117	70-130	3.09	30	
1,2-Dibromoethane (EDB)	**23.8**	0.40	ug/L	20.0	<0.50	119	76-130	9.99	30	
Dibromomethane	**22.8**	0.40	ug/L	20.0	<0.50	114	62-135	14.6	30	
1,3-Dichlorobenzene	**20.2**	0.40	ug/L	20.0	<0.50	101	70-130	4.55	30	
1,4-Dichlorobenzene	**20.7**	0.30	ug/L	20.0	<0.50	104	70-130	2.67	30	
1,2-Dichlorobenzene	**21.6**	0.30	ug/L	20.0	<0.50	108	70-130	1.43	30	
Dichlorodifluoromethane (R12)	**13.9**	0.40	ug/L	20.0	<0.50	69.7	17-153	6.52	30	
1,1-Dichloroethane	**21.3**	0.20	ug/L	20.0	0.850	102	55-131	0.188	30	
1,2-Dichloroethane (EDC)	**25.8**	0.20	ug/L	20.0	2.07	119	52-168	12.9	30	
cis-1,2-Dichloroethylene	**37.5**	0.30	ug/L	20.0	17.2	102	70-130	1.67	30	
1,1-Dichloroethylene	**19.8**	0.40	ug/L	20.0	<0.50	99.0	51-140	5.41	30	
trans-1,2-Dichloroethylene	**24.0**	0.30	ug/L	20.0	4.92	95.4	59-127	5.67	30	
1,3-Dichloropropane	**22.6**	0.40	ug/L	20.0	<0.50	113	80-121	7.53	30	
1,2-Dichloropropane	**21.7**	0.30	ug/L	20.0	<0.50	108	52-142	5.30	30	
2,2-Dichloropropane	**19.0**	0.30	ug/L	20.0	<0.50	95.2	36-168	5.02	30	
trans-1,3-Dichloropropylene	**23.1**	0.30	ug/L	20.0	<0.50	115	78-130	4.52	30	
1,1-Dichloropropylene	**20.2**	0.30	ug/L	20.0	<0.50	101	76-132	4.60	30	
cis-1,3-Dichloropropylene	**22.3**	0.40	ug/L	20.0	<0.50	112	66-130	6.43	30	
Ethylbenzene	**20.6**	0.30	ug/L	20.0	<0.50	103	86-128	7.69	30	
Hexachlorobutadiene	**18.7**	0.50	ug/L	20.0	<1.0	93.6	70-130	11.4	30	
2-Hexanone (MBK)	**23.9**	8.4	ug/L	20.0	<20	119	52-141	10.4	30	
Isopropylbenzene	**21.1**	0.30	ug/L	20.0	<0.50	105	70-130	7.35	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L0605 - EPA 5030B										
Matrix Spike Dup (B4L0605-MSD1) Continued	**Source: 4K25019-07** Prepared & Analyzed: 12/06/24									
4-Isopropyltoluene	**21.0**	0.30	ug/L	20.0	<1.0	105	83-149	6.40	30	
Methyl-tert-Butyl Ether (MTBE)	**48.8**	1.2	ug/L	40.0	<2.0	122	56-150	16.7	30	
Methylene Chloride	**20.9**	4.4	ug/L	20.0	<5.0	104	70-130	7.35	30	
4-Methyl-2-pentanone (MIBK)	**23.6**	9.8	ug/L	20.0	<20	118	60-148	9.94	30	
Naphthalene	**27.2**	0.40	ug/L	20.0	0.520	134	70-130	20.2	30	QM-07
n-Propylbenzene	**21.6**	0.20	ug/L	20.0	<0.50	108	70-130	8.33	30	
Styrene	**20.7**	0.20	ug/L	20.0	<0.50	104	65-141	6.54	30	
1,1,1,2-Tetrachloroethane	**21.1**	0.30	ug/L	20.0	<0.50	106	70-130	4.94	30	
1,1,2,2-Tetrachloroethane	**24.6**	0.40	ug/L	20.0	<0.50	123	62-134	10.4	30	
Tetrachloroethylene (PCE)	**18.9**	0.50	ug/L	20.0	<0.50	94.4	70-130	9.73	30	
Toluene	**19.6**	0.20	ug/L	20.0	<0.50	97.8	81-123	10.7	30	
1,2,4-Trichlorobenzene	**21.5**	0.30	ug/L	20.0	<0.50	107	80-137	5.55	30	
1,2,3-Trichlorobenzene	**22.1**	0.50	ug/L	20.0	<0.50	110	73-144	15.1	30	
1,1,2-Trichloroethane	**23.0**	0.30	ug/L	20.0	<0.50	115	76-122	7.06	30	
1,1,1-Trichloroethane	**20.5**	0.30	ug/L	20.0	<0.50	103	62-164	3.26	30	
Trichloroethylene (TCE)	**20.4**	0.30	ug/L	20.0	<0.50	102	72-136	2.23	30	
Trichlorofluoromethane (R11)	**25.4**	0.40	ug/L	20.0	<0.50	127	59-144	8.77	30	
1,2,3-Trichloropropane	**25.4**	0.20	ug/L	20.0	<0.50	127	69-135	17.3	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**17.7**	0.30	ug/L	20.0	<0.50	88.6	62-126	1.34	30	
1,2,4-Trimethylbenzene	**20.9**	0.30	ug/L	20.0	<0.50	104	89-134	7.64	30	
1,3,5-Trimethylbenzene	**21.0**	0.20	ug/L	20.0	<0.50	105	70-130	7.08	30	
Vinyl chloride	**29.7**	0.40	ug/L	20.0	8.81	104	54-150	4.19	30	
o-Xylene	**20.2**	0.30	ug/L	20.0	<0.50	101	70-130	5.31	30	
m,p-Xylenes	**39.8**	0.60	ug/L	40.0	<1.0	99.6	70-130	8.55	30	
Surrogate: 4-Bromofluorobenzene	*50.7*		*ug/L*	*50.0*		*101*	*80-129*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99.2*	*68-137*			
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95.0*	*83-134*			
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-025
Project Name: Cooper Drum GW - South Gate

AA Project No: A874675
Date Received: 11/25/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dissolved Gases by RSK-175M - Quality Control										
*Batch B4K2635 - *** DEFAULT PREP ****										
Blank (B4K2635-BLK1)				Prepared & Analyzed: 11/26/24						
Methane	<2.0	2.0	ug/L							
Ethane	<2.0	2.0	ug/L							
Ethylene	<2.0	2.0	ug/L							
LCS (B4K2635-BS1)				Prepared & Analyzed: 11/26/24						
Methane	**9.50**	2.0	ug/L	10.1		94.1	75-125			
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125			
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125			
LCS Dup (B4K2635-BSD1)				Prepared & Analyzed: 11/26/24						
Methane	**9.48**	2.0	ug/L	10.1		93.9	75-125	0.211	30	
Ethane	**19.4**	2.0	ug/L	18.9		103	75-125	0.206	30	
Ethylene	**21.3**	2.0	ug/L	17.6		121	75-125	0.235	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874675
Project No:	130072-025	**Date Received:**	11/25/24
Project Name:	Cooper Drum GW - South Gate	**Date Reported:**	12/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = O-01 : This compound is a possible field or laboratory contaminant.

[2] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[3] = QR-02 : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4K26051

Project Name: American Analytics
Project Number: Cooper Drum

P.O. #:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 12/17/2024
Received Date: 11/26/2024 9:20 am
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: QC19-112224

4K26051-01 (Water) — Sampled: 11/22/24 12:37 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-19-112224

4K26051-02 (Water) — Sampled: 11/22/24 8:04 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	0.082		0.0050	ug/l	1	11/28/24	

Sample: MW-25-112224

4K26051-03 (Water) — Sampled: 11/22/24 9:14 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	0.017		0.0050	ug/l	1	11/28/24	

Sample Results

(Continued)

Sample: MW-29A-112224

4K26051-04 (Water) — Sampled: 11/22/24 12:32 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	ND		0.0050	ug/l	1	11/28/24	

Sample: MW-57B-112224

4K26051-05 (Water) — Sampled: 11/22/24 11:35 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	0.023		0.0050	ug/l	1	11/28/24	

Sample: MW-59B-112224

4K26051-06 (Water) — Sampled: 11/22/24 13:43 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	0.0083		0.0050	ug/l	1	11/28/24	

Sample: MW-61A-112224

4K26051-07 (Water) — Sampled: 11/22/24 9:47 by DG

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K2200 **Preparation:** EPA 5030B			**Prepared:** 11/27/24 08:12				**Analyst:** JAN
1,2,3-Trichloropropane	0.017		0.0050	ug/l	1	11/28/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4K2200 - EPA 5030B										
Blank (W4K2200-BLK1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4K2200-BS1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0236	0.0050	ug/l	0.0200		118	80-120			
LCS Dup (W4K2200-BSD1)			Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	0.0227	0.0050	ug/l	0.0200		114	80-120	4	20	
Duplicate (W4K2200-DUP1)	Source: 4K21096-09		Prepared: 11/27/24 Analyzed: 11/28/24							
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Haley & Aldrich

SITE: Cooper Drum
South Gate, CA

CONDUCT ANALYSIS TO DETECT

LAB:
American Analytics /
Weck Laboratories, inc.

COC 1 of 1

Send Reports to:
Kelly Hoggan, PG 9026 (CA)
Project Manager
Senior Technical Specialist - Geologist
Haley & Aldrich, Inc.
3187 Red Hill Avenue | Suite 155
Costa Mesa, CA 92626
T: 714.371.1828
C: 714.709.3072
www.haleyaldrich.com

29742

874675/4K25019

SAMPLE I.D.	DATE	TIME	MATRIX (AQ= Water)	CONTAINERS #	Preservation	Type	VOC's by 8260	1,4-Dioxane by EPA 8270SIM	1, 2, 3-TCP by 524 SIM	Dissolved Mn (filter in lab) SM3125	MS/MSD	Level 4 QAQC package	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
QC19-112224	11/22/24	1237	AQ	7	HCl/Ascorbic	VOA/AG	X	X	X			X				4K25019-01
MW-19-112224		0804		7			X	X	X			X				-02
MW-25-112224		0914		10			X	X	X	X		X				-03
MW-29A-112224		1232		7			X	X	X			X				-04
MW-57B-112224		1135		7			X	X	X			X				-05
MW-59B-112224		1343		7			X	X	X			X				-06
MW-61A-112224		0947		7			X	X	X			X				-07

REVIEWED Date 11/24/24 Time 0829 Days TAT 4 Sign

SAMPLE INTEGRITY INTACT (Y) N TEMP 18°C

24 NOV 25 16:53

	DATE	TIME
SAMPLING COMPLETED	11/22/23	1500

SAMPLING PERFORMED BY DG

RESULTS NEEDED NO LATER THAN: Standard

	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	12:00		11/25/24	12:00
RELEASED BY	16:23		11/25/24	1633
RELEASED BY	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	TIME SENT	COOLER #

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

July 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874662 / 4G03014

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/03/24 17:07 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-070324	4G03014-01	Water	10	07/03/24 10:55	07/03/24 17:07
TOTAL-EFF-070324	4G03014-02	Water	10	07/03/24 11:00	07/03/24 17:07
8270CM 1,4-Dioxane Only					
HT-INF-070324	4G03014-01	Water	10	07/03/24 10:55	07/03/24 17:07
TOTAL-EFF-070324	4G03014-02	Water	10	07/03/24 11:00	07/03/24 17:07

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874662
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	07/03/24	07/03/24		
Date Prepared:	07/09/24	07/09/24		
Date Analyzed:	07/09/24	07/09/24		
AA ID No:	4G03014-01	4G03014-02		
Client ID No:	HT-INF-070324	TOTAL-EFF-070324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**4.8**	**4.6**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	65.0%	67.9%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874662
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	07/03/24	07/03/24		
Date Prepared:	07/08/24	07/08/24		
Date Analyzed:	07/08/24	07/08/24		
AA ID No:	4G03014-01	4G03014-02		
Client ID No:	HT-INF-070324	TOTAL-EFF-070324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**1.3**	**1.5**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24
Units: ug/L

Date Sampled:	07/03/24	07/03/24		
Date Prepared:	07/08/24	07/08/24		
Date Analyzed:	07/08/24	07/08/24		
AA ID No:	4G03014-01	4G03014-02		
Client ID No:	HT-INF-070324	TOTAL-EFF-070324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50
1,1-Dichloroethane	**0.45 J**	**0.53**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.2**	**2.4**	0.20	0.50
cis-1,2-Dichloroethylene	**36**	**37**	0.30	0.50
1,1-Dichloroethylene	**0.44 J**	**0.56**	0.40	0.50
trans-1,2-Dichloroethylene	**8.0**	**8.2**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874662
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/18/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	07/03/24	07/03/24		
Date Prepared:	07/08/24	07/08/24		
Date Analyzed:	07/08/24	07/08/24		
AA ID No:	4G03014-01	4G03014-02		
Client ID No:	HT-INF-070324	TOTAL-EFF-070324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.73**	**0.76**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**1.9**	**1.8**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	99.5%	99.3%		80-129
Dibromofluoromethane	90.9%	89.5%		68-137
Toluene-d8	100%	100%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4G0922 - EPA 3510C_MS										
Blank (B4G0922-BLK1)				Prepared & Analyzed: 07/09/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*131*		*ug/L*	*200*		*65.3*	*50-150*			
LCS (B4G0922-BS1)				Prepared & Analyzed: 07/09/24						
1,4-Dioxane	**41.6**	0.50	ug/L	40.0		104	75-125			
Surrogate: 1,4-Dioxane-d8	*154*		*ug/L*	*200*		*77.1*	*50-150*			
LCS Dup (B4G0922-BSD1)				Prepared & Analyzed: 07/09/24						
1,4-Dioxane	**44.0**	0.50	ug/L	40.0		110	75-125	5.61	30	
Surrogate: 1,4-Dioxane-d8	*133*		*ug/L*	*200*		*66.3*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Blank (B4G0824-BLK1)				Prepared & Analyzed: 07/08/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Blank (B4G0824-BLK1) Continued				Prepared & Analyzed: 07/08/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Blank (B4G0824-BLK1) Continued				Prepared & Analyzed: 07/08/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.8*		*ug/L*	*50.0*		*97.7*	*80-129*			
Surrogate: Dibromofluoromethane	*44.6*		*ug/L*	*50.0*		*89.3*	*68-137*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.0*		*98.6*	*83-134*			
LCS (B4G0824-BS1)				Prepared & Analyzed: 07/08/24						
Acetone	**16.8**	7.7	ug/L	20.0		84.0	27-123			J
Benzene	**18.1**	0.40	ug/L	20.0		90.3	60-134			
Bromobenzene	**18.8**	0.40	ug/L	20.0		93.8	70-130			
Bromochloromethane	**17.2**	0.20	ug/L	20.0		85.8	78-121			
Bromodichloromethane	**17.6**	0.40	ug/L	20.0		88.2	74-135			
Bromoform	**18.5**	0.40	ug/L	20.0		92.6	68-132			
Bromomethane	**18.9**	0.30	ug/L	20.0		94.6	58-142			
2-Butanone (MEK)	**16.4**	8.6	ug/L	20.0		81.9	62-138			J
tert-Butylbenzene	**19.9**	0.20	ug/L	20.0		99.4	70-130			
n-Butylbenzene	**21.3**	0.20	ug/L	20.0		106	70-130			
sec-Butylbenzene	**20.9**	0.20	ug/L	20.0		105	84-142			



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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
LCS (B4G0824-BS1) Continued				Prepared & Analyzed: 07/08/24						
Carbon Disulfide	**17.5**	0.20	ug/L	20.0		87.5	17-177			
Carbon Tetrachloride	**18.0**	0.30	ug/L	20.0		90.0	66-155			
Chlorobenzene	**19.7**	0.40	ug/L	20.0		98.5	70-130			
Chloroethane	**20.1**	0.40	ug/L	20.0		100	45-166			
Chloroform	**17.9**	0.30	ug/L	20.0		89.7	71-131			
Chloromethane	**21.5**	0.40	ug/L	20.0		108	48-152			
4-Chlorotoluene	**20.0**	0.20	ug/L	20.0		100	70-130			
2-Chlorotoluene	**20.1**	0.20	ug/L	20.0		101	70-130			
1,2-Dibromo-3-chloropropane	**15.4**	0.40	ug/L	20.0		77.0	53-145			
Dibromochloromethane	**18.2**	0.40	ug/L	20.0		91.1	72-133			
1,2-Dibromoethane (EDB)	**17.9**	0.40	ug/L	20.0		89.4	79-120			
Dibromomethane	**16.7**	0.40	ug/L	20.0		83.4	68-124			
1,3-Dichlorobenzene	**19.2**	0.40	ug/L	20.0		96.2	70-130			
1,4-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.2	70-130			
1,2-Dichlorobenzene	**18.8**	0.30	ug/L	20.0		94.0	70-130			
Dichlorodifluoromethane (R12)	**21.6**	0.40	ug/L	20.0		108	16-148			
1,1-Dichloroethane	**18.1**	0.20	ug/L	20.0		90.3	67-120			
1,2-Dichloroethane (EDC)	**17.3**	0.20	ug/L	20.0		86.6	57-156			
cis-1,2-Dichloroethylene	**18.2**	0.30	ug/L	20.0		90.8	70-124			
1,1-Dichloroethylene	**17.9**	0.40	ug/L	20.0		89.5	50-149			
trans-1,2-Dichloroethylene	**18.0**	0.30	ug/L	20.0		90.2	66-126			
1,3-Dichloropropane	**18.3**	0.40	ug/L	20.0		91.5	79-113			
1,2-Dichloropropane	**17.4**	0.30	ug/L	20.0		87.0	53-139			
2,2-Dichloropropane	**18.4**	0.30	ug/L	20.0		92.0	44-162			
trans-1,3-Dichloropropylene	**18.8**	0.30	ug/L	20.0		93.8	76-121			
1,1-Dichloropropylene	**18.4**	0.30	ug/L	20.0		91.8	84-124			
cis-1,3-Dichloropropylene	**17.7**	0.40	ug/L	20.0		88.6	67-127			
Ethylbenzene	**20.4**	0.30	ug/L	20.0		102	86-124			
Hexachlorobutadiene	**21.9**	0.50	ug/L	20.0		109	76-140			
2-Hexanone (MBK)	**15.3**	8.4	ug/L	20.0		76.5	52-123			J
Isopropylbenzene	**20.8**	0.30	ug/L	20.0		104	70-130			
4-Isopropyltoluene	**20.7**	0.30	ug/L	20.0		104	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
LCS (B4G0824-BS1) Continued				Prepared & Analyzed: 07/08/24						
Methyl-tert-Butyl Ether (MTBE)	**32.8**	1.2	ug/L	40.0		81.9	58-144			
Methylene Chloride	**18.2**	4.4	ug/L	20.0		91.2	50-135			
4-Methyl-2-pentanone (MIBK)	**14.3**	9.8	ug/L	20.0		71.6	49-139			J
Naphthalene	**16.1**	0.40	ug/L	20.0		80.5	74-128			
n-Propylbenzene	**21.7**	0.20	ug/L	20.0		108	70-130			
Styrene	**19.3**	0.20	ug/L	20.0		96.7	84-123			
1,1,1,2-Tetrachloroethane	**18.6**	0.30	ug/L	20.0		93.1	70-130			
1,1,2,2-Tetrachloroethane	**17.7**	0.40	ug/L	20.0		88.4	58-126			
Tetrachloroethylene (PCE)	**19.6**	0.50	ug/L	20.0		98.0	70-130			
Toluene	**19.4**	0.20	ug/L	20.0		96.8	83-118			
1,2,4-Trichlorobenzene	**19.7**	0.30	ug/L	20.0		98.4	84-128			
1,2,3-Trichlorobenzene	**18.6**	0.50	ug/L	20.0		93.1	77-134			
1,1,2-Trichloroethane	**18.3**	0.30	ug/L	20.0		91.6	75-115			
1,1,1-Trichloroethane	**18.5**	0.30	ug/L	20.0		92.4	66-158			
Trichloroethylene (TCE)	**18.0**	0.30	ug/L	20.0		90.2	82-128			
Trichlorofluoromethane (R11)	**19.6**	0.40	ug/L	20.0		98.1	65-137			
1,2,3-Trichloropropane	**16.8**	0.20	ug/L	20.0		83.9	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**14.1**	0.30	ug/L	20.0		70.6	62-130			
1,2,4-Trimethylbenzene	**20.1**	0.30	ug/L	20.0		101	70-130			
1,3,5-Trimethylbenzene	**20.3**	0.20	ug/L	20.0		102	70-130			
Vinyl chloride	**24.3**	0.40	ug/L	20.0		122	51-151			
o-Xylene	**19.4**	0.30	ug/L	20.0		97.2	70-130			
m,p-Xylenes	**39.1**	0.60	ug/L	40.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*47.2*		*ug/L*	*50.0*		*94.4*	*80-129*			
Surrogate: Dibromofluoromethane	*44.8*		*ug/L*	*50.0*		*89.6*	*68-137*			
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96.0*	*83-134*			
LCS Dup (B4G0824-BSD1)				Prepared: 07/08/24 Analyzed: 07/09/24						
Acetone	**18.6**	7.7	ug/L	20.0		93.2	27-123	10.3	30	J
Benzene	**19.3**	0.40	ug/L	20.0		96.6	60-134	6.69	30	
Bromobenzene	**20.0**	0.40	ug/L	20.0		100	70-130	6.40	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
LCS Dup (B4G0824-BSD1) Continued				Prepared: 07/08/24 Analyzed: 07/09/24						
Bromochloromethane	**17.6**	0.20	ug/L	20.0		88.2	78-121	2.64	30	
Bromodichloromethane	**19.7**	0.40	ug/L	20.0		98.6	74-135	11.2	30	
Bromoform	**18.3**	0.40	ug/L	20.0		91.4	68-132	1.41	30	
Bromomethane	**23.7**	0.30	ug/L	20.0		118	58-142	22.4	30	
2-Butanone (MEK)	**16.8**	8.6	ug/L	20.0		84.0	62-138	2.47	30	J
tert-Butylbenzene	**21.0**	0.20	ug/L	20.0		105	70-130	5.38	30	
n-Butylbenzene	**22.3**	0.20	ug/L	20.0		112	70-130	4.77	30	
sec-Butylbenzene	**22.3**	0.20	ug/L	20.0		111	84-142	6.20	30	
Carbon Disulfide	**17.8**	0.20	ug/L	20.0		89.2	17-177	1.98	30	
Carbon Tetrachloride	**19.0**	0.30	ug/L	20.0		95.2	66-155	5.72	30	
Chlorobenzene	**20.2**	0.40	ug/L	20.0		101	70-130	2.70	30	
Chloroethane	**25.1**	0.40	ug/L	20.0		125	45-166	22.0	30	
Chloroform	**20.0**	0.30	ug/L	20.0		99.8	71-131	10.6	30	
Chloromethane	**25.7**	0.40	ug/L	20.0		129	48-152	17.9	30	
4-Chlorotoluene	**21.1**	0.20	ug/L	20.0		106	70-130	5.25	30	
2-Chlorotoluene	**21.4**	0.20	ug/L	20.0		107	70-130	6.25	30	
1,2-Dibromo-3-chloropropane	**17.5**	0.40	ug/L	20.0		87.5	53-145	12.8	30	
Dibromochloromethane	**18.5**	0.40	ug/L	20.0		92.7	72-133	1.74	30	
1,2-Dibromoethane (EDB)	**18.8**	0.40	ug/L	20.0		94.2	79-120	5.17	30	
Dibromomethane	**19.7**	0.40	ug/L	20.0		98.6	68-124	16.7	30	
1,3-Dichlorobenzene	**19.8**	0.40	ug/L	20.0		99.0	70-130	2.87	30	
1,4-Dichlorobenzene	**19.3**	0.30	ug/L	20.0		96.5	70-130	1.36	30	
1,2-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.0	70-130	1.16	30	
Dichlorodifluoromethane (R12)	**23.6**	0.40	ug/L	20.0		118	16-148	8.54	30	
1,1-Dichloroethane	**18.7**	0.20	ug/L	20.0		93.6	67-120	3.54	30	
1,2-Dichloroethane (EDC)	**20.2**	0.20	ug/L	20.0		101	57-156	15.3	30	
cis-1,2-Dichloroethylene	**18.8**	0.30	ug/L	20.0		94.2	70-124	3.68	30	
1,1-Dichloroethylene	**17.9**	0.40	ug/L	20.0		89.4	50-149	0.168	30	
trans-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		88.8	66-126	1.56	30	
1,3-Dichloropropane	**19.5**	0.40	ug/L	20.0		97.7	79-113	6.55	30	
1,2-Dichloropropane	**19.6**	0.30	ug/L	20.0		98.2	53-139	12.1	30	
2,2-Dichloropropane	**17.6**	0.30	ug/L	20.0		88.2	44-162	4.22	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
LCS Dup (B4G0824-BSD1) Continued				Prepared: 07/08/24 Analyzed: 07/09/24						
trans-1,3-Dichloropropylene	**18.8**	0.30	ug/L	20.0		94.2	76-121	0.425	30	
1,1-Dichloropropylene	**19.7**	0.30	ug/L	20.0		98.4	84-124	6.89	30	
cis-1,3-Dichloropropylene	**18.8**	0.40	ug/L	20.0		94.2	67-127	6.02	30	
Ethylbenzene	**21.5**	0.30	ug/L	20.0		108	86-124	5.15	30	
Hexachlorobutadiene	**20.7**	0.50	ug/L	20.0		104	76-140	5.45	30	
2-Hexanone (MBK)	**16.7**	8.4	ug/L	20.0		83.5	52-123	8.75	30	J
Isopropylbenzene	**22.4**	0.30	ug/L	20.0		112	70-130	7.18	30	
4-Isopropyltoluene	**21.3**	0.30	ug/L	20.0		106	70-130	2.57	30	
Methyl-tert-Butyl Ether (MTBE)	**30.9**	1.2	ug/L	40.0		77.2	58-144	5.97	30	
Methylene Chloride	**18.9**	4.4	ug/L	20.0		94.6	50-135	3.61	30	
4-Methyl-2-pentanone (MIBK)	**15.1**	9.8	ug/L	20.0		75.6	49-139	5.57	30	J
Naphthalene	**16.8**	0.40	ug/L	20.0		84.0	74-128	4.20	30	
n-Propylbenzene	**23.9**	0.20	ug/L	20.0		119	70-130	9.67	30	
Styrene	**19.6**	0.20	ug/L	20.0		98.2	84-123	1.49	30	
1,1,1,2-Tetrachloroethane	**19.1**	0.30	ug/L	20.0		95.4	70-130	2.39	30	
1,1,2,2-Tetrachloroethane	**19.4**	0.40	ug/L	20.0		97.1	58-126	9.38	30	
Tetrachloroethylene (PCE)	**19.9**	0.50	ug/L	20.0		99.4	70-130	1.37	30	
Toluene	**20.6**	0.20	ug/L	20.0		103	83-118	6.30	30	
1,2,4-Trichlorobenzene	**17.9**	0.30	ug/L	20.0		89.6	84-128	9.31	30	
1,2,3-Trichlorobenzene	**17.7**	0.50	ug/L	20.0		88.4	77-134	5.24	30	
1,1,2-Trichloroethane	**19.9**	0.30	ug/L	20.0		99.4	75-115	8.12	30	
1,1,1-Trichloroethane	**20.1**	0.30	ug/L	20.0		101	66-158	8.39	30	
Trichloroethylene (TCE)	**20.4**	0.30	ug/L	20.0		102	82-128	12.5	30	
Trichlorofluoromethane (R11)	**23.0**	0.40	ug/L	20.0		115	65-137	15.9	30	
1,2,3-Trichloropropane	**17.8**	0.20	ug/L	20.0		89.0	68-123	5.90	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.0**	0.30	ug/L	20.0		74.9	62-130	5.84	30	
1,2,4-Trimethylbenzene	**21.1**	0.30	ug/L	20.0		105	70-130	4.62	30	
1,3,5-Trimethylbenzene	**21.3**	0.20	ug/L	20.0		107	70-130	4.80	30	
Vinyl chloride	**27.4**	0.40	ug/L	20.0		137	51-151	11.9	30	
o-Xylene	**20.2**	0.30	ug/L	20.0		101	70-130	3.74	30	
m,p-Xylenes	**40.6**	0.60	ug/L	40.0		101	70-130	3.59	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
LCS Dup (B4G0824-BSD1) Continued				Prepared: 07/08/24 Analyzed: 07/09/24						
Surrogate: 4-Bromofluorobenzene	*48.9*		*ug/L*	*50.0*		*97.9*	*80-129*			
Surrogate: Dibromofluoromethane	*46.1*		*ug/L*	*50.0*		*92.2*	*68-137*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*99.7*	*83-134*			
Matrix Spike (B4G0824-MS1)		**Source: 4G03014-01**		Prepared & Analyzed: 07/08/24						
Acetone	**18.4**	7.7	ug/L	20.0	<50	91.8	11-169			J
Benzene	**20.2**	0.40	ug/L	20.0	1.30	94.4	56-135			
Bromobenzene	**18.8**	0.40	ug/L	20.0	<0.50	93.8	70-130			
Bromochloromethane	**16.6**	0.20	ug/L	20.0	<0.50	83.2	74-125			
Bromodichloromethane	**18.4**	0.40	ug/L	20.0	<0.50	92.0	68-144			
Bromoform	**17.5**	0.40	ug/L	20.0	<0.50	87.6	68-151			
Bromomethane	**22.4**	0.30	ug/L	20.0	<0.50	112	54-142			
2-Butanone (MEK)	**18.4**	8.6	ug/L	20.0	<20	91.9	62-145			J
tert-Butylbenzene	**19.9**	0.20	ug/L	20.0	<0.50	99.4	70-130			
n-Butylbenzene	**21.4**	0.20	ug/L	20.0	<0.50	107	70-130			
sec-Butylbenzene	**21.3**	0.20	ug/L	20.0	<0.50	107	84-145			
Carbon Disulfide	**18.3**	0.20	ug/L	20.0	<0.50	91.5	28-151			
Carbon Tetrachloride	**18.3**	0.30	ug/L	20.0	<0.50	91.5	58-164			
Chlorobenzene	**19.3**	0.40	ug/L	20.0	<0.50	96.7	70-130			
Chloroethane	**25.8**	0.40	ug/L	20.0	<0.50	129	42-164			
Chloroform	**19.2**	0.30	ug/L	20.0	<0.50	95.9	65-138			
Chloromethane	**23.2**	0.40	ug/L	20.0	<0.50	116	50-152			
4-Chlorotoluene	**20.3**	0.20	ug/L	20.0	<0.50	101	70-130			
2-Chlorotoluene	**20.5**	0.20	ug/L	20.0	<0.50	103	70-130			
1,2-Dibromo-3-chloropropane	**17.4**	0.40	ug/L	20.0	<1.0	86.8	53-161			
Dibromochloromethane	**17.9**	0.40	ug/L	20.0	<0.50	89.4	70-130			
1,2-Dibromoethane (EDB)	**17.5**	0.40	ug/L	20.0	<0.50	87.6	76-130			
Dibromomethane	**17.6**	0.40	ug/L	20.0	<0.50	87.8	62-135			
1,3-Dichlorobenzene	**19.2**	0.40	ug/L	20.0	<0.50	96.0	70-130			
1,4-Dichlorobenzene	**18.8**	0.30	ug/L	20.0	<0.50	93.8	70-130			
1,2-Dichlorobenzene	**18.8**	0.30	ug/L	20.0	<0.50	94.2	70-130			
Dichlorodifluoromethane (R12)	**23.8**	0.40	ug/L	20.0	<0.50	119	17-153			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Matrix Spike (B4G0824-MS1) Continued Source: 4G03014-01 Prepared & Analyzed: 07/08/24										
1,1-Dichloroethane	**19.3**	0.20	ug/L	20.0	0.450	94.3	55-131			
1,2-Dichloroethane (EDC)	**20.5**	0.20	ug/L	20.0	2.22	91.6	52-168			
cis-1,2-Dichloroethylene	**63.1**	0.30	ug/L	20.0	35.7	137	70-130			QM-07
1,1-Dichloroethylene	**19.4**	0.40	ug/L	20.0	0.440	95.0	51-140			
trans-1,2-Dichloroethylene	**28.8**	0.30	ug/L	20.0	8.04	104	59-127			
1,3-Dichloropropane	**18.1**	0.40	ug/L	20.0	<0.50	90.6	80-121			
1,2-Dichloropropane	**18.9**	0.30	ug/L	20.0	<0.50	94.6	52-142			
2,2-Dichloropropane	**16.6**	0.30	ug/L	20.0	<0.50	82.9	36-168			
trans-1,3-Dichloropropylene	**17.6**	0.30	ug/L	20.0	<0.50	87.8	78-130			
1,1-Dichloropropylene	**19.1**	0.30	ug/L	20.0	<0.50	95.6	76-132			
cis-1,3-Dichloropropylene	**17.7**	0.40	ug/L	20.0	<0.50	88.4	66-130			
Ethylbenzene	**20.8**	0.30	ug/L	20.0	<0.50	104	86-128			
Hexachlorobutadiene	**19.7**	0.50	ug/L	20.0	<1.0	98.6	70-130			
2-Hexanone (MBK)	**15.7**	8.4	ug/L	20.0	<20	78.6	52-141			J
Isopropylbenzene	**20.9**	0.30	ug/L	20.0	<0.50	105	70-130			
4-Isopropyltoluene	**20.4**	0.30	ug/L	20.0	<1.0	102	83-149			
Methyl-tert-Butyl Ether (MTBE)	**27.7**	1.2	ug/L	40.0	<2.0	69.3	56-150			
Methylene Chloride	**19.8**	4.4	ug/L	20.0	<5.0	99.2	70-130			
4-Methyl-2-pentanone (MIBK)	**15.0**	9.8	ug/L	20.0	<20	74.8	60-148			J
Naphthalene	**16.9**	0.40	ug/L	20.0	<2.0	84.4	70-130			
n-Propylbenzene	**22.4**	0.20	ug/L	20.0	<0.50	112	70-130			
Styrene	**19.5**	0.20	ug/L	20.0	<0.50	97.5	65-141			
1,1,1,2-Tetrachloroethane	**18.6**	0.30	ug/L	20.0	<0.50	92.8	70-130			
1,1,2,2-Tetrachloroethane	**18.3**	0.40	ug/L	20.0	<0.50	91.7	62-134			
Tetrachloroethylene (PCE)	**19.4**	0.50	ug/L	20.0	<0.50	96.8	70-130			
Toluene	**19.9**	0.20	ug/L	20.0	<0.50	99.3	81-123			
1,2,4-Trichlorobenzene	**17.6**	0.30	ug/L	20.0	<0.50	87.8	80-137			
1,2,3-Trichlorobenzene	**16.9**	0.50	ug/L	20.0	<0.50	84.6	73-144			
1,1,2-Trichloroethane	**18.5**	0.30	ug/L	20.0	<0.50	92.5	76-122			
1,1,1-Trichloroethane	**19.1**	0.30	ug/L	20.0	<0.50	95.5	62-164			
Trichloroethylene (TCE)	**20.2**	0.30	ug/L	20.0	0.730	97.2	72-136			
Trichlorofluoromethane (R11)	**22.5**	0.40	ug/L	20.0	<0.50	112	59-144			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Matrix Spike (B4G0824-MS1) Continued Source: 4G03014-01 Prepared & Analyzed: 07/08/24										
1,2,3-Trichloropropane	**17.1**	0.20	ug/L	20.0	<0.50	85.4	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**14.6**	0.30	ug/L	20.0	<0.50	72.8	62-126			
1,2,4-Trimethylbenzene	**20.3**	0.30	ug/L	20.0	<0.50	102	89-134			
1,3,5-Trimethylbenzene	**20.3**	0.20	ug/L	20.0	<0.50	102	70-130			
Vinyl chloride	**28.5**	0.40	ug/L	20.0	1.91	133	54-150			
o-Xylene	**19.5**	0.30	ug/L	20.0	<0.50	97.3	70-130			
m,p-Xylenes	**39.0**	0.60	ug/L	40.0	<1.0	97.5	70-130			
Surrogate: 4-Bromofluorobenzene	*48.6*		*ug/L*	*50.0*		*97.1*	*80-129*			
Surrogate: Dibromofluoromethane	*46.9*		*ug/L*	*50.0*		*93.9*	*68-137*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.8*	*83-134*			
Matrix Spike Dup (B4G0824-MSD1) **Source: 4G03014-01** Prepared & Analyzed: 07/08/24										
Acetone	**22.3**	7.7	ug/L	20.0	<50	111	11-169	19.3	30	J
Benzene	**19.9**	0.40	ug/L	20.0	1.30	93.2	56-135	1.30	30	
Bromobenzene	**17.9**	0.40	ug/L	20.0	<0.50	89.4	70-130	4.80	30	
Bromochloromethane	**18.4**	0.20	ug/L	20.0	<0.50	92.2	74-125	10.3	30	
Bromodichloromethane	**19.6**	0.40	ug/L	20.0	<0.50	98.2	68-144	6.52	30	
Bromoform	**18.9**	0.40	ug/L	20.0	<0.50	94.6	68-151	7.74	30	
Bromomethane	**23.5**	0.30	ug/L	20.0	<0.50	118	54-142	4.75	30	
2-Butanone (MEK)	**23.6**	8.6	ug/L	20.0	<20	118	62-145	24.9	30	
tert-Butylbenzene	**17.6**	0.20	ug/L	20.0	<0.50	87.9	70-130	12.3	30	
n-Butylbenzene	**18.8**	0.20	ug/L	20.0	<0.50	94.1	70-130	12.7	30	
sec-Butylbenzene	**18.8**	0.20	ug/L	20.0	<0.50	94.0	84-145	12.6	30	
Carbon Disulfide	**15.7**	0.20	ug/L	20.0	<0.50	78.4	28-151	15.4	30	
Carbon Tetrachloride	**17.1**	0.30	ug/L	20.0	<0.50	85.6	58-164	6.60	30	
Chlorobenzene	**17.6**	0.40	ug/L	20.0	<0.50	88.0	70-130	9.36	30	
Chloroethane	**24.9**	0.40	ug/L	20.0	<0.50	124	42-164	3.59	30	
Chloroform	**19.0**	0.30	ug/L	20.0	<0.50	94.8	65-138	1.15	30	
Chloromethane	**25.0**	0.40	ug/L	20.0	<0.50	125	50-152	7.68	30	
4-Chlorotoluene	**18.5**	0.20	ug/L	20.0	<0.50	92.4	70-130	9.34	30	
2-Chlorotoluene	**18.3**	0.20	ug/L	20.0	<0.50	91.7	70-130	11.2	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Matrix Spike Dup (B4G0824-MSD1) Continued	**Source: 4G03014-01** Prepared & Analyzed: 07/08/24									
1,2-Dibromo-3-chloropropane	**18.4**	0.40	ug/L	20.0	<1.0	92.1	53-161	5.98	30	
Dibromochloromethane	**17.9**	0.40	ug/L	20.0	<0.50	89.4	70-130	0.0559	30	
1,2-Dibromoethane (EDB)	**19.0**	0.40	ug/L	20.0	<0.50	94.8	76-130	7.84	30	
Dibromomethane	**20.3**	0.40	ug/L	20.0	<0.50	102	62-135	14.6	30	
1,3-Dichlorobenzene	**17.3**	0.40	ug/L	20.0	<0.50	86.5	70-130	10.4	30	
1,4-Dichlorobenzene	**17.5**	0.30	ug/L	20.0	<0.50	87.7	70-130	6.72	30	
1,2-Dichlorobenzene	**17.9**	0.30	ug/L	20.0	<0.50	89.6	70-130	4.90	30	
Dichlorodifluoromethane (R12)	**24.4**	0.40	ug/L	20.0	<0.50	122	17-153	2.57	30	
1,1-Dichloroethane	**18.8**	0.20	ug/L	20.0	0.450	92.0	55-131	2.41	30	
1,2-Dichloroethane (EDC)	**22.8**	0.20	ug/L	20.0	2.22	103	52-168	10.3	30	
cis-1,2-Dichloroethylene	**65.8**	0.30	ug/L	20.0	35.7	150	70-130	4.19	30	QM-07
1,1-Dichloroethylene	**17.1**	0.40	ug/L	20.0	0.440	83.5	51-140	12.6	30	
trans-1,2-Dichloroethylene	**27.5**	0.30	ug/L	20.0	8.04	97.2	59-127	4.65	30	
1,3-Dichloropropane	**19.0**	0.40	ug/L	20.0	<0.50	94.8	80-121	4.53	30	
1,2-Dichloropropane	**19.6**	0.30	ug/L	20.0	<0.50	98.0	52-142	3.53	30	
2,2-Dichloropropane	**15.3**	0.30	ug/L	20.0	<0.50	76.7	36-168	7.77	30	
trans-1,3-Dichloropropylene	**17.9**	0.30	ug/L	20.0	<0.50	89.3	78-130	1.75	30	
1,1-Dichloropropylene	**17.6**	0.30	ug/L	20.0	<0.50	88.2	76-132	8.00	30	
cis-1,3-Dichloropropylene	**18.8**	0.40	ug/L	20.0	<0.50	94.2	66-130	6.36	30	
Ethylbenzene	**18.5**	0.30	ug/L	20.0	<0.50	92.4	86-128	11.5	30	
Hexachlorobutadiene	**17.5**	0.50	ug/L	20.0	<1.0	87.4	70-130	12.1	30	
2-Hexanone (MBK)	**19.0**	8.4	ug/L	20.0	<20	95.0	52-141	19.0	30	J
Isopropylbenzene	**18.4**	0.30	ug/L	20.0	<0.50	92.2	70-130	12.7	30	
4-Isopropyltoluene	**18.0**	0.30	ug/L	20.0	<1.0	89.8	83-149	13.0	30	
Methyl-tert-Butyl Ether (MTBE)	**34.3**	1.2	ug/L	40.0	<2.0	85.7	56-150	21.2	30	
Methylene Chloride	**20.6**	4.4	ug/L	20.0	<5.0	103	70-130	3.61	30	
4-Methyl-2-pentanone (MIBK)	**17.6**	9.8	ug/L	20.0	<20	88.0	60-148	16.2	30	J
Naphthalene	**19.0**	0.40	ug/L	20.0	<2.0	95.0	70-130	11.9	30	
n-Propylbenzene	**19.8**	0.20	ug/L	20.0	<0.50	99.1	70-130	12.3	30	
Styrene	**18.0**	0.20	ug/L	20.0	<0.50	90.2	65-141	7.83	30	
1,1,1,2-Tetrachloroethane	**17.4**	0.30	ug/L	20.0	<0.50	87.2	70-130	6.11	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874662
Date Received: 07/03/24
Date Reported: 07/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4G0824 - EPA 5030B										
Matrix Spike Dup (B4G0824-MSD1) Continued	**Source: 4G03014-01** Prepared & Analyzed: 07/08/24									
1,1,2,2-Tetrachloroethane	**20.8**	0.40	ug/L	20.0	<0.50	104	62-134	12.7	30	
Tetrachloroethylene (PCE)	**16.3**	0.50	ug/L	20.0	<0.50	81.7	70-130	16.9	30	
Toluene	**17.2**	0.20	ug/L	20.0	<0.50	86.2	81-123	14.1	30	
1,2,4-Trichlorobenzene	**17.5**	0.30	ug/L	20.0	<0.50	87.4	80-137	0.342	30	
1,2,3-Trichlorobenzene	**18.5**	0.50	ug/L	20.0	<0.50	92.7	73-144	9.20	30	
1,1,2-Trichloroethane	**19.0**	0.30	ug/L	20.0	<0.50	95.2	76-122	2.82	30	
1,1,1-Trichloroethane	**18.0**	0.30	ug/L	20.0	<0.50	90.0	62-164	5.87	30	
Trichloroethylene (TCE)	**19.2**	0.30	ug/L	20.0	0.730	92.4	72-136	4.88	30	
Trichlorofluoromethane (R11)	**25.3**	0.40	ug/L	20.0	<0.50	126	59-144	11.7	30	
1,2,3-Trichloropropane	**20.0**	0.20	ug/L	20.0	<0.50	99.9	69-135	15.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**14.9**	0.30	ug/L	20.0	<0.50	74.7	62-126	2.51	30	
1,2,4-Trimethylbenzene	**18.4**	0.30	ug/L	20.0	<0.50	91.8	89-134	10.1	30	
1,3,5-Trimethylbenzene	**18.2**	0.20	ug/L	20.0	<0.50	91.2	70-130	10.8	30	
Vinyl chloride	**27.0**	0.40	ug/L	20.0	1.91	125	54-150	5.34	30	
o-Xylene	**17.4**	0.30	ug/L	20.0	<0.50	87.0	70-130	11.1	30	
m,p-Xylenes	**34.8**	0.60	ug/L	40.0	<1.0	86.9	70-130	11.4	30	
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*98.9*	*80-129*			
Surrogate: Dibromofluoromethane	*52.2*		*ug/L*	*50.0*		*104*	*68-137*			
Surrogate: Toluene-d8	*47.4*		*ug/L*	*50.0*		*94.9*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874662
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4G08109

Project Name: American Analytics
Project Number: A874662/4G03014

P.O. #: SUB04796-A874662

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 7/17/2024
Received Date: 7/8/2024 1:40 pm
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4G03014-01

4G08109-01 (Water) — Sampled: 07/03/24 10:55 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4G0519 **Preparation:** EPA 5030B				**Prepared:** 07/09/24 07:53			**Analyst:** ADM
1,2,3-Trichloropropane	0.043		0.0050	ug/l	1	07/09/24	

Sample: 4G03014-02

4G08109-02 (Water) — Sampled: 07/03/24 11:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4G0519 **Preparation:** EPA 5030B				**Prepared:** 07/09/24 07:53			**Analyst:** ADM
1,2,3-Trichloropropane	0.045		0.0050	ug/l	1	07/09/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4G0519 - EPA 5030B										
Blank (W4G0519-BLK1)				Prepared & Analyzed: 07/09/24						
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W4G0519-BS1)				Prepared & Analyzed: 07/09/24						
1,2,3-Trichloropropane	0.0186	0.0050	ug/l	0.0200		93	80-120			
LCS Dup (W4G0519-BSD1)				Prepared & Analyzed: 07/09/24						
1,2,3-Trichloropropane	0.0176	0.0050	ug/l	0.0200		88	80-120	6	20	
Duplicate (W4G0519-DUP1)	Source: 4G08039-01			Prepared & Analyzed: 07/09/24						
1,2,3-Trichloropropane	ND	0.0050	ug/l		*ND*				20	

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

Wack

4G03109

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

A.A. COC No.: 20201016

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

Client: AMERICAN ANALYTICS | Project Name / No.: A874662 / 4G03014 | Sampler's Name:

Project Manager: Viorel Vasile | Site Address: | Sampler's Signature:

Phone: | City: | P.O. No.: SUB04796-A874662

Fax: | State & Zip: | Quote No.:

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	1,4,2,3-TCP	Special Instructions
4G03014-01		7/3/24	1055	Water	3	X	• EQuIS add
-02		"	1100	"	3	X	Normal TAT
							Thank ya

Please enter the TAT Turnaround Codes ** below

For Laboratory Use

* Sample arrived high temp -UB 07/05/24

F0306/8.ci

A.A. Project No.:

Relinquished by	Date	Time	Received by
	7/5/24	1:40	CSA
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **4G08109** Date/Time Received: 07/08/24 @ 13:40

WKO Logged by: Jerico Bolotano # of Samples: 02

Samples Checked by: Jerico Bolotano Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	8°C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	Blue			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐ <6mm/Pea size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	☐	☐	☒	pH paper Lot#
	Free Chlorine Tested <0.1 (Organic Analyses)	☐	☐	☒	Cl Test Strip Lot#
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added
	Project Manager notified about sample preservation?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Prepared by:

Signature: *Jerico Bolotano* Date: 07/08/24

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 287944
70036596
Page 1 of 1

Client: Haley & Aldrich	Project Name / No.: Cooper Drive	Sampler's Name: Jon Sporck	
Project Manager: Chris Tomasso	Site Address: 9313 Rayo Ave	Sampler's Signature:	
Phone: 714 371 1820	City: Southgate	P.O. No.:	
Fax:	State & Zip: CA 90280	Quote No.:	

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260B	8270 1-MD	5645M 1,2,3 TCP									Special Instructions
HS-WF-070324	746-03014-01	7/3/24	1055	W	7	D	B	X	X								
HS-TGTC-EFF-070324	746-03014-02	-"-	1100	W	7	D	B	X	X								
																	'24 JUL 3 17:47

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 7/5/24 Time 0945 TAT N Days Sign:		7/3/24	1107	
	Relinquished by	7/3/24	1707	Received by
A.A. Project No.: A8-74662/746-03014	Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

August 21, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874665 / 4H06020

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/24 17:10 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-080624	4H06020-01	Water	10	08/06/24 08:10	08/06/24 17:10
TOTAL-EFF-080624	4H06020-02	Water	10	08/06/24 08:15	08/06/24 17:10
8270CM 1,4-Dioxane Only					
HT-INF-080624	4H06020-01	Water	10	08/06/24 08:10	08/06/24 17:10
TOTAL-EFF-080624	4H06020-02	Water	10	08/06/24 08:15	08/06/24 17:10

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874665
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/21/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	08/06/24	08/06/24		
Date Prepared:	08/06/24	08/06/24		
Date Analyzed:	08/07/24	08/07/24		
AA ID No:	4H06020-01	4H06020-02		
Client ID No:	HT-INF-080624	TOTAL-EFF-080624		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**4.0**	**2.8**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	92.2%	100%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874665
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/21/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	08/06/24	08/06/24		
Date Prepared:	08/08/24	08/08/24		
Date Analyzed:	08/08/24	08/08/24		
AA ID No:	4H06020-01	4H06020-02		
Client ID No:	HT-INF-080624	TOTAL-EFF-080624		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**1.3**	**0.98**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874665
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/21/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	08/06/24	08/06/24		
Date Prepared:	08/08/24	08/08/24		
Date Analyzed:	08/08/24	08/08/24		
AA ID No:	4H06020-01	4H06020-02		
Client ID No:	HT-INF-080624	TOTAL-EFF-080624		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50
1,1-Dichloroethane	**0.43 J**	**0.38 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.4**	**2.2**	0.20	0.50
cis-1,2-Dichloroethylene	**41**	**36**	0.30	0.50
1,1-Dichloroethylene	**0.56**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**9.3**	**7.6**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874665
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/21/24
Method:	VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	08/06/24	08/06/24		
Date Prepared:	08/08/24	08/08/24		
Date Analyzed:	08/08/24	08/08/24		
AA ID No:	4H06020-01	4H06020-02		
Client ID No:	HT-INF-080624	TOTAL-EFF-080624		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.71**	**0.63**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**3.1**	**2.0**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0

Surrogates			**%REC Limits**
4-Bromofluorobenzene	103%	103%	80-129
Dibromofluoromethane	93.3%	91.0%	68-137
Toluene-d8	105%	105%	83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4H0615 - Solid Phase Extraction (SPE)										
Blank (B4H0615-BLK1)				Prepared: 08/06/24 Analyzed: 08/07/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*200*		*ug/L*	*200*		*100*	*50-150*			
LCS (B4H0615-BS1)				Prepared: 08/06/24 Analyzed: 08/07/24						
1,4-Dioxane	**41.2**	0.50	ug/L	40.0		103	75-125			
Surrogate: 1,4-Dioxane-d8	*200*		*ug/L*	*200*		*100*	*50-150*			
LCS Dup (B4H0615-BSD1)				Prepared: 08/06/24 Analyzed: 08/07/24						
1,4-Dioxane	**37.0**	0.50	ug/L	40.0		92.5	75-125	10.7	30	
Surrogate: 1,4-Dioxane-d8	*200*		*ug/L*	*200*		*100*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Blank (B4H0816-BLK1)				Prepared & Analyzed: 08/08/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Blank (B4H0816-BLK1) Continued				Prepared & Analyzed: 08/08/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	**0.740**	0.40	ug/L							J
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Blank (B4H0816-BLK1) Continued				Prepared & Analyzed: 08/08/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.6*		*ug/L*	*50.0*		*103*	*80-129*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.0*		*92.5*	*68-137*			
Surrogate: Toluene-d8	*51.9*		*ug/L*	*50.0*		*104*	*83-134*			
LCS (B4H0816-BS1)				Prepared & Analyzed: 08/08/24						
Acetone	**18.0**	7.7	ug/L	20.0		89.9	27-123			J
Benzene	**21.3**	0.40	ug/L	20.0		107	60-134			
Bromobenzene	**21.0**	0.40	ug/L	20.0		105	70-130			
Bromochloromethane	**19.2**	0.20	ug/L	20.0		95.9	78-121			
Bromodichloromethane	**23.5**	0.40	ug/L	20.0		118	74-135			
Bromoform	**19.2**	0.40	ug/L	20.0		96.2	68-132			
Bromomethane	**24.8**	0.30	ug/L	20.0		124	58-142			
2-Butanone (MEK)	**18.6**	8.6	ug/L	20.0		93.0	62-138			J
tert-Butylbenzene	**23.8**	0.20	ug/L	20.0		119	70-130			
n-Butylbenzene	**25.8**	0.20	ug/L	20.0		129	70-130			
sec-Butylbenzene	**25.0**	0.20	ug/L	20.0		125	84-142			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
LCS (B4H0816-BS1) Continued				Prepared & Analyzed: 08/08/24						
Carbon Disulfide	**18.7**	0.20	ug/L	20.0		93.4	17-177			
Carbon Tetrachloride	**23.8**	0.30	ug/L	20.0		119	66-155			
Chlorobenzene	**22.8**	0.40	ug/L	20.0		114	70-130			
Chloroethane	**25.9**	0.40	ug/L	20.0		130	45-166			
Chloroform	**23.5**	0.30	ug/L	20.0		118	71-131			
Chloromethane	**24.1**	0.40	ug/L	20.0		120	48-152			
4-Chlorotoluene	**24.4**	0.20	ug/L	20.0		122	70-130			
2-Chlorotoluene	**24.7**	0.20	ug/L	20.0		124	70-130			
1,2-Dibromo-3-chloropropane	**18.0**	0.40	ug/L	20.0		89.8	53-145			
Dibromochloromethane	**20.3**	0.40	ug/L	20.0		101	72-133			
1,2-Dibromoethane (EDB)	**20.5**	0.40	ug/L	20.0		102	79-120			
Dibromomethane	**22.1**	0.40	ug/L	20.0		111	68-124			
1,3-Dichlorobenzene	**21.3**	0.40	ug/L	20.0		106	70-130			
1,4-Dichlorobenzene	**21.1**	0.30	ug/L	20.0		106	70-130			
1,2-Dichlorobenzene	**20.1**	0.30	ug/L	20.0		100	70-130			
Dichlorodifluoromethane (R12)	**24.6**	0.40	ug/L	20.0		123	16-148			
1,1-Dichloroethane	**21.2**	0.20	ug/L	20.0		106	67-120			
1,2-Dichloroethane (EDC)	**23.1**	0.20	ug/L	20.0		116	57-156			
cis-1,2-Dichloroethylene	**20.9**	0.30	ug/L	20.0		104	70-124			
1,1-Dichloroethylene	**20.0**	0.40	ug/L	20.0		100	50-149			
trans-1,2-Dichloroethylene	**20.4**	0.30	ug/L	20.0		102	66-126			
1,3-Dichloropropane	**20.6**	0.40	ug/L	20.0		103	79-113			
1,2-Dichloropropane	**20.1**	0.30	ug/L	20.0		101	53-139			
2,2-Dichloropropane	**23.7**	0.30	ug/L	20.0		119	44-162			
trans-1,3-Dichloropropylene	**22.3**	0.30	ug/L	20.0		112	76-121			
1,1-Dichloropropylene	**22.4**	0.30	ug/L	20.0		112	84-124			
cis-1,3-Dichloropropylene	**21.3**	0.40	ug/L	20.0		107	67-127			
Ethylbenzene	**24.7**	0.30	ug/L	20.0		124	86-124			
Hexachlorobutadiene	**22.3**	0.50	ug/L	20.0		111	76-140			
2-Hexanone (MBK)	**17.0**	8.4	ug/L	20.0		85.0	52-123			J
Isopropylbenzene	**25.5**	0.30	ug/L	20.0		127	70-130			
4-Isopropyltoluene	**24.2**	0.30	ug/L	20.0		121	70-130			

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
LCS (B4H0816-BS1) Continued				Prepared & Analyzed: 08/08/24						
Methyl-tert-Butyl Ether (MTBE)	**37.6**	1.2	ug/L	40.0		93.9	58-144			
Methylene Chloride	**20.1**	4.4	ug/L	20.0		101	50-135			
4-Methyl-2-pentanone (MIBK)	**14.2**	9.8	ug/L	20.0		70.8	49-139			J
Naphthalene	**15.4**	0.40	ug/L	20.0		77.1	74-128			
n-Propylbenzene	**27.3**	0.20	ug/L	20.0		137	70-130			QL-02
Styrene	**22.2**	0.20	ug/L	20.0		111	84-123			
1,1,1,2-Tetrachloroethane	**21.1**	0.30	ug/L	20.0		106	70-130			
1,1,2,2-Tetrachloroethane	**19.8**	0.40	ug/L	20.0		99.0	58-126			
Tetrachloroethylene (PCE)	**21.6**	0.50	ug/L	20.0		108	70-130			
Toluene	**22.8**	0.20	ug/L	20.0		114	83-118			
1,2,4-Trichlorobenzene	**19.5**	0.30	ug/L	20.0		97.4	84-128			
1,2,3-Trichlorobenzene	**18.1**	0.50	ug/L	20.0		90.7	77-134			
1,1,2-Trichloroethane	**20.7**	0.30	ug/L	20.0		104	75-115			
1,1,1-Trichloroethane	**24.0**	0.30	ug/L	20.0		120	66-158			
Trichloroethylene (TCE)	**22.8**	0.30	ug/L	20.0		114	82-128			
Trichlorofluoromethane (R11)	**23.2**	0.40	ug/L	20.0		116	65-137			
1,2,3-Trichloropropane	**18.5**	0.20	ug/L	20.0		92.4	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.4**	0.30	ug/L	20.0		77.2	62-130			
1,2,4-Trimethylbenzene	**24.2**	0.30	ug/L	20.0		121	70-130			
1,3,5-Trimethylbenzene	**24.4**	0.20	ug/L	20.0		122	70-130			
Vinyl chloride	**26.8**	0.40	ug/L	20.0		134	51-151			
o-Xylene	**22.4**	0.30	ug/L	20.0		112	70-130			
m,p-Xylenes	**47.0**	0.60	ug/L	40.0		117	70-130			
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/L*	*50.0*		*100*	*80-129*			
Surrogate: Dibromofluoromethane	*46.5*		*ug/L*	*50.0*		*93.0*	*68-137*			
Surrogate: Toluene-d8	*49.9*		*ug/L*	*50.0*		*99.8*	*83-134*			
LCS Dup (B4H0816-BSD1)				Prepared & Analyzed: 08/08/24						
Acetone	**21.2**	7.7	ug/L	20.0		106	27-123	16.5	30	J
Benzene	**22.7**	0.40	ug/L	20.0		114	60-134	6.35	30	
Bromobenzene	**20.4**	0.40	ug/L	20.0		102	70-130	2.85	30	

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
LCS Dup (B4H0816-BSD1) Continued				Prepared & Analyzed: 08/08/24						
Bromochloromethane	**19.9**	0.20	ug/L	20.0		99.4	78-121	3.58	30	
Bromodichloromethane	**24.5**	0.40	ug/L	20.0		123	74-135	4.25	30	
Bromoform	**19.6**	0.40	ug/L	20.0		97.9	68-132	1.70	30	
Bromomethane	**27.9**	0.30	ug/L	20.0		140	58-142	12.0	30	
2-Butanone (MEK)	**20.0**	8.6	ug/L	20.0		99.8	62-138	7.05	30	
tert-Butylbenzene	**23.5**	0.20	ug/L	20.0		118	70-130	1.23	30	
n-Butylbenzene	**23.8**	0.20	ug/L	20.0		119	70-130	7.82	30	
sec-Butylbenzene	**25.4**	0.20	ug/L	20.0		127	84-142	1.63	30	
Carbon Disulfide	**19.7**	0.20	ug/L	20.0		98.4	17-177	5.21	30	
Carbon Tetrachloride	**23.0**	0.30	ug/L	20.0		115	66-155	3.34	30	
Chlorobenzene	**22.2**	0.40	ug/L	20.0		111	70-130	2.76	30	
Chloroethane	**29.2**	0.40	ug/L	20.0		146	45-166	11.9	30	
Chloroform	**24.2**	0.30	ug/L	20.0		121	71-131	2.98	30	
Chloromethane	**26.4**	0.40	ug/L	20.0		132	48-152	9.15	30	
4-Chlorotoluene	**24.5**	0.20	ug/L	20.0		122	70-130	0.327	30	
2-Chlorotoluene	**24.9**	0.20	ug/L	20.0		125	70-130	0.765	30	
1,2-Dibromo-3-chloropropane	**19.1**	0.40	ug/L	20.0		95.6	53-145	6.20	30	
Dibromochloromethane	**20.4**	0.40	ug/L	20.0		102	72-133	0.786	30	
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	79-120	2.27	30	
Dibromomethane	**24.7**	0.40	ug/L	20.0		123	68-124	10.9	30	
1,3-Dichlorobenzene	**20.7**	0.40	ug/L	20.0		104	70-130	2.67	30	
1,4-Dichlorobenzene	**20.7**	0.30	ug/L	20.0		103	70-130	2.10	30	
1,2-Dichlorobenzene	**20.0**	0.30	ug/L	20.0		100	70-130	0.349	30	
Dichlorodifluoromethane (R12)	**26.1**	0.40	ug/L	20.0		131	16-148	5.75	30	
1,1-Dichloroethane	**21.8**	0.20	ug/L	20.0		109	67-120	2.60	30	
1,2-Dichloroethane (EDC)	**24.1**	0.20	ug/L	20.0		120	57-156	4.11	30	
cis-1,2-Dichloroethylene	**21.8**	0.30	ug/L	20.0		109	70-124	4.31	30	
1,1-Dichloroethylene	**21.1**	0.40	ug/L	20.0		105	50-149	4.91	30	
trans-1,2-Dichloroethylene	**20.8**	0.30	ug/L	20.0		104	66-126	2.33	30	
1,3-Dichloropropane	**22.1**	0.40	ug/L	20.0		110	79-113	6.98	30	
1,2-Dichloropropane	**21.8**	0.30	ug/L	20.0		109	53-139	8.06	30	
2,2-Dichloropropane	**21.6**	0.30	ug/L	20.0		108	44-162	9.21	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
LCS Dup (B4H0816-BSD1) Continued				Prepared & Analyzed: 08/08/24						
trans-1,3-Dichloropropylene	**21.4**	0.30	ug/L	20.0		107	76-121	4.30	30	
1,1-Dichloropropylene	**23.0**	0.30	ug/L	20.0		115	84-124	2.65	30	
cis-1,3-Dichloropropylene	**22.0**	0.40	ug/L	20.0		110	67-127	3.18	30	
Ethylbenzene	**24.6**	0.30	ug/L	20.0		123	86-124	0.487	30	
Hexachlorobutadiene	**21.5**	0.50	ug/L	20.0		107	76-140	3.61	30	
2-Hexanone (MBK)	**18.1**	8.4	ug/L	20.0		90.6	52-123	6.38	30	J
Isopropylbenzene	**25.5**	0.30	ug/L	20.0		127	70-130	0.0785	30	
4-Isopropyltoluene	**24.3**	0.30	ug/L	20.0		122	70-130	0.247	30	
Methyl-tert-Butyl Ether (MTBE)	**42.6**	1.2	ug/L	40.0		106	58-144	12.5	30	
Methylene Chloride	**24.3**	4.4	ug/L	20.0		122	50-135	18.8	30	
4-Methyl-2-pentanone (MIBK)	**16.7**	9.8	ug/L	20.0		83.7	49-139	16.6	30	J
Naphthalene	**17.1**	0.40	ug/L	20.0		85.6	74-128	10.4	30	
n-Propylbenzene	**24.4**	0.20	ug/L	20.0		122	70-130	11.2	30	
Styrene	**22.2**	0.20	ug/L	20.0		111	84-123	0.135	30	
1,1,1,2-Tetrachloroethane	**20.5**	0.30	ug/L	20.0		103	70-130	2.74	30	
1,1,2,2-Tetrachloroethane	**23.2**	0.40	ug/L	20.0		116	58-126	15.9	30	
Tetrachloroethylene (PCE)	**20.2**	0.50	ug/L	20.0		101	70-130	6.99	30	
Toluene	**22.5**	0.20	ug/L	20.0		112	83-118	1.41	30	
1,2,4-Trichlorobenzene	**18.7**	0.30	ug/L	20.0		93.6	84-128	3.93	30	
1,2,3-Trichlorobenzene	**18.2**	0.50	ug/L	20.0		91.0	77-134	0.275	30	
1,1,2-Trichloroethane	**22.7**	0.30	ug/L	20.0		113	75-115	9.12	30	
1,1,1-Trichloroethane	**24.3**	0.30	ug/L	20.0		121	66-158	0.952	30	
Trichloroethylene (TCE)	**23.4**	0.30	ug/L	20.0		117	82-128	2.73	30	
Trichlorofluoromethane (R11)	**22.9**	0.40	ug/L	20.0		114	65-137	1.30	30	
1,2,3-Trichloropropane	**20.1**	0.20	ug/L	20.0		100	68-123	8.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.5**	0.30	ug/L	20.0		82.4	62-130	6.64	30	
1,2,4-Trimethylbenzene	**24.4**	0.30	ug/L	20.0		122	70-130	0.617	30	
1,3,5-Trimethylbenzene	**24.6**	0.20	ug/L	20.0		123	70-130	0.490	30	
Vinyl chloride	**39.2**	0.40	ug/L	20.0		196	51-151	37.8	30	QL-03
o-Xylene	**22.3**	0.30	ug/L	20.0		111	70-130	0.538	30	
m,p-Xylenes	**46.2**	0.60	ug/L	40.0		115	70-130	1.72	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
LCS Dup (B4H0816-BSD1) Continued				Prepared & Analyzed: 08/08/24						
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/L*	*50.0*		*104*	*80-129*			
Surrogate: Dibromofluoromethane	*48.9*		*ug/L*	*50.0*		*97.8*	*68-137*			
Surrogate: Toluene-d8	*53.0*		*ug/L*	*50.0*		*106*	*83-134*			
Matrix Spike (B4H0816-MS1)		**Source: 4H06020-01**		Prepared & Analyzed: 08/08/24						
Acetone	**19.6**	7.7	ug/L	20.0	<50	98.0	11-169			J
Benzene	**22.9**	0.40	ug/L	20.0	1.27	108	56-135			
Bromobenzene	**19.3**	0.40	ug/L	20.0	<0.50	96.6	70-130			
Bromochloromethane	**18.2**	0.20	ug/L	20.0	<0.50	91.0	74-125			
Bromodichloromethane	**23.2**	0.40	ug/L	20.0	<0.50	116	68-144			
Bromoform	**17.6**	0.40	ug/L	20.0	<0.50	88.0	68-151			
Bromomethane	**27.9**	0.30	ug/L	20.0	<0.50	139	54-142			
2-Butanone (MEK)	**21.8**	8.6	ug/L	20.0	<20	109	62-145			
tert-Butylbenzene	**21.8**	0.20	ug/L	20.0	<0.50	109	70-130			
n-Butylbenzene	**24.6**	0.20	ug/L	20.0	<0.50	123	70-130			
sec-Butylbenzene	**23.9**	0.20	ug/L	20.0	<0.50	120	84-145			
Carbon Disulfide	**18.7**	0.20	ug/L	20.0	<0.50	93.4	28-151			
Carbon Tetrachloride	**21.6**	0.30	ug/L	20.0	<0.50	108	58-164			
Chlorobenzene	**21.0**	0.40	ug/L	20.0	<0.50	105	70-130			
Chloroethane	**28.8**	0.40	ug/L	20.0	<0.50	144	42-164			
Chloroform	**22.5**	0.30	ug/L	20.0	<0.50	113	65-138			
Chloromethane	**28.7**	0.40	ug/L	20.0	<0.50	144	50-152			
4-Chlorotoluene	**23.2**	0.20	ug/L	20.0	<0.50	116	70-130			
2-Chlorotoluene	**23.1**	0.20	ug/L	20.0	<0.50	116	70-130			
1,2-Dibromo-3-chloropropane	**17.5**	0.40	ug/L	20.0	<1.0	87.6	53-161			
Dibromochloromethane	**18.8**	0.40	ug/L	20.0	<0.50	94.0	70-130			
1,2-Dibromoethane (EDB)	**19.3**	0.40	ug/L	20.0	<0.50	96.6	76-130			
Dibromomethane	**21.5**	0.40	ug/L	20.0	<0.50	107	62-135			
1,3-Dichlorobenzene	**19.4**	0.40	ug/L	20.0	<0.50	97.0	70-130			
1,4-Dichlorobenzene	**19.8**	0.30	ug/L	20.0	<0.50	98.8	70-130			
1,2-Dichlorobenzene	**18.4**	0.30	ug/L	20.0	<0.50	91.8	70-130			
Dichlorodifluoromethane (R12)	**28.0**	0.40	ug/L	20.0	<0.50	140	17-153			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Matrix Spike (B4H0816-MS1) Continued Source: 4H06020-01 Prepared & Analyzed: 08/08/24										
1,1-Dichloroethane	**20.3**	0.20	ug/L	20.0	0.430	99.4	55-131			
1,2-Dichloroethane (EDC)	**24.7**	0.20	ug/L	20.0	2.42	111	52-168			
cis-1,2-Dichloroethylene	**66.4**	0.30	ug/L	20.0	40.6	129	70-130			
1,1-Dichloroethylene	**20.3**	0.40	ug/L	20.0	0.560	98.6	51-140			
trans-1,2-Dichloroethylene	**30.0**	0.30	ug/L	20.0	9.31	103	59-127			
1,3-Dichloropropane	**20.0**	0.40	ug/L	20.0	<0.50	100	80-121			
1,2-Dichloropropane	**20.4**	0.30	ug/L	20.0	<0.50	102	52-142			
2,2-Dichloropropane	**22.6**	0.30	ug/L	20.0	<0.50	113	36-168			
trans-1,3-Dichloropropylene	**20.3**	0.30	ug/L	20.0	<0.50	101	78-130			
1,1-Dichloropropylene	**21.8**	0.30	ug/L	20.0	<0.50	109	76-132			
cis-1,3-Dichloropropylene	**21.1**	0.40	ug/L	20.0	<0.50	105	66-130			
Ethylbenzene	**23.5**	0.30	ug/L	20.0	<0.50	118	86-128			
Hexachlorobutadiene	**19.2**	0.50	ug/L	20.0	<1.0	96.1	70-130			
2-Hexanone (MBK)	**17.0**	8.4	ug/L	20.0	<20	85.2	52-141			J
Isopropylbenzene	**23.9**	0.30	ug/L	20.0	<0.50	119	70-130			
4-Isopropyltoluene	**22.4**	0.30	ug/L	20.0	<1.0	112	83-149			
Methyl-tert-Butyl Ether (MTBE)	**35.5**	1.2	ug/L	40.0	<2.0	88.7	56-150			
Methylene Chloride	**20.5**	4.4	ug/L	20.0	<5.0	102	70-130			
4-Methyl-2-pentanone (MIBK)	**14.4**	9.8	ug/L	20.0	<20	72.1	60-148			J
Naphthalene	**15.4**	0.40	ug/L	20.0	<2.0	77.2	70-130			
n-Propylbenzene	**26.3**	0.20	ug/L	20.0	<0.50	132	70-130			QM-07
Styrene	**21.0**	0.20	ug/L	20.0	<0.50	105	65-141			
1,1,1,2-Tetrachloroethane	**19.3**	0.30	ug/L	20.0	<0.50	96.7	70-130			
1,1,2,2-Tetrachloroethane	**21.0**	0.40	ug/L	20.0	<0.50	105	62-134			
Tetrachloroethylene (PCE)	**19.9**	0.50	ug/L	20.0	<0.50	99.4	70-130			
Toluene	**21.9**	0.20	ug/L	20.0	<0.50	110	81-123			
1,2,4-Trichlorobenzene	**17.2**	0.30	ug/L	20.0	<0.50	86.0	80-137			
1,2,3-Trichlorobenzene	**16.3**	0.50	ug/L	20.0	<0.50	81.6	73-144			
1,1,2-Trichloroethane	**20.5**	0.30	ug/L	20.0	<0.50	102	76-122			
1,1,1-Trichloroethane	**23.0**	0.30	ug/L	20.0	<0.50	115	62-164			
Trichloroethylene (TCE)	**23.5**	0.30	ug/L	20.0	0.710	114	72-136			
Trichlorofluoromethane (R11)	**24.0**	0.40	ug/L	20.0	<0.50	120	59-144			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Matrix Spike (B4H0816-MS1) Continued Source: 4H06020-01 Prepared & Analyzed: 08/08/24										
1,2,3-Trichloropropane	**18.3**	0.20	ug/L	20.0	<0.50	91.6	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**15.4**	0.30	ug/L	20.0	<0.50	76.8	62-126			
1,2,4-Trimethylbenzene	**22.8**	0.30	ug/L	20.0	<0.50	114	89-134			
1,3,5-Trimethylbenzene	**22.9**	0.20	ug/L	20.0	<0.50	115	70-130			
Vinyl chloride	**36.8**	0.40	ug/L	20.0	3.06	168	54-150			QM-07
o-Xylene	**21.1**	0.30	ug/L	20.0	<0.50	106	70-130			
m,p-Xylenes	**44.3**	0.60	ug/L	40.0	<1.0	111	70-130			
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50.0*		*102*	*80-129*			
Surrogate: Dibromofluoromethane	*46.8*		*ug/L*	*50.0*		*93.5*	*68-137*			
Surrogate: Toluene-d8	*51.9*		*ug/L*	*50.0*		*104*	*83-134*			
Matrix Spike Dup (B4H0816-MSD1) **Source: 4H06020-01** Prepared & Analyzed: 08/08/24										
Acetone	**19.7**	7.7	ug/L	20.0	<50	98.3	11-169	0.306	30	J
Benzene	**20.9**	0.40	ug/L	20.0	1.27	98.2	56-135	9.13	30	
Bromobenzene	**18.0**	0.40	ug/L	20.0	<0.50	90.2	70-130	6.90	30	
Bromochloromethane	**17.1**	0.20	ug/L	20.0	<0.50	85.4	74-125	6.29	30	
Bromodichloromethane	**21.5**	0.40	ug/L	20.0	<0.50	108	68-144	7.56	30	
Bromoform	**17.0**	0.40	ug/L	20.0	<0.50	85.2	68-151	3.23	30	
Bromomethane	**29.4**	0.30	ug/L	20.0	<0.50	147	54-142	5.51	30	QM-07
2-Butanone (MEK)	**23.6**	8.6	ug/L	20.0	<20	118	62-145	7.87	30	
tert-Butylbenzene	**20.0**	0.20	ug/L	20.0	<0.50	100	70-130	8.46	30	
n-Butylbenzene	**22.7**	0.20	ug/L	20.0	<0.50	113	70-130	8.16	30	
sec-Butylbenzene	**21.7**	0.20	ug/L	20.0	<0.50	109	84-145	9.47	30	
Carbon Disulfide	**17.0**	0.20	ug/L	20.0	<0.50	85.2	28-151	9.29	30	
Carbon Tetrachloride	**19.4**	0.30	ug/L	20.0	<0.50	97.2	58-164	10.6	30	
Chlorobenzene	**19.4**	0.40	ug/L	20.0	<0.50	96.8	70-130	8.13	30	
Chloroethane	**28.5**	0.40	ug/L	20.0	<0.50	142	42-164	1.15	30	
Chloroform	**20.6**	0.30	ug/L	20.0	<0.50	103	65-138	8.95	30	
Chloromethane	**27.6**	0.40	ug/L	20.0	<0.50	138	50-152	4.08	30	
4-Chlorotoluene	**21.3**	0.20	ug/L	20.0	<0.50	106	70-130	8.60	30	
2-Chlorotoluene	**21.2**	0.20	ug/L	20.0	<0.50	106	70-130	8.80	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Matrix Spike Dup (B4H0816-MSD1) Continued	**Source: 4H06020-01** Prepared & Analyzed: 08/08/24									
1,2-Dibromo-3-chloropropane	**17.5**	0.40	ug/L	20.0	<1.0	87.4	53-161	0.228	30	
Dibromochloromethane	**18.0**	0.40	ug/L	20.0	<0.50	90.2	70-130	4.07	30	
1,2-Dibromoethane (EDB)	**18.7**	0.40	ug/L	20.0	<0.50	93.6	76-130	3.21	30	
Dibromomethane	**20.9**	0.40	ug/L	20.0	<0.50	105	62-135	2.64	30	
1,3-Dichlorobenzene	**18.0**	0.40	ug/L	20.0	<0.50	90.0	70-130	7.59	30	
1,4-Dichlorobenzene	**18.1**	0.30	ug/L	20.0	<0.50	90.6	70-130	8.66	30	
1,2-Dichlorobenzene	**17.5**	0.30	ug/L	20.0	<0.50	87.4	70-130	4.97	30	
Dichlorodifluoromethane (R12)	**26.8**	0.40	ug/L	20.0	<0.50	134	17-153	4.38	30	
1,1-Dichloroethane	**18.7**	0.20	ug/L	20.0	0.430	91.2	55-131	8.41	30	
1,2-Dichloroethane (EDC)	**23.8**	0.20	ug/L	20.0	2.42	107	52-168	3.88	30	
cis-1,2-Dichloroethylene	**63.0**	0.30	ug/L	20.0	40.6	112	70-130	5.26	30	
1,1-Dichloroethylene	**18.8**	0.40	ug/L	20.0	0.560	91.0	51-140	7.89	30	
trans-1,2-Dichloroethylene	**27.9**	0.30	ug/L	20.0	9.31	93.0	59-127	7.22	30	
1,3-Dichloropropane	**19.0**	0.40	ug/L	20.0	<0.50	95.2	80-121	4.97	30	
1,2-Dichloropropane	**19.2**	0.30	ug/L	20.0	<0.50	96.0	52-142	6.21	30	
2,2-Dichloropropane	**20.4**	0.30	ug/L	20.0	<0.50	102	36-168	10.4	30	
trans-1,3-Dichloropropylene	**19.4**	0.30	ug/L	20.0	<0.50	97.2	78-130	4.23	30	
1,1-Dichloropropylene	**19.9**	0.30	ug/L	20.0	<0.50	99.6	76-132	8.97	30	
cis-1,3-Dichloropropylene	**19.5**	0.40	ug/L	20.0	<0.50	97.7	66-130	7.54	30	
Ethylbenzene	**21.6**	0.30	ug/L	20.0	<0.50	108	86-128	8.51	30	
Hexachlorobutadiene	**18.1**	0.50	ug/L	20.0	<1.0	90.6	70-130	5.95	30	
2-Hexanone (MBK)	**17.2**	8.4	ug/L	20.0	<20	86.1	52-141	0.992	30	J
Isopropylbenzene	**22.1**	0.30	ug/L	20.0	<0.50	110	70-130	7.84	30	
4-Isopropyltoluene	**20.3**	0.30	ug/L	20.0	<1.0	102	83-149	9.96	30	
Methyl-tert-Butyl Ether (MTBE)	**35.1**	1.2	ug/L	40.0	<2.0	87.8	56-150	1.05	30	
Methylene Chloride	**19.3**	4.4	ug/L	20.0	<5.0	96.4	70-130	5.99	30	
4-Methyl-2-pentanone (MIBK)	**14.8**	9.8	ug/L	20.0	<20	74.2	60-148	2.94	30	J
Naphthalene	**16.3**	0.40	ug/L	20.0	<2.0	81.3	70-130	5.24	30	
n-Propylbenzene	**24.1**	0.20	ug/L	20.0	<0.50	120	70-130	8.88	30	
Styrene	**19.7**	0.20	ug/L	20.0	<0.50	98.4	65-141	6.39	30	
1,1,1,2-Tetrachloroethane	**18.5**	0.30	ug/L	20.0	<0.50	92.4	70-130	4.55	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874665
Date Received: 08/06/24
Date Reported: 08/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4H0816 - EPA 5030B										
Matrix Spike Dup (B4H0816-MSD1) Continued	**Source: 4H06020-01** Prepared & Analyzed: 08/08/24									
1,1,2,2-Tetrachloroethane	**20.5**	0.40	ug/L	20.0	<0.50	102	62-134	2.65	30	
Tetrachloroethylene (PCE)	**17.6**	0.50	ug/L	20.0	<0.50	88.2	70-130	12.0	30	
Toluene	**19.6**	0.20	ug/L	20.0	<0.50	97.8	81-123	11.3	30	
1,2,4-Trichlorobenzene	**16.7**	0.30	ug/L	20.0	<0.50	83.4	80-137	2.95	30	
1,2,3-Trichlorobenzene	**16.5**	0.50	ug/L	20.0	<0.50	82.6	73-144	1.28	30	
1,1,2-Trichloroethane	**19.6**	0.30	ug/L	20.0	<0.50	97.8	76-122	4.54	30	
1,1,1-Trichloroethane	**20.9**	0.30	ug/L	20.0	<0.50	104	62-164	9.44	30	
Trichloroethylene (TCE)	**21.0**	0.30	ug/L	20.0	0.710	102	72-136	11.0	30	
Trichlorofluoromethane (R11)	**23.2**	0.40	ug/L	20.0	<0.50	116	59-144	3.39	30	
1,2,3-Trichloropropane	**18.7**	0.20	ug/L	20.0	<0.50	93.4	69-135	1.95	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.7**	0.30	ug/L	20.0	<0.50	83.6	62-126	8.54	30	
1,2,4-Trimethylbenzene	**20.8**	0.30	ug/L	20.0	<0.50	104	89-134	9.20	30	
1,3,5-Trimethylbenzene	**21.2**	0.20	ug/L	20.0	<0.50	106	70-130	7.99	30	
Vinyl chloride	**36.2**	0.40	ug/L	20.0	3.06	166	54-150	1.48	30	QM-07
o-Xylene	**19.4**	0.30	ug/L	20.0	<0.50	96.8	70-130	8.69	30	
m,p-Xylenes	**40.4**	0.60	ug/L	40.0	<1.0	101	70-130	9.31	30	
Surrogate: 4-Bromofluorobenzene	*51.1*		*ug/L*	*50.0*		*102*	*80-129*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.0*		*92.4*	*68-137*			
Surrogate: Toluene-d8	*51.6*		*ug/L*	*50.0*		*103*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874665
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/21/24

Special Notes

	J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] =	**QL-02**	:	The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.
[2] =	**QL-03**	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] =	**QM-07**	:	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4H07073

Project Name: American Analytics
Project Number: A874665/AH06020

P.O. #: SUB04811-A874665

Report Date: 8/20/2024
Received Date: 8/7/2024 10:40 am
Turnaround Time: Normal
Billing Code:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4H06020-01

4H07073-01 (Water) — Sampled: 08/06/24 8:10 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4H0670 **Preparation:** EPA 5030B				**Prepared:** 08/09/24 07:30			**Analyst:** JAN
1,2,3-Trichloropropane	0.032	0.0012	0.0050	ug/l	1	08/10/24	

Sample: 4H06020-02

4H07073-02 (Water) — Sampled: 08/01/24 8:15 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4H0670 **Preparation:** EPA 5030B				**Prepared:** 08/09/24 07:30			**Analyst:** JAN
1,2,3-Trichloropropane	0.030	0.0012	0.0050	ug/l	1	08/10/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Blank (W4H0670-BLK1)				Prepared: 08/09/24 Analyzed: 08/10/24							
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4H0670-BS1)				Prepared: 08/09/24 Analyzed: 08/10/24							
1,2,3-Trichloropropane	0.0178	0.0012	0.0050	ug/l	0.0200		89	80-120			
LCS Dup (W4H0670-BSD1)				Prepared: 08/09/24 Analyzed: 08/10/24							
1,2,3-Trichloropropane	0.0173	0.0012	0.0050	ug/l	0.0200		86	80-120	3	20	
Duplicate (W4H0670-DUP1)	Source: 4H06101-01			Prepared: 08/09/24 Analyzed: 08/10/24							
1,2,3-Trichloropropane	0.00192	0.0012	0.0050	ug/l		*0.00162*			17	20	J

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

WECK

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.: 4H07073

Client: American Analytics, Inc	**Project Name / No.: A874665/4H06020**	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone: 818-998-5547 x320	**City:**	**P.O.No: SUB04811-A874665**
Fax:	**State & Zip:**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	1,2,3-TCP	Special Instructions
						Please enter the TAT Turnaround Coces ** below	
4H06020-01		8/6/2024	8:10	W	3	X	
4H06020-02		8/1/2024	8:15	W	3	X	
							Please report J-flags
							EQUIS edd needed
							Standard TAT

For Laboratory Use	Relinquished by	Date	Time	Received by
		8/7/24	10:40	CSA CSA
	Relinquished by	Date	Time	Received by
	Relinquished by	Date	Time	Received by
A.A. Project No.:				

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

FO307/1.6R

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **4H07073**
WKO Logged by: Jerald Ancheta
Samples Checked by: Jerald Ancheta

Date/Time Received: 08/08/24 @ 10:40
of Samples: 02
Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	1.6°C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	WET			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified about receipt info?	☐	☒	☐	
1	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐<6mm/Pea Size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	☐	☐	☒	pH paper Lot# 3101689
	Free Chlorine Tested <0.1 (Organics Analyses)	☐	☐	☒	Cl Test Strip Lot# 032R325
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot# 3101689
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Completed by:
Signature: Jerald Ancheta Date: 08/07/24

BG230406

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 70037107

Page ___ of ___

Client: Haley! Ascarch	Project Name / No.: Cooper Downs	Sampler's Name: Riley Arthur	
Project Manager: Christiansen	Site Address: 9313 Rayo Ave.	Sampler's Signature:	
Phone: 7143711820	City: Southgate	P.O. No.:	
Fax:	State & Zip: CA 90280	Quote No.:	

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260	8270 1,4D	6465 1,2,3 ED								Special Instructions
						Please enter the TAT Turnaround Codes ** below										
HT-INF-080624	4406020-01	8/6/24	0810	W	7	X	X	X								
TOTAL-EFF-080624	-02	8/6/24	0815	W	7	X	X	X								

SAMPLE INTEGRITY INTACT Y / N TEMP 4.3°C

'24 AUG 6 5:10PM

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 8/7/24 Time 0500 TAT N Days Sign:	Riley Arthur	8/6/24	1657	
	Relinquished by	Date	Time	Received by
		8/6/24	5:16	
A.A. Project No.: A874665 / 4406020	Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 01, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874667 / 4I11008

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/11/24 14:37 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-091124	4I11008-01	Water	10	09/11/24 09:30	09/11/24 14:37
Total-EFF-091124	4I11008-02	Water	10	09/11/24 09:35	09/11/24 14:37
8270CM 1,4-Dioxane Only					
HT-INF-091124	4I11008-01	Water	10	09/11/24 09:30	09/11/24 14:37
Total-EFF-091124	4I11008-02	Water	10	09/11/24 09:35	09/11/24 14:37

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874667
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	10/01/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	09/11/24	09/11/24		
Date Prepared:	09/12/24	09/12/24		
Date Analyzed:	09/12/24	09/12/24		
AA ID No:	4I11008-01	4I11008-02		
Client ID No:	HT-INF-091124	Total-EFF-091124		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**3.8**	**4.0**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	76.1%	106%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24
Units: ug/L

Date Sampled:	09/11/24	09/11/24		
Date Prepared:	09/19/24	09/19/24		
Date Analyzed:	09/19/24	09/19/24		
AA ID No:	4I11008-01	4I11008-02		
Client ID No:	HT-INF-091124	Total-EFF-091124		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**1.1**	**0.81**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24
Units: ug/L

Date Sampled:	09/11/24	09/11/24		
Date Prepared:	09/19/24	09/19/24		
Date Analyzed:	09/19/24	09/19/24		
AA ID No:	4I11008-01	4I11008-02		
Client ID No:	HT-INF-091124	Total-EFF-091124		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	**0.38 J**	**0.33 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**1.9**	**1.6**	0.20	0.50
cis-1,2-Dichloroethylene	**38**	**30**	0.30	0.50
1,1-Dichloroethylene	**0.50**	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**9.3**	**6.4**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24
Units: ug/L

Date Sampled:	09/11/24	09/11/24		
Date Prepared:	09/19/24	09/19/24		
Date Analyzed:	09/19/24	09/19/24		
AA ID No:	4I11008-01	4I11008-02		
Client ID No:	HT-INF-091124	Total-EFF-091124		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.59**	**0.42 J**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**2.4**	**1.5**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	94.4%	93.2%		80-129
Dibromofluoromethane	72.2%	70.1%		68-137
Toluene-d8	101%	102%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4I1226 - Solid Phase Extraction (SPE)										
Blank (B4I1226-BLK1)				Prepared & Analyzed: 09/12/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*239*		*ug/L*	*200*		*120*	*50-150*			
LCS (B4I1226-BS1)				Prepared: 09/12/24 Analyzed: 09/13/24						
1,4-Dioxane	**40.0**	0.50	ug/L	40.0		100	75-125			
Surrogate: 1,4-Dioxane-d8	*257*		*ug/L*	*200*		*129*	*50-150*			
LCS Dup (B4I1226-BSD1)				Prepared: 09/12/24 Analyzed: 09/13/24						
1,4-Dioxane	**39.6**	0.50	ug/L	40.0		99.0	75-125	1.01	30	
Surrogate: 1,4-Dioxane-d8	*249*		*ug/L*	*200*		*124*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
Blank (B4I1924-BLK1)				Prepared & Analyzed: 09/19/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
Blank (B4I1924-BLK1) Continued				Prepared & Analyzed: 09/19/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
Blank (B4I1924-BLK1) Continued				Prepared & Analyzed: 09/19/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*43.4*		*ug/L*	*50.0*		*86.7*	*80-129*			
Surrogate: Dibromofluoromethane	*34.6*		*ug/L*	*50.0*		*69.2*	*68-137*			
Surrogate: Toluene-d8	*47.9*		*ug/L*	*50.0*		*95.7*	*83-134*			
LCS (B4I1924-BS1)				Prepared & Analyzed: 09/19/24						
Acetone	**23.6**	7.7	ug/L	20.0		118	27-123			J
Benzene	**20.9**	0.40	ug/L	20.0		105	60-134			
Bromobenzene	**22.3**	0.40	ug/L	20.0		111	70-130			
Bromochloromethane	**23.4**	0.20	ug/L	20.0		117	78-121			
Bromodichloromethane	**22.4**	0.40	ug/L	20.0		112	74-135			
Bromoform	**22.2**	0.40	ug/L	20.0		111	68-132			
Bromomethane	**26.9**	0.30	ug/L	20.0		134	58-142			
2-Butanone (MEK)	**22.9**	8.6	ug/L	20.0		115	62-138			
tert-Butylbenzene	**19.8**	0.20	ug/L	20.0		99.1	70-130			
n-Butylbenzene	**22.2**	0.20	ug/L	20.0		111	70-130			
sec-Butylbenzene	**20.6**	0.20	ug/L	20.0		103	84-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
LCS (B4I1924-BS1) Continued				Prepared & Analyzed: 09/19/24						
Carbon Disulfide	**20.2**	0.20	ug/L	20.0		101	17-177			
Carbon Tetrachloride	**18.9**	0.30	ug/L	20.0		94.4	66-155			
Chlorobenzene	**21.4**	0.40	ug/L	20.0		107	70-130			
Chloroethane	**25.5**	0.40	ug/L	20.0		127	45-166			
Chloroform	**22.1**	0.30	ug/L	20.0		110	71-131			
Chloromethane	**25.0**	0.40	ug/L	20.0		125	48-152			
4-Chlorotoluene	**20.3**	0.20	ug/L	20.0		101	70-130			
2-Chlorotoluene	**19.8**	0.20	ug/L	20.0		98.8	70-130			
1,2-Dibromo-3-chloropropane	**17.2**	0.40	ug/L	20.0		86.2	53-145			
Dibromochloromethane	**21.9**	0.40	ug/L	20.0		110	72-133			
1,2-Dibromoethane (EDB)	**23.1**	0.40	ug/L	20.0		116	79-120			
Dibromomethane	**24.6**	0.40	ug/L	20.0		123	68-124			
1,3-Dichlorobenzene	**20.5**	0.40	ug/L	20.0		102	70-130			
1,4-Dichlorobenzene	**20.9**	0.30	ug/L	20.0		104	70-130			
1,2-Dichlorobenzene	**21.3**	0.30	ug/L	20.0		107	70-130			
Dichlorodifluoromethane (R12)	**23.6**	0.40	ug/L	20.0		118	16-148			
1,1-Dichloroethane	**19.4**	0.20	ug/L	20.0		97.1	67-120			
1,2-Dichloroethane (EDC)	**22.1**	0.20	ug/L	20.0		110	57-156			
cis-1,2-Dichloroethylene	**22.4**	0.30	ug/L	20.0		112	70-124			
1,1-Dichloroethylene	**21.4**	0.40	ug/L	20.0		107	50-149			
trans-1,2-Dichloroethylene	**20.7**	0.30	ug/L	20.0		104	66-126			
1,3-Dichloropropane	**21.4**	0.40	ug/L	20.0		107	79-113			
1,2-Dichloropropane	**19.9**	0.30	ug/L	20.0		99.6	53-139			
2,2-Dichloropropane	**18.6**	0.30	ug/L	20.0		93.2	44-162			
trans-1,3-Dichloropropylene	**20.3**	0.30	ug/L	20.0		101	76-121			
1,1-Dichloropropylene	**18.6**	0.30	ug/L	20.0		92.8	84-124			
cis-1,3-Dichloropropylene	**20.6**	0.40	ug/L	20.0		103	67-127			
Ethylbenzene	**22.1**	0.30	ug/L	20.0		110	86-124			
Hexachlorobutadiene	**26.2**	0.50	ug/L	20.0		131	76-140			
2-Hexanone (MBK)	**18.6**	8.4	ug/L	20.0		93.2	52-123			J
Isopropylbenzene	**20.6**	0.30	ug/L	20.0		103	70-130			
4-Isopropyltoluene	**21.3**	0.30	ug/L	20.0		107	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
LCS (B4I1924-BS1) Continued				Prepared & Analyzed: 09/19/24						
Methyl-tert-Butyl Ether (MTBE)	**48.5**	1.2	ug/L	40.0		121	58-144			
Methylene Chloride	**23.8**	4.4	ug/L	20.0		119	50-135			
4-Methyl-2-pentanone (MIBK)	**20.4**	9.8	ug/L	20.0		102	49-139			
Naphthalene	**20.7**	0.40	ug/L	20.0		104	74-128			
n-Propylbenzene	**21.9**	0.20	ug/L	20.0		109	70-130			
Styrene	**22.1**	0.20	ug/L	20.0		111	84-123			
1,1,1,2-Tetrachloroethane	**20.9**	0.30	ug/L	20.0		104	70-130			
1,1,2,2-Tetrachloroethane	**22.4**	0.40	ug/L	20.0		112	58-126			
Tetrachloroethylene (PCE)	**20.1**	0.50	ug/L	20.0		101	70-130			
Toluene	**20.8**	0.20	ug/L	20.0		104	83-118			
1,2,4-Trichlorobenzene	**25.0**	0.30	ug/L	20.0		125	84-128			
1,2,3-Trichlorobenzene	**25.0**	0.50	ug/L	20.0		125	77-134			
1,1,2-Trichloroethane	**22.6**	0.30	ug/L	20.0		113	75-115			
1,1,1-Trichloroethane	**20.0**	0.30	ug/L	20.0		99.9	66-158			
Trichloroethylene (TCE)	**20.0**	0.30	ug/L	20.0		99.9	82-128			
Trichlorofluoromethane (R11)	**25.1**	0.40	ug/L	20.0		125	65-137			
1,2,3-Trichloropropane	**20.4**	0.20	ug/L	20.0		102	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**12.7**	0.30	ug/L	20.0		63.4	62-130			
1,2,4-Trimethylbenzene	**21.8**	0.30	ug/L	20.0		109	70-130			
1,3,5-Trimethylbenzene	**20.8**	0.20	ug/L	20.0		104	70-130			
Vinyl chloride	**30.7**	0.40	ug/L	20.0		153	51-151			QL-02
o-Xylene	**20.5**	0.30	ug/L	20.0		102	70-130			
m,p-Xylenes	**41.5**	0.60	ug/L	40.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*44.0*		*ug/L*	*50.0*		*87.9*	*80-129*			
Surrogate: Dibromofluoromethane	*39.4*		*ug/L*	*50.0*		*78.7*	*68-137*			
Surrogate: Toluene-d8	*46.6*		*ug/L*	*50.0*		*93.2*	*83-134*			
LCS Dup (B4I1924-BSD1)				Prepared & Analyzed: 09/19/24						
Acetone	**26.4**	7.7	ug/L	20.0		132	27-123	11.2	30	QL-03, J
Benzene	**20.6**	0.40	ug/L	20.0		103	60-134	1.54	30	

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
LCS Dup (B4I1924-BSD1) Continued				Prepared & Analyzed: 09/19/24						
Bromobenzene	**19.1**	0.40	ug/L	20.0		95.7	70-130	15.1	30	
Bromochloromethane	**24.5**	0.20	ug/L	20.0		123	78-121	4.72	30	QL-03
Bromodichloromethane	**22.5**	0.40	ug/L	20.0		112	74-135	0.0890	30	
Bromoform	**21.5**	0.40	ug/L	20.0		108	68-132	3.06	30	
Bromomethane	**29.3**	0.30	ug/L	20.0		147	58-142	8.72	30	QL-03
2-Butanone (MEK)	**23.1**	8.6	ug/L	20.0		115	62-138	0.696	30	
tert-Butylbenzene	**15.4**	0.20	ug/L	20.0		76.8	70-130	25.3	30	
n-Butylbenzene	**17.2**	0.20	ug/L	20.0		86.1	70-130	25.3	30	
sec-Butylbenzene	**16.2**	0.20	ug/L	20.0		81.0	84-142	24.0	30	QL-03
Carbon Disulfide	**16.3**	0.20	ug/L	20.0		81.3	17-177	21.4	30	
Carbon Tetrachloride	**15.1**	0.30	ug/L	20.0		75.3	66-155	22.5	30	
Chlorobenzene	**17.9**	0.40	ug/L	20.0		89.5	70-130	17.6	30	
Chloroethane	**25.6**	0.40	ug/L	20.0		128	45-166	0.313	30	
Chloroform	**21.7**	0.30	ug/L	20.0		109	71-131	1.78	30	
Chloromethane	**23.5**	0.40	ug/L	20.0		118	48-152	6.35	30	
4-Chlorotoluene	**17.0**	0.20	ug/L	20.0		84.8	70-130	17.8	30	
2-Chlorotoluene	**16.6**	0.20	ug/L	20.0		83.2	70-130	17.1	30	
1,2-Dibromo-3-chloropropane	**16.4**	0.40	ug/L	20.0		81.8	53-145	5.12	30	
Dibromochloromethane	**19.4**	0.40	ug/L	20.0		96.8	72-133	12.4	30	
1,2-Dibromoethane (EDB)	**21.4**	0.40	ug/L	20.0		107	79-120	7.78	30	
Dibromomethane	**28.3**	0.40	ug/L	20.0		141	68-124	14.0	30	QL-03
1,3-Dichlorobenzene	**17.5**	0.40	ug/L	20.0		87.4	70-130	15.9	30	
1,4-Dichlorobenzene	**17.4**	0.30	ug/L	20.0		87.0	70-130	18.2	30	
1,2-Dichlorobenzene	**19.0**	0.30	ug/L	20.0		95.0	70-130	11.5	30	
Dichlorodifluoromethane (R12)	**20.9**	0.40	ug/L	20.0		105	16-148	11.9	30	
1,1-Dichloroethane	**18.2**	0.20	ug/L	20.0		91.1	67-120	6.38	30	
1,2-Dichloroethane (EDC)	**23.4**	0.20	ug/L	20.0		117	57-156	5.80	30	
cis-1,2-Dichloroethylene	**21.8**	0.30	ug/L	20.0		109	70-124	2.67	30	
1,1-Dichloroethylene	**18.0**	0.40	ug/L	20.0		90.0	50-149	17.2	30	
trans-1,2-Dichloroethylene	**18.5**	0.30	ug/L	20.0		92.4	66-126	11.6	30	
1,3-Dichloropropane	**20.0**	0.40	ug/L	20.0		100	79-113	7.00	30	
1,2-Dichloropropane	**20.5**	0.30	ug/L	20.0		102	53-139	2.82	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
LCS Dup (B4I1924-BSD1) Continued				Prepared & Analyzed: 09/19/24						
2,2-Dichloropropane	**12.9**	0.30	ug/L	20.0		64.4	44-162	36.4	30	QR-02
trans-1,3-Dichloropropylene	**16.6**	0.30	ug/L	20.0		83.2	76-121	19.8	30	
1,1-Dichloropropylene	**15.7**	0.30	ug/L	20.0		78.7	84-124	16.4	30	QL-03
cis-1,3-Dichloropropylene	**20.3**	0.40	ug/L	20.0		102	67-127	1.61	30	
Ethylbenzene	**18.0**	0.30	ug/L	20.0		89.8	86-124	20.6	30	
Hexachlorobutadiene	**19.8**	0.50	ug/L	20.0		99.2	76-140	27.5	30	
2-Hexanone (MBK)	**18.6**	8.4	ug/L	20.0		92.8	52-123	0.376	30	J
Isopropylbenzene	**16.5**	0.30	ug/L	20.0		82.4	70-130	22.1	30	
4-Isopropyltoluene	**16.0**	0.30	ug/L	20.0		80.2	70-130	28.2	30	
Methyl-tert-Butyl Ether (MTBE)	**55.7**	1.2	ug/L	40.0		139	58-144	13.9	30	
Methylene Chloride	**23.4**	4.4	ug/L	20.0		117	50-135	1.69	30	
4-Methyl-2-pentanone (MIBK)	**24.8**	9.8	ug/L	20.0		124	49-139	19.8	30	
Naphthalene	**20.3**	0.40	ug/L	20.0		102	74-128	2.10	30	
n-Propylbenzene	**17.4**	0.20	ug/L	20.0		87.2	70-130	22.6	30	
Styrene	**18.8**	0.20	ug/L	20.0		94.2	84-123	16.1	30	
1,1,1,2-Tetrachloroethane	**18.0**	0.30	ug/L	20.0		89.9	70-130	14.9	30	
1,1,2,2-Tetrachloroethane	**23.3**	0.40	ug/L	20.0		116	58-126	4.12	30	
Tetrachloroethylene (PCE)	**14.9**	0.50	ug/L	20.0		74.6	70-130	29.8	30	
Toluene	**16.7**	0.20	ug/L	20.0		83.4	83-118	22.2	30	
1,2,4-Trichlorobenzene	**21.3**	0.30	ug/L	20.0		106	84-128	16.0	30	
1,2,3-Trichlorobenzene	**22.1**	0.50	ug/L	20.0		110	77-134	12.4	30	
1,1,2-Trichloroethane	**21.9**	0.30	ug/L	20.0		110	75-115	3.32	30	
1,1,1-Trichloroethane	**16.8**	0.30	ug/L	20.0		84.2	66-158	17.1	30	
Trichloroethylene (TCE)	**18.1**	0.30	ug/L	20.0		90.6	82-128	9.71	30	
Trichlorofluoromethane (R11)	**21.1**	0.40	ug/L	20.0		105	65-137	17.4	30	
1,2,3-Trichloropropane	**20.4**	0.20	ug/L	20.0		102	68-123	0.294	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**13.3**	0.30	ug/L	20.0		66.6	62-130	5.00	30	
1,2,4-Trimethylbenzene	**18.1**	0.30	ug/L	20.0		90.4	70-130	18.6	30	
1,3,5-Trimethylbenzene	**16.8**	0.20	ug/L	20.0		84.1	70-130	21.4	30	
Vinyl chloride	**28.7**	0.40	ug/L	20.0		144	51-151	6.60	30	
o-Xylene	**17.5**	0.30	ug/L	20.0		87.3	70-130	15.9	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874667
Date Received: 09/11/24
Date Reported: 10/01/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4I1924 - EPA 5030B										
LCS Dup (B4I1924-BSD1) Continued				Prepared & Analyzed: 09/19/24						
m,p-Xylenes	**33.1**	0.60	ug/L	40.0		82.6	70-130	22.7	30	
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/L*	*50.0*		*91.7*	*80-129*			
Surrogate: Dibromofluoromethane	*47.5*		*ug/L*	*50.0*		*95.0*	*68-137*			
Surrogate: Toluene-d8	*46.4*		*ug/L*	*50.0*		*92.8*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874667
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	10/01/24

Special Notes

	J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] =	**QL-02**	:	The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.
[2] =	**QL-03**	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] =	**QR-02**	:	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4I12060

Project Name: American Analytics
Project Number: A874667/4I11008

P.O. #: SUB04831-A874667

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 9/26/2024
Received Date: 9/12/2024 11:21 am
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4I11008-01

4I12060-01 (Water) — Sampled: 09/11/24 9:30 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4I1318 **Preparation:** EPA 5030B			**Prepared:** 09/17/24 10:00				**Analyst:** JAN
1,2,3-Trichloropropane	0.040	0.0012	0.0050	ug/l	1	09/17/24	

Sample: 4I11008-02

4I12060-02 (Water) — Sampled: 09/11/24 9:35 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4I1318 **Preparation:** EPA 5030B			**Prepared:** 09/17/24 10:00				**Analyst:** JAN
1,2,3-Trichloropropane	0.040	0.0012	0.0050	ug/l	1	09/17/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Blank (W4I1318-BLK1)					Prepared & Analyzed: 09/17/24						
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4I1318-BS1)					Prepared & Analyzed: 09/17/24						
1,2,3-Trichloropropane	0.0180	0.0012	0.0050	ug/l	0.0200		90	80-120			
LCS Dup (W4I1318-BSD1)					Prepared & Analyzed: 09/17/24						
1,2,3-Trichloropropane	0.0188	0.0012	0.0050	ug/l	0.0200		94	80-120	5	20	
Duplicate (W4I1318-DUP1)	Source: 4I12060-01				Prepared & Analyzed: 09/17/24						
1,2,3-Trichloropropane	0.0420	0.0012	0.0050	ug/l		0.0402			4	20	

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	*NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND* means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.: 2920

Client: Haley & Aldrich Inc	**Project Name / No.:** Cooper Drum	**Sampler's Name:** Riley Arthur
Project Manager: C. Tsiatsios	**Site Address:** 9313 Rayo Avenue	**Sampler's Signature:**
Phone: 714-371-1820	**City:** South Gate	**P.O.No:** 130072
Fax: -	**State & Zip:** CA	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260 B	827 1,4 Dioxane	524 SIM	Special Instructions
						Please enter the TAT Turnaround Codes ** below			
~~HT-INF-091124~~		~~09/04/24~~		W	7	X	X	X	
~~Total-EFF-091124~~		~~09/04/24~~		W	7	X	X	X	
HT-INF-091124	UI11008 -01	09/11/24	0930	W	7	X	X	X	
Total-EFF-091124	-02	09/11/24	0935	W	7	X	X	X	

SAMPLE INTEGRITY INTACT (Y) N TEMP 1.3°C

'24 SEP 11 2:37PM

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 9/12/24 Time 0520 TAT N Days Sign:		9/11/24	1130	
		9/11/24	1437	
A.A. Project No.: A8746 7/UI11008		Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

October 21, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874668 / 4J03019

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/03/24 16:43 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-100324	4J03019-01	Water	10	10/03/24 11:50	10/03/24 16:43
Total-EFF-100324	4J03019-02	Water	10	10/03/24 11:59	10/03/24 16:43
8270CM 1,4-Dioxane Only					
HT-INF-100324	4J03019-01	Water	10	10/03/24 11:50	10/03/24 16:43
Total-EFF-100324	4J03019-02	Water	10	10/03/24 11:59	10/03/24 16:43

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874668
Project No:	130072-024	**Date Received:**	10/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	10/21/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	10/03/24	10/03/24		
Date Prepared:	10/08/24	10/08/24		
Date Analyzed:	10/15/24	10/15/24		
AA ID No:	4J03019-01	4J03019-02		
Client ID No:	HT-INF-100324	Total-EFF-100324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**4.4**	**2.8**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	126%	149%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24
Units: ug/L

Date Sampled:	10/03/24	10/03/24		
Date Prepared:	10/09/24	10/09/24		
Date Analyzed:	10/09/24	10/09/24		
AA ID No:	4J03019-01	4J03019-02		
Client ID No:	HT-INF-100324	Total-EFF-100324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**0.89**	**0.67**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	**10 J**	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24
Units: ug/L

Date Sampled:	10/03/24	10/03/24		
Date Prepared:	10/09/24	10/09/24		
Date Analyzed:	10/09/24	10/09/24		
AA ID No:	4J03019-01	4J03019-02		
Client ID No:	HT-INF-100324	Total-EFF-100324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	**0.46 J**	**0.40 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**2.4**	**1.9**	0.20	0.50
cis-1,2-Dichloroethylene	**40**	**33**	0.30	0.50
1,1-Dichloroethylene	**0.78**	**0.49 J**	0.40	0.50
trans-1,2-Dichloroethylene	**8.8**	**7.1**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24
Units: ug/L

Date Sampled:	10/03/24	10/03/24		
Date Prepared:	10/09/24	10/09/24		
Date Analyzed:	10/09/24	10/09/24		
AA ID No:	4J03019-01	4J03019-02		
Client ID No:	HT-INF-100324	Total-EFF-100324		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.70**	**0.48 J**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**1.7**	**1.2**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	94.8%	95.2%		80-129
Dibromofluoromethane	84.1%	79.7%		68-137
Toluene-d8	100%	103%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4J0915 - Solid Phase Extraction (SPE)										
Blank (B4J0915-BLK1)				Prepared: 10/08/24 Analyzed: 10/15/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*183*		*ug/L*	*200*		*91.5*	*50-150*			
LCS (B4J0915-BS1)				Prepared: 10/08/24 Analyzed: 10/15/24						
1,4-Dioxane	**48.2**	0.50	ug/L	40.0		120	75-125			
Surrogate: 1,4-Dioxane-d8	*231*		*ug/L*	*200*		*115*	*50-150*			
LCS Dup (B4J0915-BSD1)				Prepared: 10/08/24 Analyzed: 10/15/24						
1,4-Dioxane	**47.2**	0.50	ug/L	40.0		118	75-125	2.10	30	
Surrogate: 1,4-Dioxane-d8	*238*		*ug/L*	*200*		*119*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Blank (B4J0920-BLK1)				Prepared & Analyzed: 10/09/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Blank (B4J0920-BLK1) Continued				Prepared & Analyzed: 10/09/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Blank (B4J0920-BLK1) Continued				Prepared & Analyzed: 10/09/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*46.4*		*ug/L*	*50.0*		*92.8*	*80-129*			
Surrogate: Dibromofluoromethane	*38.9*		*ug/L*	*50.0*		*77.7*	*68-137*			
Surrogate: Toluene-d8	*49.7*		*ug/L*	*50.0*		*99.4*	*83-134*			
LCS (B4J0920-BS1)				Prepared & Analyzed: 10/09/24						
Acetone	**23.5**	7.7	ug/L	20.0		118	27-123			J
Benzene	**15.8**	0.40	ug/L	20.0		78.8	60-134			
Bromobenzene	**19.9**	0.40	ug/L	20.0		99.3	70-130			
Bromochloromethane	**17.9**	0.20	ug/L	20.0		89.4	78-121			
Bromodichloromethane	**15.5**	0.40	ug/L	20.0		77.7	74-135			
Bromoform	**21.4**	0.40	ug/L	20.0		107	68-132			
Bromomethane	**24.3**	0.30	ug/L	20.0		121	58-142			
2-Butanone (MEK)	**18.0**	8.6	ug/L	20.0		89.8	62-138			J
tert-Butylbenzene	**18.4**	0.20	ug/L	20.0		92.2	70-130			
n-Butylbenzene	**19.1**	0.20	ug/L	20.0		95.6	70-130			
sec-Butylbenzene	**19.1**	0.20	ug/L	20.0		95.5	84-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
LCS (B4J0920-BS1) Continued				Prepared & Analyzed: 10/09/24						
Carbon Disulfide	**18.4**	0.20	ug/L	20.0		91.8	17-177			
Carbon Tetrachloride	**19.1**	0.30	ug/L	20.0		95.4	66-155			
Chlorobenzene	**19.6**	0.40	ug/L	20.0		97.8	70-130			
Chloroethane	**17.1**	0.40	ug/L	20.0		85.6	45-166			
Chloroform	**16.6**	0.30	ug/L	20.0		82.8	71-131			
Chloromethane	**24.2**	0.40	ug/L	20.0		121	48-152			
4-Chlorotoluene	**19.2**	0.20	ug/L	20.0		95.8	70-130			
2-Chlorotoluene	**19.0**	0.20	ug/L	20.0		94.8	70-130			
1,2-Dibromo-3-chloropropane	**17.0**	0.40	ug/L	20.0		85.0	53-145			
Dibromochloromethane	**19.5**	0.40	ug/L	20.0		97.6	72-133			
1,2-Dibromoethane (EDB)	**18.1**	0.40	ug/L	20.0		90.6	79-120			
Dibromomethane	**17.2**	0.40	ug/L	20.0		86.0	68-124			
1,3-Dichlorobenzene	**19.4**	0.40	ug/L	20.0		96.8	70-130			
1,4-Dichlorobenzene	**19.8**	0.30	ug/L	20.0		98.8	70-130			
1,2-Dichlorobenzene	**19.9**	0.30	ug/L	20.0		99.5	70-130			
Dichlorodifluoromethane (R12)	**22.1**	0.40	ug/L	20.0		111	16-148			
1,1-Dichloroethane	**17.4**	0.20	ug/L	20.0		86.8	67-120			
1,2-Dichloroethane (EDC)	**17.1**	0.20	ug/L	20.0		85.4	57-156			
cis-1,2-Dichloroethylene	**16.3**	0.30	ug/L	20.0		81.7	70-124			
1,1-Dichloroethylene	**16.6**	0.40	ug/L	20.0		83.2	50-149			
trans-1,2-Dichloroethylene	**16.9**	0.30	ug/L	20.0		84.5	66-126			
1,3-Dichloropropane	**19.2**	0.40	ug/L	20.0		96.0	79-113			
1,2-Dichloropropane	**15.4**	0.30	ug/L	20.0		77.0	53-139			
2,2-Dichloropropane	**18.0**	0.30	ug/L	20.0		89.9	44-162			
trans-1,3-Dichloropropylene	**19.5**	0.30	ug/L	20.0		97.6	76-121			
1,1-Dichloropropylene	**16.7**	0.30	ug/L	20.0		83.5	84-124			QL-02
cis-1,3-Dichloropropylene	**16.4**	0.40	ug/L	20.0		82.2	67-127			
Ethylbenzene	**18.8**	0.30	ug/L	20.0		94.1	86-124			
Hexachlorobutadiene	**20.0**	0.50	ug/L	20.0		99.8	76-140			
2-Hexanone (MBK)	**20.0**	8.4	ug/L	20.0		99.9	52-123			
Isopropylbenzene	**19.4**	0.30	ug/L	20.0		96.8	70-130			
4-Isopropyltoluene	**19.0**	0.30	ug/L	20.0		94.9	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
LCS (B4J0920-BS1) Continued				Prepared & Analyzed: 10/09/24						
Methyl-tert-Butyl Ether (MTBE)	**39.3**	1.2	ug/L	40.0		98.2	58-144			
Methylene Chloride	**19.9**	4.4	ug/L	20.0		99.5	50-135			
4-Methyl-2-pentanone (MIBK)	**15.4**	9.8	ug/L	20.0		77.2	49-139			J
Naphthalene	**20.1**	0.40	ug/L	20.0		101	74-128			
n-Propylbenzene	**19.4**	0.20	ug/L	20.0		96.8	70-130			
Styrene	**19.0**	0.20	ug/L	20.0		94.8	84-123			
1,1,1,2-Tetrachloroethane	**19.5**	0.30	ug/L	20.0		97.4	70-130			
1,1,2,2-Tetrachloroethane	**18.4**	0.40	ug/L	20.0		92.2	58-126			
Tetrachloroethylene (PCE)	**20.4**	0.50	ug/L	20.0		102	70-130			
Toluene	**19.2**	0.20	ug/L	20.0		95.8	83-118			
1,2,4-Trichlorobenzene	**20.4**	0.30	ug/L	20.0		102	84-128			
1,2,3-Trichlorobenzene	**22.4**	0.50	ug/L	20.0		112	77-134			
1,1,2-Trichloroethane	**18.8**	0.30	ug/L	20.0		94.0	75-115			
1,1,1-Trichloroethane	**17.2**	0.30	ug/L	20.0		86.1	66-158			
Trichloroethylene (TCE)	**16.6**	0.30	ug/L	20.0		82.8	82-128			
Trichlorofluoromethane (R11)	**19.5**	0.40	ug/L	20.0		97.4	65-137			
1,2,3-Trichloropropane	**18.0**	0.20	ug/L	20.0		90.1	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**20.0**	0.30	ug/L	20.0		100	62-130			
1,2,4-Trimethylbenzene	**18.9**	0.30	ug/L	20.0		94.4	70-130			
1,3,5-Trimethylbenzene	**19.4**	0.20	ug/L	20.0		97.0	70-130			
Vinyl chloride	**23.1**	0.40	ug/L	20.0		115	51-151			
o-Xylene	**19.3**	0.30	ug/L	20.0		96.5	70-130			
m,p-Xylenes	**40.1**	0.60	ug/L	40.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*43.3*		*ug/L*	*50.0*		*86.5*	*80-129*			
Surrogate: Dibromofluoromethane	*39.6*		*ug/L*	*50.0*		*79.2*	*68-137*			
Surrogate: Toluene-d8	*47.8*		*ug/L*	*50.0*		*95.6*	*83-134*			
LCS Dup (B4J0920-BSD1)				Prepared & Analyzed: 10/09/24						
Acetone	**17.0**	7.7	ug/L	20.0		85.2	27-123	32.1	30	QR-02, J
Benzene	**19.5**	0.40	ug/L	20.0		97.5	60-134	21.2	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
LCS Dup (B4J0920-BSD1) Continued				Prepared & Analyzed: 10/09/24						
Bromobenzene	**24.9**	0.40	ug/L	20.0		124	70-130	22.5	30	
Bromochloromethane	**21.7**	0.20	ug/L	20.0		108	78-121	19.2	30	
Bromodichloromethane	**19.5**	0.40	ug/L	20.0		97.6	74-135	22.7	30	
Bromoform	**26.8**	0.40	ug/L	20.0		134	68-132	22.4	30	QL-03
Bromomethane	**21.7**	0.30	ug/L	20.0		109	58-142	11.0	30	
2-Butanone (MEK)	**18.3**	8.6	ug/L	20.0		91.7	62-138	2.15	30	J
tert-Butylbenzene	**25.5**	0.20	ug/L	20.0		127	70-130	32.0	30	QR-02
n-Butylbenzene	**24.2**	0.20	ug/L	20.0		121	70-130	23.7	30	
sec-Butylbenzene	**24.5**	0.20	ug/L	20.0		123	84-142	24.8	30	
Carbon Disulfide	**22.2**	0.20	ug/L	20.0		111	17-177	19.0	30	
Carbon Tetrachloride	**23.6**	0.30	ug/L	20.0		118	66-155	21.1	30	
Chlorobenzene	**24.8**	0.40	ug/L	20.0		124	70-130	23.8	30	
Chloroethane	**21.3**	0.40	ug/L	20.0		107	45-166	22.0	30	
Chloroform	**21.0**	0.30	ug/L	20.0		105	71-131	23.5	30	
Chloromethane	**23.9**	0.40	ug/L	20.0		119	48-152	1.25	30	
4-Chlorotoluene	**24.0**	0.20	ug/L	20.0		120	70-130	22.4	30	
2-Chlorotoluene	**24.4**	0.20	ug/L	20.0		122	70-130	25.1	30	
1,2-Dibromo-3-chloropropane	**21.3**	0.40	ug/L	20.0		107	53-145	22.5	30	
Dibromochloromethane	**24.9**	0.40	ug/L	20.0		125	72-133	24.4	30	
1,2-Dibromoethane (EDB)	**24.7**	0.40	ug/L	20.0		124	79-120	30.8	30	QL-03
Dibromomethane	**21.0**	0.40	ug/L	20.0		105	68-124	19.8	30	
1,3-Dichlorobenzene	**25.1**	0.40	ug/L	20.0		126	70-130	25.9	30	
1,4-Dichlorobenzene	**25.2**	0.30	ug/L	20.0		126	70-130	24.2	30	
1,2-Dichlorobenzene	**25.4**	0.30	ug/L	20.0		127	70-130	24.1	30	
Dichlorodifluoromethane (R12)	**23.3**	0.40	ug/L	20.0		116	16-148	5.06	30	
1,1-Dichloroethane	**22.0**	0.20	ug/L	20.0		110	67-120	23.7	30	
1,2-Dichloroethane (EDC)	**21.4**	0.20	ug/L	20.0		107	57-156	22.6	30	
cis-1,2-Dichloroethylene	**20.4**	0.30	ug/L	20.0		102	70-124	21.9	30	
1,1-Dichloroethylene	**22.4**	0.40	ug/L	20.0		112	50-149	29.3	30	
trans-1,2-Dichloroethylene	**21.5**	0.30	ug/L	20.0		107	66-126	23.9	30	
1,3-Dichloropropane	**24.5**	0.40	ug/L	20.0		122	79-113	24.3	30	QL-03
1,2-Dichloropropane	**19.9**	0.30	ug/L	20.0		99.4	53-139	25.4	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
LCS Dup (B4J0920-BSD1) Continued				Prepared & Analyzed: 10/09/24						
2,2-Dichloropropane	**20.9**	0.30	ug/L	20.0		104	44-162	15.0	30	
trans-1,3-Dichloropropylene	**24.2**	0.30	ug/L	20.0		121	76-121	21.3	30	
1,1-Dichloropropylene	**21.0**	0.30	ug/L	20.0		105	84-124	22.8	30	
cis-1,3-Dichloropropylene	**19.5**	0.40	ug/L	20.0		97.6	67-127	17.1	30	
Ethylbenzene	**24.0**	0.30	ug/L	20.0		120	86-124	24.3	30	
Hexachlorobutadiene	**25.7**	0.50	ug/L	20.0		128	76-140	24.9	30	
2-Hexanone (MBK)	**23.5**	8.4	ug/L	20.0		118	52-123	16.2	30	
Isopropylbenzene	**24.4**	0.30	ug/L	20.0		122	70-130	23.2	30	
4-Isopropyltoluene	**24.2**	0.30	ug/L	20.0		121	70-130	24.0	30	
Methyl-tert-Butyl Ether (MTBE)	**44.6**	1.2	ug/L	40.0		112	58-144	12.7	30	
Methylene Chloride	**19.9**	4.4	ug/L	20.0		99.6	50-135	0.151	30	
4-Methyl-2-pentanone (MIBK)	**18.0**	9.8	ug/L	20.0		90.2	49-139	15.6	30	J
Naphthalene	**23.7**	0.40	ug/L	20.0		118	74-128	16.3	30	
n-Propylbenzene	**25.1**	0.20	ug/L	20.0		126	70-130	25.9	30	
Styrene	**24.8**	0.20	ug/L	20.0		124	84-123	26.9	30	QL-03
1,1,1,2-Tetrachloroethane	**25.0**	0.30	ug/L	20.0		125	70-130	25.0	30	
1,1,2,2-Tetrachloroethane	**24.6**	0.40	ug/L	20.0		123	58-126	28.6	30	
Tetrachloroethylene (PCE)	**26.0**	0.50	ug/L	20.0		130	70-130	23.9	30	
Toluene	**24.0**	0.20	ug/L	20.0		120	83-118	22.3	30	QL-03
1,2,4-Trichlorobenzene	**25.2**	0.30	ug/L	20.0		126	84-128	21.0	30	
1,2,3-Trichlorobenzene	**24.5**	0.50	ug/L	20.0		122	77-134	8.75	30	
1,1,2-Trichloroethane	**23.9**	0.30	ug/L	20.0		120	75-115	24.0	30	QL-03
1,1,1-Trichloroethane	**21.5**	0.30	ug/L	20.0		108	66-158	22.2	30	
Trichloroethylene (TCE)	**20.6**	0.30	ug/L	20.0		103	82-128	21.4	30	
Trichlorofluoromethane (R11)	**23.2**	0.40	ug/L	20.0		116	65-137	17.5	30	
1,2,3-Trichloropropane	**23.3**	0.20	ug/L	20.0		116	68-123	25.4	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**23.6**	0.30	ug/L	20.0		118	62-130	16.3	30	
1,2,4-Trimethylbenzene	**24.0**	0.30	ug/L	20.0		120	70-130	23.9	30	
1,3,5-Trimethylbenzene	**24.7**	0.20	ug/L	20.0		123	70-130	24.0	30	
Vinyl chloride	**25.8**	0.40	ug/L	20.0		129	51-151	11.2	30	
o-Xylene	**24.5**	0.30	ug/L	20.0		122	70-130	23.7	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
LCS Dup (B4J0920-BSD1) Continued				Prepared & Analyzed: 10/09/24						
m,p-Xylenes	**49.2**	0.60	ug/L	40.0		123	70-130	20.4	30	
Surrogate: 4-Bromofluorobenzene	*43.9*		*ug/L*	*50.0*		*87.8*	*80-129*			
Surrogate: Dibromofluoromethane	*41.3*		*ug/L*	*50.0*		*82.6*	*68-137*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.8*	*83-134*			
Matrix Spike (B4J0920-MS1)		**Source: 4J03024-11**		Prepared & Analyzed: 10/09/24						
Acetone	**26.9**	7.7	ug/L	20.0	15.4	57.8	11-169			J
Benzene	**19.7**	0.40	ug/L	20.0		98.4	56-135			
Bromobenzene	**25.2**	0.40	ug/L	20.0		126	70-130			
Bromochloromethane	**18.4**	0.20	ug/L	20.0		91.8	74-125			
Bromodichloromethane	**17.7**	0.40	ug/L	20.0		88.4	68-144			
Bromoform	**22.0**	0.40	ug/L	20.0		110	68-151			
Bromomethane	**17.0**	0.30	ug/L	20.0		85.2	54-142			
2-Butanone (MEK)	**18.4**	8.6	ug/L	20.0		92.2	62-145			J
tert-Butylbenzene	**25.8**	0.20	ug/L	20.0		129	70-130			
n-Butylbenzene	**25.2**	0.20	ug/L	20.0		126	70-130			
sec-Butylbenzene	**26.2**	0.20	ug/L	20.0		131	84-145			
Carbon Disulfide	**22.3**	0.20	ug/L	20.0		112	28-151			
Carbon Tetrachloride	**24.9**	0.30	ug/L	20.0		124	58-164			
Chlorobenzene	**24.7**	0.40	ug/L	20.0		124	70-130			
Chloroethane	**19.6**	0.40	ug/L	20.0		98.2	42-164			
Chloroform	**18.7**	0.30	ug/L	20.0		93.7	65-138			
Chloromethane	**21.8**	0.40	ug/L	20.0		109	50-152			
4-Chlorotoluene	**25.4**	0.20	ug/L	20.0		127	70-130			
2-Chlorotoluene	**25.7**	0.20	ug/L	20.0		128	70-130			
1,2-Dibromo-3-chloropropane	**19.6**	0.40	ug/L	20.0		97.8	53-161			
Dibromochloromethane	**22.4**	0.40	ug/L	20.0		112	70-130			
1,2-Dibromoethane (EDB)	**21.0**	0.40	ug/L	20.0		105	76-130			
Dibromomethane	**15.6**	0.40	ug/L	20.0		78.0	62-135			
1,3-Dichlorobenzene	**24.8**	0.40	ug/L	20.0		124	70-130			
1,4-Dichlorobenzene	**24.9**	0.30	ug/L	20.0		125	70-130			
1,2-Dichlorobenzene	**23.7**	0.30	ug/L	20.0		119	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Matrix Spike (B4J0920-MS1) Continued Source: 4J03024-11 Prepared & Analyzed: 10/09/24										
Dichlorodifluoromethane (R12)	**21.4**	0.40	ug/L	20.0		107	17-153			
1,1-Dichloroethane	**20.6**	0.20	ug/L	20.0	0.530	100	55-131			
1,2-Dichloroethane (EDC)	**18.3**	0.20	ug/L	20.0		91.4	52-168			
cis-1,2-Dichloroethylene	**19.8**	0.30	ug/L	20.0	0.880	94.8	70-130			
1,1-Dichloroethylene	**22.1**	0.40	ug/L	20.0		111	51-140			
trans-1,2-Dichloroethylene	**21.2**	0.30	ug/L	20.0		106	59-127			
1,3-Dichloropropane	**22.2**	0.40	ug/L	20.0		111	80-121			
1,2-Dichloropropane	**18.4**	0.30	ug/L	20.0		91.8	52-142			
2,2-Dichloropropane	**18.4**	0.30	ug/L	20.0		92.0	36-168			
trans-1,3-Dichloropropylene	**22.4**	0.30	ug/L	20.0		112	78-130			
1,1-Dichloropropylene	**21.8**	0.30	ug/L	20.0		109	76-132			
cis-1,3-Dichloropropylene	**17.1**	0.40	ug/L	20.0		85.4	66-130			
Ethylbenzene	**24.5**	0.30	ug/L	20.0		122	86-128			
Hexachlorobutadiene	**25.4**	0.50	ug/L	20.0		127	70-130			
2-Hexanone (MBK)	**19.6**	8.4	ug/L	20.0		98.0	52-141			J
Isopropylbenzene	**28.8**	0.30	ug/L	20.0		144	70-130			QL-02
4-Isopropyltoluene	**25.6**	0.30	ug/L	20.0		128	83-149			
Methyl-tert-Butyl Ether (MTBE)	**25.9**	1.2	ug/L	40.0		64.8	56-150			
Methylene Chloride	**17.7**	4.4	ug/L	20.0		88.6	70-130			
4-Methyl-2-pentanone (MIBK)	**13.6**	9.8	ug/L	20.0		67.8	60-148			J
Naphthalene	**18.4**	0.40	ug/L	20.0		91.8	70-130			
n-Propylbenzene	**26.8**	0.20	ug/L	20.0		134	70-130			QM-07
Styrene	**22.8**	0.20	ug/L	20.0		114	65-141			
1,1,1,2-Tetrachloroethane	**24.9**	0.30	ug/L	20.0		125	70-130			
1,1,2,2-Tetrachloroethane	**19.2**	0.40	ug/L	20.0		95.8	62-134			
Tetrachloroethylene (PCE)	**24.3**	0.50	ug/L	20.0		121	70-130			
Toluene	**25.9**	0.20	ug/L	20.0		130	81-123			QM-07
1,2,4-Trichlorobenzene	**20.9**	0.30	ug/L	20.0		105	80-137			
1,2,3-Trichlorobenzene	**20.4**	0.50	ug/L	20.0		102	73-144			
1,1,2-Trichloroethane	**21.7**	0.30	ug/L	20.0		108	76-122			
1,1,1-Trichloroethane	**23.3**	0.30	ug/L	20.0		117	62-164			
Trichloroethylene (TCE)	**23.6**	0.30	ug/L	20.0	2.95	103	72-136			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Matrix Spike (B4J0920-MS1) Continued	**Source: 4J03024-11**			Prepared & Analyzed: 10/09/24						
Trichlorofluoromethane (R11)	**21.0**	0.40	ug/L	20.0		105	59-144			
1,2,3-Trichloropropane	**18.9**	0.20	ug/L	20.0		94.4	69-135			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**24.0**	0.30	ug/L	20.0		120	62-126			
1,2,4-Trimethylbenzene	**24.9**	0.30	ug/L	20.0		125	89-134			
1,3,5-Trimethylbenzene	**25.7**	0.20	ug/L	20.0		129	70-130			
Vinyl chloride	**24.0**	0.40	ug/L	20.0		120	54-150			
o-Xylene	**24.3**	0.30	ug/L	20.0		121	70-130			
m,p-Xylenes	**50.5**	0.60	ug/L	40.0		126	70-130			
Surrogate: 4-Bromofluorobenzene	*46.1*		*ug/L*	*50.0*		*92.2*	*80-129*			
Surrogate: Dibromofluoromethane	*35.5*		*ug/L*	*50.0*		*70.9*	*68-137*			
Surrogate: Toluene-d8	*53.8*		*ug/L*	*50.0*		*108*	*83-134*			
Matrix Spike Dup (B4J0920-MSD1)	**Source: 4J03024-11**			Prepared & Analyzed: 10/09/24						
Acetone	**34.7**	7.7	ug/L	20.0	15.4	96.6	11-169	25.2	30	J
Benzene	**18.2**	0.40	ug/L	20.0		91.2	56-135	7.65	30	
Bromobenzene	**24.1**	0.40	ug/L	20.0		120	70-130	4.66	30	
Bromochloromethane	**22.5**	0.20	ug/L	20.0		113	74-125	20.3	30	
Bromodichloromethane	**20.1**	0.40	ug/L	20.0		101	68-144	12.9	30	
Bromoform	**27.2**	0.40	ug/L	20.0		136	68-151	21.2	30	
Bromomethane	**23.9**	0.30	ug/L	20.0		120	54-142	33.6	30	QR-03
2-Butanone (MEK)	**24.7**	8.6	ug/L	20.0		124	62-145	29.2	30	
tert-Butylbenzene	**21.5**	0.20	ug/L	20.0		108	70-130	18.1	30	
n-Butylbenzene	**21.4**	0.20	ug/L	20.0		107	70-130	16.5	30	
sec-Butylbenzene	**22.5**	0.20	ug/L	20.0		113	84-145	15.2	30	
Carbon Disulfide	**21.2**	0.20	ug/L	20.0		106	28-151	5.29	30	
Carbon Tetrachloride	**23.3**	0.30	ug/L	20.0		117	58-164	6.51	30	
Chlorobenzene	**22.6**	0.40	ug/L	20.0		113	70-130	8.70	30	
Chloroethane	**22.4**	0.40	ug/L	20.0		112	42-164	13.2	30	
Chloroform	**19.9**	0.30	ug/L	20.0		99.6	65-138	6.10	30	
Chloromethane	**29.8**	0.40	ug/L	20.0		149	50-152	31.2	30	QR-03
4-Chlorotoluene	**21.8**	0.20	ug/L	20.0		109	70-130	15.5	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Matrix Spike Dup (B4J0920-MSD1) Continued			**Source: 4J03024-11**	Prepared & Analyzed: 10/09/24						
2-Chlorotoluene	**22.1**	0.20	ug/L	20.0		110	70-130	15.2	30	
1,2-Dibromo-3-chloropropane	**25.7**	0.40	ug/L	20.0		129	53-161	27.2	30	
Dibromochloromethane	**25.3**	0.40	ug/L	20.0		127	70-130	12.3	30	
1,2-Dibromoethane (EDB)	**24.7**	0.40	ug/L	20.0		123	76-130	16.1	30	
Dibromomethane	**23.1**	0.40	ug/L	20.0		115	62-135	38.6	30	QR-03
1,3-Dichlorobenzene	**22.8**	0.40	ug/L	20.0		114	70-130	8.10	30	
1,4-Dichlorobenzene	**22.4**	0.30	ug/L	20.0		112	70-130	10.6	30	
1,2-Dichlorobenzene	**25.5**	0.30	ug/L	20.0		128	70-130	7.19	30	
Dichlorodifluoromethane (R12)	**25.7**	0.40	ug/L	20.0		129	17-153	18.2	30	
1,1-Dichloroethane	**21.8**	0.20	ug/L	20.0	0.530	106	55-131	5.67	30	
1,2-Dichloroethane (EDC)	**22.8**	0.20	ug/L	20.0		114	52-168	22.2	30	
cis-1,2-Dichloroethylene	**20.3**	0.30	ug/L	20.0	0.880	97.0	70-130	2.19	30	
1,1-Dichloroethylene	**20.4**	0.40	ug/L	20.0		102	51-140	8.14	30	
trans-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		89.0	59-127	17.4	30	
1,3-Dichloropropane	**24.7**	0.40	ug/L	20.0		123	80-121	10.4	30	QM-07
1,2-Dichloropropane	**20.3**	0.30	ug/L	20.0		101	52-142	9.94	30	
2,2-Dichloropropane	**19.2**	0.30	ug/L	20.0		96.2	36-168	4.47	30	
trans-1,3-Dichloropropylene	**24.1**	0.30	ug/L	20.0		120	78-130	7.27	30	
1,1-Dichloropropylene	**20.4**	0.30	ug/L	20.0		102	76-132	6.97	30	
cis-1,3-Dichloropropylene	**19.8**	0.40	ug/L	20.0		99.2	66-130	15.0	30	
Ethylbenzene	**21.4**	0.30	ug/L	20.0		107	86-128	13.2	30	
Hexachlorobutadiene	**24.0**	0.50	ug/L	20.0		120	70-130	5.66	30	
2-Hexanone (MBK)	**25.0**	8.4	ug/L	20.0		125	52-141	24.4	30	
Isopropylbenzene	**22.4**	0.30	ug/L	20.0		112	70-130	25.0	30	
4-Isopropyltoluene	**21.2**	0.30	ug/L	20.0		106	83-149	19.1	30	
Methyl-tert-Butyl Ether (MTBE)	**56.6**	1.2	ug/L	40.0		142	56-150	74.3	30	QR-03
Methylene Chloride	**19.7**	4.4	ug/L	20.0		98.6	70-130	10.7	30	
4-Methyl-2-pentanone (MIBK)	**19.8**	9.8	ug/L	20.0		99.2	60-148	37.7	30	QR-03, J
Naphthalene	**28.6**	0.40	ug/L	20.0		143	70-130	43.7	30	QM-07
n-Propylbenzene	**22.0**	0.20	ug/L	20.0		110	70-130	19.3	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874668
Date Received: 10/03/24
Date Reported: 10/21/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4J0920 - EPA 5030B										
Matrix Spike Dup (B4J0920-MSD1) Continued			**Source: 4J03024-11**	Prepared & Analyzed: 10/09/24						
Styrene	**22.4**	0.20	ug/L	20.0		112	65-141	1.55	30	
1,1,1,2-Tetrachloroethane	**23.4**	0.30	ug/L	20.0		117	70-130	6.16	30	
1,1,2,2-Tetrachloroethane	**25.7**	0.40	ug/L	20.0		129	62-134	29.3	30	
Tetrachloroethylene (PCE)	**22.5**	0.50	ug/L	20.0		113	70-130	7.61	30	
Toluene	**21.9**	0.20	ug/L	20.0		110	81-123	16.7	30	
1,2,4-Trichlorobenzene	**25.8**	0.30	ug/L	20.0		129	80-137	21.0	30	
1,2,3-Trichlorobenzene	**26.7**	0.50	ug/L	20.0		134	73-144	27.0	30	
1,1,2-Trichloroethane	**25.9**	0.30	ug/L	20.0		129	76-122	17.7	30	QM-07
1,1,1-Trichloroethane	**21.5**	0.30	ug/L	20.0		107	62-164	8.35	30	
Trichloroethylene (TCE)	**22.5**	0.30	ug/L	20.0	2.95	97.9	72-136	4.55	30	
Trichlorofluoromethane (R11)	**25.3**	0.40	ug/L	20.0		126	59-144	18.4	30	
1,2,3-Trichloropropane	**23.3**	0.20	ug/L	20.0		116	69-135	20.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**23.9**	0.30	ug/L	20.0		120	62-126	0.459	30	
1,2,4-Trimethylbenzene	**21.6**	0.30	ug/L	20.0		108	89-134	14.5	30	
1,3,5-Trimethylbenzene	**21.7**	0.20	ug/L	20.0		108	70-130	17.2	30	
Vinyl chloride	**25.6**	0.40	ug/L	20.0		128	54-150	6.46	30	
o-Xylene	**22.6**	0.30	ug/L	20.0		113	70-130	7.31	30	
m,p-Xylenes	**46.6**	0.60	ug/L	40.0		117	70-130	7.97	30	
Surrogate: 4-Bromofluorobenzene	*44.1*		*ug/L*	*50.0*		*88.3*	*80-129*			
Surrogate: Dibromofluoromethane	*41.1*		*ug/L*	*50.0*		*82.2*	*68-137*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96.4*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874668
Project No:	130072-024	**Date Received:**	10/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	10/21/24

Special Notes

	J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] =	**QL-02**	:	The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.
[2] =	**QL-03**	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] =	**QM-07**	:	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.
[4] =	**QR-02**	:	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
[5] =	**QR-03**	:	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4J04085

Project Name: American Analytics
Project Number: A874668/4J03019

P.O. #: SUB04835-A874668

Report Date: 10/16/2024
Received Date: 10/4/2024 10:57 am
Turnaround Time: Normal
Billing Code:

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4J03019-01

4J04085-01 (Water) — Sampled: 10/03/24 11:50 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4J0611 **Preparation:** EPA 5030B				**Prepared:** 10/08/24 09:27			**Analyst:** JAN
1,2,3-Trichloropropane	0.042	0.0012	0.0050	ug/l	1	10/08/24	

Sample: 4J03019-02

4J04085-02 (Water) — Sampled: 10/03/24 11:59 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP				**Instr:** GCMS12			
Batch ID: W4J0611 **Preparation:** EPA 5030B				**Prepared:** 10/08/24 09:27			**Analyst:** JAN
1,2,3-Trichloropropane	0.041	0.0012	0.0050	ug/l	1	10/08/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Blank (W4J0611-BLK1)					Prepared & Analyzed: 10/08/24						
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4J0611-BS1)					Prepared & Analyzed: 10/08/24						
1,2,3-Trichloropropane	0.0198	0.0012	0.0050	ug/l	0.0200		99	80-120			
LCS Dup (W4J0611-BSD1)					Prepared & Analyzed: 10/08/24						
1,2,3-Trichloropropane	0.0199	0.0012	0.0050	ug/l	0.0200		99	80-120	0.3	20	
Duplicate (W4J0611-DUP1)	Source: 4J04086-02				Prepared & Analyzed: 10/08/24						
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l		*ND*				20	

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

4J04085

A.A. SOC No.

WECK

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

Client: American Analytics, Inc	**Project Name / No.: A874668/4J03019**	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone: 818-998-5547 x320	**City:**	**P.O.No: SUB04835-A874668**
Fax:	**State & Zip:**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	1,2,3-TCP	Special Instructions
						Please enter the TAT Turnaround Codes ** below	
4J03019-01		10/3/2024	11:50	W	3	X	
4J03019-02		10/3/2024	11:59	W	3	X	
							Please report J-flags
							EQUIS edd needed
							Standard TAT

For Laboratory Use	Relinquished by	Date	Time	Received by
	Relinquished by	10/4/24 Date	10:57 Time	5.2° TOPEX Received by
	Relinquished by	Date	Time	Received by

A.A. Project No.:

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **4j04085** Date/Time Received: 10/04/24 @ 10:57

WKO Logged by: Lester Abad # of Samples: 02

Samples Checked by: Lester Abad Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	5.2°C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	WET			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified about receipt info?	☐	☒	☐	
1	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐<6mm/Pea Size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	☐	☐	☒	pH paper Lot# 3101689
	Free Chlorine Tested <0.1 (Organics Analyses)	☐	☐	☒	Cl Test Strip Lot# 022Y423
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot# 3101689
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Completed by:

Signature: *Lester Abad* Date: 10/04/24

29366

A.A. COC No.:

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 Fax: 818-998-7258

Client: Haley & Aldrich Inc	**Project Name / No.:** Cooper Drum	**Sampler's Name:** Riley Artim
Project Manager: C. Tsiatsios	**Site Address:** 9313 Rayo Avenue	**Sampler's Signature:**
Phone: 714-371-1820	**City:** South Gate	**P.O.No:** 130072
Fax: -	**State & Zip:** CA	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260 B	827 1,4 Dioxane	524 SIM									Special Instructions
						Please enter the TAT Turnaround Codes ** below											
HT-INF- 100324	4J03019-01	10/3/24	1150	W	7	X	X	X									
Total-EFF- 100324	-02	10/3/24	1159	W	7	X	X	X									

SAMPLE INTEGRITY INTACT (Y) N TEMP 1.3°C

2406T 3 4:43PM

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 10/4/24 Time 0600 TAT N Days Sign:		10/3/24	1228	
	Relinquished by	Date	Time	Received by
		10/3/24	4:43	
A.A. Project No.: A874668 / 4J03019	Relinquished by	Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
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November 22, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874669 / 4K05013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/05/24 17:08 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-110524	4K05013-01	Water	10	11/05/24 11:55	11/05/24 17:08
HT-EFF-110524	4K05013-02	Water	10	11/05/24 11:59	11/05/24 17:08
8270CM 1,4-Dioxane Only					
HT-INF-110524	4K05013-01	Water	10	11/05/24 11:55	11/05/24 17:08
HT-EFF-110524	4K05013-02	Water	10	11/05/24 11:59	11/05/24 17:08

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874669
Project No:	130072-024	**Date Received:**	11/05/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	11/22/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	11/05/24	11/05/24		
Date Prepared:	11/12/24	11/12/24		
Date Analyzed:	11/14/24	11/14/24		
AA ID No:	4K05013-01	4K05013-02		
Client ID No:	HT-INF-110524	HT-EFF-110524		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**2.2**	**2.6**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	114%	96.8%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24
Units: ug/L

Date Sampled:	11/05/24	11/05/24		
Date Prepared:	11/06/24	11/06/24		
Date Analyzed:	11/07/24	11/06/24		
AA ID No:	4K05013-01	4K05013-02		
Client ID No:	HT-INF-110524	HT-EFF-110524		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**0.79**	**0.68**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	<0.20	<0.20	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24
Units: ug/L

Date Sampled:	11/05/24	11/05/24		
Date Prepared:	11/06/24	11/06/24		
Date Analyzed:	11/07/24	11/06/24		
AA ID No:	4K05013-01	4K05013-02		
Client ID No:	HT-INF-110524	HT-EFF-110524		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	**0.34 J**	**0.34 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**1.5**	**1.8**	0.20	0.50
cis-1,2-Dichloroethylene	**29**	**29**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**7.5**	**6.3**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	**0.45 J**	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24
Units: ug/L

Date Sampled:	11/05/24	11/05/24		
Date Prepared:	11/06/24	11/06/24		
Date Analyzed:	11/07/24	11/06/24		
AA ID No:	4K05013-01	4K05013-02		
Client ID No:	HT-INF-110524	HT-EFF-110524		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.54**	**0.48 J**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**1.6**	**1.0**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	86.6%	88.4%		80-129
Dibromofluoromethane	80.5%	91.5%		68-137
Toluene-d8	94.8%	91.5%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4K1332 - EPA 3510C_MS										
Blank (B4K1332-BLK1)				Prepared: 11/12/24 Analyzed: 11/14/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*130*		*ug/L*	*200*		*65.1*	*50-150*			
LCS (B4K1332-BS1)				Prepared: 11/12/24 Analyzed: 11/14/24						
1,4-Dioxane	**34.8**	0.50	ug/L	40.0		87.0	75-125			
Surrogate: 1,4-Dioxane-d8	*229*		*ug/L*	*200*		*114*	*50-150*			
LCS Dup (B4K1332-BSD1)				Prepared: 11/12/24 Analyzed: 11/14/24						
1,4-Dioxane	**32.8**	0.50	ug/L	40.0		82.0	75-125	5.92	30	
Surrogate: 1,4-Dioxane-d8	*182*		*ug/L*	*200*		*90.8*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
Blank (B4K0622-BLK1)				Prepared & Analyzed: 11/06/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
Blank (B4K0622-BLK1) Continued				Prepared & Analyzed: 11/06/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
Blank (B4K0622-BLK1) Continued				Prepared & Analyzed: 11/06/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*43.1*		*ug/L*	*50.0*		*86.3*	*80-129*			
Surrogate: Dibromofluoromethane	*40.3*		*ug/L*	*50.0*		*80.6*	*68-137*			
Surrogate: Toluene-d8	*46.8*		*ug/L*	*50.0*		*93.5*	*83-134*			
LCS (B4K0622-BS1)				Prepared & Analyzed: 11/06/24						
Acetone	**17.6**	7.7	ug/L	20.0		87.8	27-123			J
Benzene	**17.4**	0.40	ug/L	20.0		86.8	60-134			
Bromobenzene	**21.1**	0.40	ug/L	20.0		105	70-130			
Bromochloromethane	**17.3**	0.20	ug/L	20.0		86.4	78-121			
Bromodichloromethane	**15.8**	0.40	ug/L	20.0		78.9	74-135			
Bromoform	**21.4**	0.40	ug/L	20.0		107	68-132			
Bromomethane	**15.6**	0.30	ug/L	20.0		77.9	58-142			
2-Butanone (MEK)	**17.0**	8.6	ug/L	20.0		84.9	62-138			J
tert-Butylbenzene	**20.1**	0.20	ug/L	20.0		101	70-130			
n-Butylbenzene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
sec-Butylbenzene	**19.7**	0.20	ug/L	20.0		98.6	84-142			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
LCS (B4K0622-BS1) Continued				Prepared & Analyzed: 11/06/24						
Carbon Disulfide	**15.1**	0.20	ug/L	20.0		75.4	17-177			
Carbon Tetrachloride	**17.3**	0.30	ug/L	20.0		86.6	66-155			
Chlorobenzene	**19.9**	0.40	ug/L	20.0		99.3	70-130			
Chloroethane	**17.8**	0.40	ug/L	20.0		89.2	45-166			
Chloroform	**15.5**	0.30	ug/L	20.0		77.5	71-131			
Chloromethane	**16.8**	0.40	ug/L	20.0		84.1	48-152			
4-Chlorotoluene	**18.3**	0.20	ug/L	20.0		91.5	70-130			
2-Chlorotoluene	**19.4**	0.20	ug/L	20.0		97.0	70-130			
1,2-Dibromo-3-chloropropane	**15.5**	0.40	ug/L	20.0		77.4	53-145			
Dibromochloromethane	**19.8**	0.40	ug/L	20.0		99.0	72-133			
1,2-Dibromoethane (EDB)	**17.8**	0.40	ug/L	20.0		89.0	79-120			
Dibromomethane	**15.4**	0.40	ug/L	20.0		77.2	68-124			
1,3-Dichlorobenzene	**20.6**	0.40	ug/L	20.0		103	70-130			
1,4-Dichlorobenzene	**20.7**	0.30	ug/L	20.0		104	70-130			
1,2-Dichlorobenzene	**21.0**	0.30	ug/L	20.0		105	70-130			
Dichlorodifluoromethane (R12)	**17.0**	0.40	ug/L	20.0		85.2	16-148			
1,1-Dichloroethane	**15.9**	0.20	ug/L	20.0		79.6	67-120			
1,2-Dichloroethane (EDC)	**15.1**	0.20	ug/L	20.0		75.4	57-156			
cis-1,2-Dichloroethylene	**17.2**	0.30	ug/L	20.0		86.2	70-124			
1,1-Dichloroethylene	**18.5**	0.40	ug/L	20.0		92.7	50-149			
trans-1,2-Dichloroethylene	**18.3**	0.30	ug/L	20.0		91.5	66-126			
1,3-Dichloropropane	**17.4**	0.40	ug/L	20.0		87.2	79-113			
1,2-Dichloropropane	**15.6**	0.30	ug/L	20.0		78.0	53-139			
2,2-Dichloropropane	**16.4**	0.30	ug/L	20.0		82.0	44-162			
trans-1,3-Dichloropropylene	**17.9**	0.30	ug/L	20.0		89.6	76-121			
1,1-Dichloropropylene	**16.2**	0.30	ug/L	20.0		81.0	84-124			QL-06
cis-1,3-Dichloropropylene	**16.4**	0.40	ug/L	20.0		82.1	67-127			
Ethylbenzene	**20.3**	0.30	ug/L	20.0		101	86-124			
Hexachlorobutadiene	**22.8**	0.50	ug/L	20.0		114	76-140			
2-Hexanone (MBK)	**15.8**	8.4	ug/L	20.0		78.8	52-123			J
Isopropylbenzene	**19.4**	0.30	ug/L	20.0		97.0	70-130			
4-Isopropyltoluene	**20.7**	0.30	ug/L	20.0		103	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
LCS (B4K0622-BS1) Continued				Prepared & Analyzed: 11/06/24						
Methyl-tert-Butyl Ether (MTBE)	**31.3**	1.2	ug/L	40.0		78.4	58-144			
Methylene Chloride	**17.0**	4.4	ug/L	20.0		85.2	50-135			
4-Methyl-2-pentanone (MIBK)	**18.0**	9.8	ug/L	20.0		89.8	49-139			J
Naphthalene	**20.2**	0.40	ug/L	20.0		101	74-128			
n-Propylbenzene	**19.6**	0.20	ug/L	20.0		98.0	70-130			
Styrene	**19.8**	0.20	ug/L	20.0		98.8	84-123			
1,1,1,2-Tetrachloroethane	**20.0**	0.30	ug/L	20.0		99.8	70-130			
1,1,2,2-Tetrachloroethane	**16.3**	0.40	ug/L	20.0		81.6	58-126			
Tetrachloroethylene (PCE)	**22.1**	0.50	ug/L	20.0		110	70-130			
Toluene	**19.7**	0.20	ug/L	20.0		98.5	83-118			
1,2,4-Trichlorobenzene	**21.7**	0.30	ug/L	20.0		109	84-128			
1,2,3-Trichlorobenzene	**20.4**	0.50	ug/L	20.0		102	77-134			
1,1,2-Trichloroethane	**17.3**	0.30	ug/L	20.0		86.6	75-115			
1,1,1-Trichloroethane	**16.2**	0.30	ug/L	20.0		81.0	66-158			
Trichloroethylene (TCE)	**16.6**	0.30	ug/L	20.0		83.2	82-128			
Trichlorofluoromethane (R11)	**17.6**	0.40	ug/L	20.0		87.9	65-137			
1,2,3-Trichloropropane	**15.6**	0.20	ug/L	20.0		78.1	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**9.84**	0.30	ug/L	20.0		49.2	62-130			QL-02
1,2,4-Trimethylbenzene	**21.2**	0.30	ug/L	20.0		106	70-130			
1,3,5-Trimethylbenzene	**19.2**	0.20	ug/L	20.0		96.2	70-130			
Vinyl chloride	**22.9**	0.40	ug/L	20.0		115	51-151			
o-Xylene	**19.1**	0.30	ug/L	20.0		95.5	70-130			
m,p-Xylenes	**39.4**	0.60	ug/L	40.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*43.0*		*ug/L*	*50.0*		*86.1*	*80-129*			
Surrogate: Dibromofluoromethane	*39.1*		*ug/L*	*50.0*		*78.3*	*68-137*			
Surrogate: Toluene-d8	*46.1*		*ug/L*	*50.0*		*92.2*	*83-134*			
LCS Dup (B4K0622-BSD1)				Prepared & Analyzed: 11/06/24						
Acetone	**20.1**	7.7	ug/L	20.0		101	27-123	13.6	30	J
Benzene	**17.6**	0.40	ug/L	20.0		88.0	60-134	1.37	30	
Bromobenzene	**22.9**	0.40	ug/L	20.0		115	70-130	8.41	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
LCS Dup (B4K0622-BSD1) Continued				Prepared & Analyzed: 11/06/24						
Bromochloromethane	**18.5**	0.20	ug/L	20.0		92.6	78-121	6.82	30	
Bromodichloromethane	**17.0**	0.40	ug/L	20.0		85.2	74-135	7.62	30	
Bromoform	**23.8**	0.40	ug/L	20.0		119	68-132	10.6	30	
Bromomethane	**15.0**	0.30	ug/L	20.0		75.2	58-142	3.59	30	
2-Butanone (MEK)	**15.6**	8.6	ug/L	20.0		78.0	62-138	8.41	30	J
tert-Butylbenzene	**21.5**	0.20	ug/L	20.0		107	70-130	6.49	30	
n-Butylbenzene	**20.2**	0.20	ug/L	20.0		101	70-130	3.21	30	
sec-Butylbenzene	**21.1**	0.20	ug/L	20.0		105	84-142	6.57	30	
Carbon Disulfide	**15.0**	0.20	ug/L	20.0		75.2	17-177	0.266	30	
Carbon Tetrachloride	**16.9**	0.30	ug/L	20.0		84.6	66-155	2.45	30	
Chlorobenzene	**20.2**	0.40	ug/L	20.0		101	70-130	1.50	30	
Chloroethane	**17.5**	0.40	ug/L	20.0		87.4	45-166	1.93	30	
Chloroform	**15.8**	0.30	ug/L	20.0		79.2	71-131	2.23	30	
Chloromethane	**16.0**	0.40	ug/L	20.0		79.8	48-152	5.18	30	
4-Chlorotoluene	**19.1**	0.20	ug/L	20.0		95.4	70-130	4.12	30	
2-Chlorotoluene	**20.0**	0.20	ug/L	20.0		99.9	70-130	2.95	30	
1,2-Dibromo-3-chloropropane	**17.5**	0.40	ug/L	20.0		87.5	53-145	12.3	30	
Dibromochloromethane	**21.7**	0.40	ug/L	20.0		109	72-133	9.20	30	
1,2-Dibromoethane (EDB)	**19.1**	0.40	ug/L	20.0		95.6	79-120	7.10	30	
Dibromomethane	**16.4**	0.40	ug/L	20.0		82.2	68-124	6.15	30	
1,3-Dichlorobenzene	**21.7**	0.40	ug/L	20.0		109	70-130	5.19	30	
1,4-Dichlorobenzene	**22.1**	0.30	ug/L	20.0		111	70-130	6.54	30	
1,2-Dichlorobenzene	**22.2**	0.30	ug/L	20.0		111	70-130	5.84	30	
Dichlorodifluoromethane (R12)	**16.7**	0.40	ug/L	20.0		83.6	16-148	1.84	30	
1,1-Dichloroethane	**15.8**	0.20	ug/L	20.0		79.0	67-120	0.694	30	
1,2-Dichloroethane (EDC)	**15.5**	0.20	ug/L	20.0		77.5	57-156	2.68	30	
cis-1,2-Dichloroethylene	**17.4**	0.30	ug/L	20.0		86.8	70-124	0.809	30	
1,1-Dichloroethylene	**17.8**	0.40	ug/L	20.0		89.0	50-149	4.07	30	
trans-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		88.8	66-126	3.05	30	
1,3-Dichloropropane	**18.9**	0.40	ug/L	20.0		94.4	79-113	7.93	30	
1,2-Dichloropropane	**16.7**	0.30	ug/L	20.0		83.4	53-139	6.63	30	
2,2-Dichloropropane	**15.1**	0.30	ug/L	20.0		75.4	44-162	8.45	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
LCS Dup (B4K0622-BSD1) Continued				Prepared & Analyzed: 11/06/24						
trans-1,3-Dichloropropylene	**18.7**	0.30	ug/L	20.0		93.4	76-121	4.16	30	
1,1-Dichloropropylene	**16.2**	0.30	ug/L	20.0		81.1	84-124	0.185	30	QL-06
cis-1,3-Dichloropropylene	**17.2**	0.40	ug/L	20.0		85.8	67-127	4.41	30	
Ethylbenzene	**20.5**	0.30	ug/L	20.0		102	86-124	1.03	30	
Hexachlorobutadiene	**23.7**	0.50	ug/L	20.0		119	76-140	3.74	30	
2-Hexanone (MBK)	**17.2**	8.4	ug/L	20.0		86.2	52-123	9.09	30	J
Isopropylbenzene	**20.4**	0.30	ug/L	20.0		102	70-130	5.12	30	
4-Isopropyltoluene	**22.2**	0.30	ug/L	20.0		111	70-130	7.13	30	
Methyl-tert-Butyl Ether (MTBE)	**32.6**	1.2	ug/L	40.0		81.4	58-144	3.79	30	
Methylene Chloride	**17.6**	4.4	ug/L	20.0		87.8	50-135	3.00	30	
4-Methyl-2-pentanone (MIBK)	**21.3**	9.8	ug/L	20.0		106	49-139	16.8	30	
Naphthalene	**25.3**	0.40	ug/L	20.0		127	74-128	22.4	30	
n-Propylbenzene	**20.4**	0.20	ug/L	20.0		102	70-130	3.75	30	
Styrene	**20.8**	0.20	ug/L	20.0		104	84-123	5.37	30	
1,1,1,2-Tetrachloroethane	**21.7**	0.30	ug/L	20.0		108	70-130	8.22	30	
1,1,2,2-Tetrachloroethane	**19.4**	0.40	ug/L	20.0		97.0	58-126	17.1	30	
Tetrachloroethylene (PCE)	**22.0**	0.50	ug/L	20.0		110	70-130	0.636	30	
Toluene	**20.0**	0.20	ug/L	20.0		99.8	83-118	1.26	30	
1,2,4-Trichlorobenzene	**22.3**	0.30	ug/L	20.0		111	84-128	2.64	30	
1,2,3-Trichlorobenzene	**22.9**	0.50	ug/L	20.0		114	77-134	11.7	30	
1,1,2-Trichloroethane	**19.3**	0.30	ug/L	20.0		96.4	75-115	10.7	30	
1,1,1-Trichloroethane	**15.9**	0.30	ug/L	20.0		79.3	66-158	2.18	30	
Trichloroethylene (TCE)	**16.7**	0.30	ug/L	20.0		83.6	82-128	0.539	30	
Trichlorofluoromethane (R11)	**16.4**	0.40	ug/L	20.0		81.8	65-137	7.13	30	
1,2,3-Trichloropropane	**18.6**	0.20	ug/L	20.0		92.8	68-123	17.3	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**16.7**	0.30	ug/L	20.0		83.4	62-130	51.5	30	
1,2,4-Trimethylbenzene	**22.0**	0.30	ug/L	20.0		110	70-130	3.84	30	
1,3,5-Trimethylbenzene	**20.2**	0.20	ug/L	20.0		101	70-130	5.07	30	
Vinyl chloride	**21.6**	0.40	ug/L	20.0		108	51-151	6.02	30	
o-Xylene	**19.4**	0.30	ug/L	20.0		97.0	70-130	1.51	30	
m,p-Xylenes	**39.5**	0.60	ug/L	40.0		98.8	70-130	0.355	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874669
Date Received: 11/05/24
Date Reported: 11/22/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4K0622 - EPA 5030B										
LCS Dup (B4K0622-BSD1) Continued				Prepared & Analyzed: 11/06/24						
Surrogate: 4-Bromofluorobenzene	*43.7*		*ug/L*	*50.0*		*87.4*	*80-129*			
Surrogate: Dibromofluoromethane	*39.8*		*ug/L*	*50.0*		*79.6*	*68-137*			
Surrogate: Toluene-d8	*46.0*		*ug/L*	*50.0*		*92.0*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874669
Project No:	130072-024	**Date Received:**	11/05/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	11/22/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = QL-02 : The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.

[2] = QL-06 : The recovery for this analyte in the LCS and LCSD is marginally above the upper control limit, therefore the reported concentration for this analyte may be biased high.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4K06041

Project Name: American Analytics
Project Number: A874669 / 4K05013

P.O. #: SUB04857-A874669

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 11/15/2024
Received Date: 11/6/2024 11:20 am
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4K05013-01

4K06041-01 (Water) Sampled: 11/05/24 11:55 by

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K0514 **Preparation:** EPA 5030B			**Prepared:** 11/07/24 08:20				**Analyst:** JAN
1,2,3-Trichloropropane	0.029	0.0012	0.0050	ug/l	1	11/07/24	

Sample: 4K05013-02

4K06041-02 (Water) Sampled: 11/05/24 11:59 by

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4K0515 **Preparation:** EPA 5030B			**Prepared:** 11/07/24 08:26				**Analyst:** JAN
1,2,3-Trichloropropane	0.028	0.0012	0.0050	ug/l	1	11/07/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Blank (W4K0514-BLK1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4K0514-BS1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0193	0.0012	0.0050	ug/l	0.0200		96	80-120			
LCS Dup (W4K0514-BSD1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0196	0.0012	0.0050	ug/l	0.0200		98	80-120	2	20	
Duplicate (W4K0514-DUP1)	Source: 4K06041-01				Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0294	0.0012	0.0050	ug/l		*0.0291*			0.9	20	
Blank (W4K0515-BLK1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4K0515-BS1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0189	0.0012	0.0050	ug/l	0.0200		94	80-120			
LCS Dup (W4K0515-BSD1)					Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0210	0.0012	0.0050	ug/l	0.0200		105	80-120	11	20	
Duplicate (W4K0515-DUP1)	Source: 4K06041-02				Prepared & Analyzed: 11/07/24						
1,2,3-Trichloropropane	0.0271	0.0012	0.0050	ug/l		*0.0280*			3	20	

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

4K06041

A.A. CODING

WECK

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 Fax: 818-998-7258

Client: American Analytics, Inc	**Project Name / No.: A874669/4K05013**	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone: 818-998-5547 x320	**City:**	**P.O.No: SUB04857-A874669**
Fax:	**State & Zip:**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	1,2,3-TCP	Special Instructions
						Please enter the TAT Turnaround Codes ** below	
4K05013-01		11/5/2024	11:55	W	3	X	
4K05013-02		11/5/2024	11:59	W	3	X	
							Please report J-flags
							EQUIS edd needed
							Standard TAT

For Laboratory Use	Relinquished by	Date	Time	Received by
5.7		11/6/24	11:20	11/6/24 11:20
f·0248	Relinquished by	Date	Time	Received by
	Relinquished by	Date	Time	Received by
A.A. Project No.:				

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

JY 11/6/24

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: 4K06041
WKO Logged by: Jaime Gomez
Samples Checked by: Jaime Gomez

Date/Time Received: 11/05/24 11:20
of Samples: 02
Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	5.7 °C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified about receipt info?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐<6mm/Pea Size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	☐	☐	☒	pH paper Lot#
	Free Chlorine Tested <0.1 (Organics Analyses)	☐	☒	☐	Cl Test Strip Lot#
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	☐	☐	☐	

PM Comments

Sample Receipt Checklist Completed by:

Signature: Jaime Gomez Date: 11/05/24

AMERICAN ANALYTICS C[illegible]N-OF-CUSTODY RECORD

A.A. COC No

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 Fax: 818-998-7258

Client: Haley & Aldrich Inc	**Project Name / No.: Cooper Drum**	**Sampler's Name:** Riley Ashton
Project Manager: C. Tsiatsios	**Site Address: 9313 Rayo Avenue**	**Sampler's Signature:**
Phone: 714-371-1820	**City: South Gate**	**P.O.No: 130072**
Fax: -	**State & Zip: CA**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260 B	827 1,4 Dioxane	524 SIM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Special Instructions
						Please enter the TAT Turnaround Codes ** below											
HT-INF- 110524	4K05013-01	11/05/24	11:55	W	7	X	X	X									
Total-EFF- 110524	-02	11/05/24	11:59	W	7	X	X	X									

SAMPLE INTEGRITY INTACT (Y) N TEMP 3.2°C

24 NOV 5 1700

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 11/6/24 Time 0600 TAT N Days Sign:	Riley Ashton	11/05/24	1217	
		11/5/24	1708	
A.A. Project No.: A87669 / 4K05013		Date	Time	

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 18, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874676 / 4L09024

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/09/24 16:16 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
8260B					
HT-INF-120924	4L09024-01	Water	10	12/09/24 10:35	12/09/24 16:16
Total-EFF-120924	4L09024-02	Water	10	12/09/24 10:40	12/09/24 16:16
8270CM 1,4-Dioxane Only					
HT-INF-120924	4L09024-01	Water	10	12/09/24 10:35	12/09/24 16:16
Total-EFF-120924	4L09024-02	Water	10	12/09/24 10:40	12/09/24 16:16

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874676
Project No:	130072-024	**Date Received:**	12/09/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	12/18/24
Method:	EPA 8270CM 1,4-Dioxane	**Units:**	ug/L

Date Sampled:	12/09/24	12/09/24		
Date Prepared:	12/11/24	12/11/24		
Date Analyzed:	12/14/24	12/14/24		
AA ID No:	4L09024-01	4L09024-02		
Client ID No:	HT-INF-120924	Total-EFF-120924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8270CM 1,4-Dioxane Only (EPA 8270CM)				
1,4-Dioxane	**3.2**	**3.2**	0.50	1.0
Surrogates			**%REC Limits**	
1,4-Dioxane-d8	107%	69.3%	50-150	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	12/09/24	12/09/24		
Date Prepared:	12/13/24	12/13/24		
Date Analyzed:	12/13/24	12/13/24		
AA ID No:	4L09024-01	4L09024-02		
Client ID No:	HT-INF-120924	Total-EFF-120924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B)				
Acetone	<7.7	<7.7	7.7	50
Benzene	**0.72**	**0.57**	0.40	0.50
Bromobenzene	<0.40	<0.40	0.40	0.50
Bromochloromethane	<0.20	<0.20	0.20	0.50
Bromodichloromethane	<0.40	<0.40	0.40	0.50
Bromoform	<0.40	<0.40	0.40	0.50
Bromomethane	<0.30	<0.30	0.30	0.50
2-Butanone (MEK)	<8.6	<8.6	8.6	20
tert-Butylbenzene	<0.20	<0.20	0.20	0.50
n-Butylbenzene	<0.20	<0.20	0.20	0.50
sec-Butylbenzene	<0.20	<0.20	0.20	0.50
Carbon Disulfide	**0.23 J [1]**	**0.23 J [1]**	0.20	0.50
Carbon Tetrachloride	<0.30	<0.30	0.30	0.50
Chlorobenzene	<0.40	<0.40	0.40	0.50
Chloroethane	<0.40	<0.40	0.40	0.50
Chloroform	<0.30	<0.30	0.30	0.50
Chloromethane	<0.40	<0.40	0.40	0.50
4-Chlorotoluene	<0.20	<0.20	0.20	0.50
2-Chlorotoluene	<0.20	<0.20	0.20	0.50
1,2-Dibromo-3-chloropropane	<0.40	<0.40	0.40	1.0
Dibromochloromethane	<0.40	<0.40	0.40	0.50
1,2-Dibromoethane (EDB)	<0.40	<0.40	0.40	0.50
Dibromomethane	<0.40	<0.40	0.40	0.50
1,3-Dichlorobenzene	<0.40	<0.40	0.40	0.50
1,4-Dichlorobenzene	<0.30	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	<0.30	0.30	0.50
Dichlorodifluoromethane (R12)	<0.40	<0.40	0.40	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	12/09/24	12/09/24		
Date Prepared:	12/13/24	12/13/24		
Date Analyzed:	12/13/24	12/13/24		
AA ID No:	4L09024-01	4L09024-02		
Client ID No:	HT-INF-120924	Total-EFF-120924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,1-Dichloroethane	**0.39 J**	**0.34 J**	0.20	0.50
1,2-Dichloroethane (EDC)	**1.8**	**1.7**	0.20	0.50
cis-1,2-Dichloroethylene	**27**	**24**	0.30	0.50
1,1-Dichloroethylene	<0.40	<0.40	0.40	0.50
trans-1,2-Dichloroethylene	**6.4**	**5.0**	0.30	0.50
1,3-Dichloropropane	<0.40	<0.40	0.40	0.50
1,2-Dichloropropane	<0.30	<0.30	0.30	0.50
2,2-Dichloropropane	<0.30	<0.30	0.30	0.50
trans-1,3-Dichloropropylene	<0.30	<0.30	0.30	0.50
1,1-Dichloropropylene	<0.30	<0.30	0.30	0.50
cis-1,3-Dichloropropylene	<0.40	<0.40	0.40	0.50
Ethylbenzene	<0.30	<0.30	0.30	0.50
Hexachlorobutadiene	<0.50	<0.50	0.50	1.0
2-Hexanone (MBK)	<8.4	<8.4	8.4	20
Isopropylbenzene	<0.30	<0.30	0.30	0.50
4-Isopropyltoluene	<0.30	<0.30	0.30	1.0
Methyl-tert-Butyl Ether (MTBE)	<1.2	<1.2	1.2	2.0
Methylene Chloride	<4.4	<4.4	4.4	5.0
4-Methyl-2-pentanone (MIBK)	<9.8	<9.8	9.8	20
Naphthalene	<0.40	<0.40	0.40	2.0
n-Propylbenzene	<0.20	<0.20	0.20	0.50
Styrene	<0.20	<0.20	0.20	0.50
1,1,1,2-Tetrachloroethane	<0.30	<0.30	0.30	0.50
1,1,2,2-Tetrachloroethane	<0.40	<0.40	0.40	0.50
Tetrachloroethylene (PCE)	<0.50	<0.50	0.50	0.50
Toluene	<0.20	<0.20	0.20	0.50
1,2,4-Trichlorobenzene	<0.30	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate
Method: VOCs by GC/MS

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24
Units: ug/L

Date Sampled:	12/09/24	12/09/24		
Date Prepared:	12/13/24	12/13/24		
Date Analyzed:	12/13/24	12/13/24		
AA ID No:	4L09024-01	4L09024-02		
Client ID No:	HT-INF-120924	Total-EFF-120924		
Matrix:	Water	Water		
Dilution Factor:	1	1	MDL	MRL
8260B (EPA 8260B) (continued)				
1,2,3-Trichlorobenzene	<0.50	<0.50	0.50	0.50
1,1,2-Trichloroethane	<0.30	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.66**	**0.54**	0.30	0.50
Trichlorofluoromethane (R11)	<0.40	<0.40	0.40	0.50
1,2,3-Trichloropropane	<0.20	<0.20	0.20	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	<0.30	0.30	0.50
1,2,4-Trimethylbenzene	<0.30	<0.30	0.30	0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	0.20	0.50
Vinyl chloride	**1.6**	**0.96**	0.40	0.50
o-Xylene	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.60	<0.60	0.60	1.0
Surrogates				**%REC Limits**
4-Bromofluorobenzene	101%	103%		80-129
Dibromofluoromethane	92.4%	95.6%		68-137
Toluene-d8	102%	103%		83-134

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270CM 1,4-Dioxane - Quality Control										
Batch B4L1134 - EPA 3510C_MS										
Blank (B4L1134-BLK1)				Prepared: 12/11/24 Analyzed: 12/14/24						
1,4-Dioxane	<0.50	0.50	ug/L							
Surrogate: 1,4-Dioxane-d8	*149*		*ug/L*	*200*		*74.7*	*50-150*			
LCS (B4L1134-BS1)				Prepared: 12/11/24 Analyzed: 12/14/24						
1,4-Dioxane	**36.4**	0.50	ug/L	40.0		91.0	75-125			
Surrogate: 1,4-Dioxane-d8	*173*		*ug/L*	*200*		*86.3*	*50-150*			
LCS Dup (B4L1134-BSD1)				Prepared: 12/11/24 Analyzed: 12/14/24						
1,4-Dioxane	**36.8**	0.50	ug/L	40.0		92.0	75-125	1.09	30	
Surrogate: 1,4-Dioxane-d8	*165*		*ug/L*	*200*		*82.4*	*50-150*			
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
Blank (B4L1302-BLK1)				Prepared & Analyzed: 12/13/24						
Acetone	<7.7	7.7	ug/L							
Benzene	<0.40	0.40	ug/L							
Bromobenzene	<0.40	0.40	ug/L							
Bromochloromethane	<0.20	0.20	ug/L							
Bromodichloromethane	<0.40	0.40	ug/L							
Bromoform	<0.40	0.40	ug/L							
Bromomethane	<0.30	0.30	ug/L							
2-Butanone (MEK)	<8.6	8.6	ug/L							
tert-Butylbenzene	<0.20	0.20	ug/L							
n-Butylbenzene	<0.20	0.20	ug/L							
sec-Butylbenzene	<0.20	0.20	ug/L							
Carbon Disulfide	<0.20	0.20	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.40	0.40	ug/L							
Chloroethane	<0.40	0.40	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
4-Chlorotoluene	<0.20	0.20	ug/L							
2-Chlorotoluene	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
Blank (B4L1302-BLK1) Continued				Prepared & Analyzed: 12/13/24						
1,2-Dibromo-3-chloropropane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.40	0.40	ug/L							
1,2-Dibromoethane (EDB)	<0.40	0.40	ug/L							
Dibromomethane	<0.40	0.40	ug/L							
1,3-Dichlorobenzene	<0.40	0.40	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
Dichlorodifluoromethane (R12)	<0.40	0.40	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.20	0.20	ug/L							
cis-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,1-Dichloroethylene	<0.40	0.40	ug/L							
trans-1,2-Dichloroethylene	<0.30	0.30	ug/L							
1,3-Dichloropropane	<0.40	0.40	ug/L							
1,2-Dichloropropane	<0.30	0.30	ug/L							
2,2-Dichloropropane	<0.30	0.30	ug/L							
trans-1,3-Dichloropropylene	<0.30	0.30	ug/L							
1,1-Dichloropropylene	<0.30	0.30	ug/L							
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L							
Ethylbenzene	<0.30	0.30	ug/L							
Hexachlorobutadiene	<0.50	0.50	ug/L							
2-Hexanone (MBK)	<8.4	8.4	ug/L							
Isopropylbenzene	<0.30	0.30	ug/L							
4-Isopropyltoluene	<0.30	0.30	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.2	1.2	ug/L							
Methylene Chloride	<4.4	4.4	ug/L							
4-Methyl-2-pentanone (MIBK)	<9.8	9.8	ug/L							
Naphthalene	<0.40	0.40	ug/L							
n-Propylbenzene	<0.20	0.20	ug/L							
Styrene	<0.20	0.20	ug/L							
1,1,1,2-Tetrachloroethane	<0.30	0.30	ug/L							
1,1,2,2-Tetrachloroethane	<0.40	0.40	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
Blank (B4L1302-BLK1) Continued				Prepared & Analyzed: 12/13/24						
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.20	0.20	ug/L							
1,2,4-Trichlorobenzene	<0.30	0.30	ug/L							
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.30	0.30	ug/L							
Trichlorofluoromethane (R11)	<0.40	0.40	ug/L							
1,2,3-Trichloropropane	<0.20	0.20	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.30	0.30	ug/L							
1,2,4-Trimethylbenzene	<0.30	0.30	ug/L							
1,3,5-Trimethylbenzene	<0.20	0.20	ug/L							
Vinyl chloride	<0.40	0.40	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.60	0.60	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.4*		*ug/L*	*50.0*		*101*	*80-129*			
Surrogate: Dibromofluoromethane	*48.9*		*ug/L*	*50.0*		*97.8*	*68-137*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99.0*	*83-134*			
LCS (B4L1302-BS1)				Prepared & Analyzed: 12/13/24						
Acetone	**21.3**	7.7	ug/L	20.0		106	27-123			J
Benzene	**20.7**	0.40	ug/L	20.0		103	60-134			
Bromobenzene	**20.1**	0.40	ug/L	20.0		100	70-130			
Bromochloromethane	**18.0**	0.20	ug/L	20.0		89.8	78-121			
Bromodichloromethane	**20.7**	0.40	ug/L	20.0		104	74-135			
Bromoform	**18.8**	0.40	ug/L	20.0		93.9	68-132			
Bromomethane	**21.9**	0.30	ug/L	20.0		110	58-142			
2-Butanone (MEK)	**16.8**	8.6	ug/L	20.0		83.8	62-138			J
tert-Butylbenzene	**22.5**	0.20	ug/L	20.0		113	70-130			
n-Butylbenzene	**23.2**	0.20	ug/L	20.0		116	70-130			
sec-Butylbenzene	**22.8**	0.20	ug/L	20.0		114	84-142			



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
LCS (B4L1302-BS1) Continued				Prepared & Analyzed: 12/13/24						
Carbon Disulfide	**22.1**	0.20	ug/L	20.0		111	17-177			
Carbon Tetrachloride	**21.1**	0.30	ug/L	20.0		105	66-155			
Chlorobenzene	**20.1**	0.40	ug/L	20.0		101	70-130			
Chloroethane	**24.0**	0.40	ug/L	20.0		120	45-166			
Chloroform	**20.3**	0.30	ug/L	20.0		102	71-131			
Chloromethane	**24.5**	0.40	ug/L	20.0		122	48-152			
4-Chlorotoluene	**21.4**	0.20	ug/L	20.0		107	70-130			
2-Chlorotoluene	**20.9**	0.20	ug/L	20.0		104	70-130			
1,2-Dibromo-3-chloropropane	**18.5**	0.40	ug/L	20.0		92.3	53-145			
Dibromochloromethane	**19.2**	0.40	ug/L	20.0		96.0	72-133			
1,2-Dibromoethane (EDB)	**18.4**	0.40	ug/L	20.0		91.8	79-120			
Dibromomethane	**18.4**	0.40	ug/L	20.0		92.0	68-124			
1,3-Dichlorobenzene	**20.1**	0.40	ug/L	20.0		100	70-130			
1,4-Dichlorobenzene	**19.6**	0.30	ug/L	20.0		98.0	70-130			
1,2-Dichlorobenzene	**19.5**	0.30	ug/L	20.0		97.6	70-130			
Dichlorodifluoromethane (R12)	**25.3**	0.40	ug/L	20.0		127	16-148			
1,1-Dichloroethane	**20.4**	0.20	ug/L	20.0		102	67-120			
1,2-Dichloroethane (EDC)	**19.0**	0.20	ug/L	20.0		94.9	57-156			
cis-1,2-Dichloroethylene	**19.8**	0.30	ug/L	20.0		99.0	70-124			
1,1-Dichloroethylene	**20.5**	0.40	ug/L	20.0		102	50-149			
trans-1,2-Dichloroethylene	**20.7**	0.30	ug/L	20.0		104	66-126			
1,3-Dichloropropane	**18.3**	0.40	ug/L	20.0		91.4	79-113			
1,2-Dichloropropane	**19.6**	0.30	ug/L	20.0		98.0	53-139			
2,2-Dichloropropane	**20.0**	0.30	ug/L	20.0		100	44-162			
trans-1,3-Dichloropropylene	**19.6**	0.30	ug/L	20.0		98.2	76-121			
1,1-Dichloropropylene	**20.6**	0.30	ug/L	20.0		103	84-124			
cis-1,3-Dichloropropylene	**20.5**	0.40	ug/L	20.0		102	67-127			
Ethylbenzene	**20.8**	0.30	ug/L	20.0		104	86-124			
Hexachlorobutadiene	**21.0**	0.50	ug/L	20.0		105	76-140			
2-Hexanone (MBK)	**16.5**	8.4	ug/L	20.0		82.6	52-123			J
Isopropylbenzene	**22.9**	0.30	ug/L	20.0		114	70-130			
4-Isopropyltoluene	**23.2**	0.30	ug/L	20.0		116	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
LCS (B4L1302-BS1) Continued				Prepared & Analyzed: 12/13/24						
Methyl-tert-Butyl Ether (MTBE)	**35.9**	1.2	ug/L	40.0		89.7	58-144			
Methylene Chloride	**19.0**	4.4	ug/L	20.0		95.2	50-135			
4-Methyl-2-pentanone (MIBK)	**15.9**	9.8	ug/L	20.0		79.6	49-139			J
Naphthalene	**17.5**	0.40	ug/L	20.0		87.4	74-128			
n-Propylbenzene	**23.1**	0.20	ug/L	20.0		116	70-130			
Styrene	**20.5**	0.20	ug/L	20.0		102	84-123			
1,1,1,2-Tetrachloroethane	**19.8**	0.30	ug/L	20.0		99.2	70-130			
1,1,2,2-Tetrachloroethane	**18.0**	0.40	ug/L	20.0		90.0	58-126			
Tetrachloroethylene (PCE)	**19.0**	0.50	ug/L	20.0		95.2	70-130			
Toluene	**20.2**	0.20	ug/L	20.0		101	83-118			
1,2,4-Trichlorobenzene	**19.0**	0.30	ug/L	20.0		94.9	84-128			
1,2,3-Trichlorobenzene	**17.8**	0.50	ug/L	20.0		88.8	77-134			
1,1,2-Trichloroethane	**18.6**	0.30	ug/L	20.0		93.2	75-115			
1,1,1-Trichloroethane	**21.2**	0.30	ug/L	20.0		106	66-158			
Trichloroethylene (TCE)	**20.0**	0.30	ug/L	20.0		100	82-128			
Trichlorofluoromethane (R11)	**22.3**	0.40	ug/L	20.0		112	65-137			
1,2,3-Trichloropropane	**17.3**	0.20	ug/L	20.0		86.5	68-123			
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**13.3**	0.30	ug/L	20.0		66.6	62-130			
1,2,4-Trimethylbenzene	**22.0**	0.30	ug/L	20.0		110	70-130			
1,3,5-Trimethylbenzene	**22.4**	0.20	ug/L	20.0		112	70-130			
Vinyl chloride	**25.8**	0.40	ug/L	20.0		129	51-151			
o-Xylene	**19.4**	0.30	ug/L	20.0		97.1	70-130			
m,p-Xylenes	**40.7**	0.60	ug/L	40.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*50.4*		*ug/L*	*50.0*		*101*	*80-129*			
Surrogate: Dibromofluoromethane	*48.7*		*ug/L*	*50.0*		*97.4*	*68-137*			
Surrogate: Toluene-d8	*50.3*		*ug/L*	*50.0*		*101*	*83-134*			
LCS Dup (B4L1302-BSD1)				Prepared & Analyzed: 12/13/24						
Acetone	**21.4**	7.7	ug/L	20.0		107	27-123	0.469	30	J
Benzene	**18.2**	0.40	ug/L	20.0		91.2	60-134	12.4	30	
Bromobenzene	**19.6**	0.40	ug/L	20.0		98.0	70-130	2.32	30	



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
LCS Dup (B4L1302-BSD1) Continued				Prepared & Analyzed: 12/13/24						
Bromochloromethane	**17.6**	0.20	ug/L	20.0		88.2	78-121	1.85	30	
Bromodichloromethane	**18.2**	0.40	ug/L	20.0		90.8	74-135	13.1	30	
Bromoform	**22.3**	0.40	ug/L	20.0		111	68-132	17.0	30	
Bromomethane	**19.3**	0.30	ug/L	20.0		96.4	58-142	12.8	30	
2-Butanone (MEK)	**18.2**	8.6	ug/L	20.0		90.8	62-138	8.13	30	J
tert-Butylbenzene	**20.2**	0.20	ug/L	20.0		101	70-130	11.0	30	
n-Butylbenzene	**20.8**	0.20	ug/L	20.0		104	70-130	11.0	30	
sec-Butylbenzene	**20.4**	0.20	ug/L	20.0		102	84-142	10.7	30	
Carbon Disulfide	**19.6**	0.20	ug/L	20.0		98.0	17-177	12.0	30	
Carbon Tetrachloride	**18.6**	0.30	ug/L	20.0		93.2	66-155	12.2	30	
Chlorobenzene	**19.3**	0.40	ug/L	20.0		96.4	70-130	4.26	30	
Chloroethane	**20.2**	0.40	ug/L	20.0		101	45-166	17.3	30	
Chloroform	**17.5**	0.30	ug/L	20.0		87.7	71-131	14.6	30	
Chloromethane	**20.2**	0.40	ug/L	20.0		101	48-152	19.2	30	
4-Chlorotoluene	**19.8**	0.20	ug/L	20.0		98.9	70-130	7.82	30	
2-Chlorotoluene	**19.1**	0.20	ug/L	20.0		95.5	70-130	8.90	30	
1,2-Dibromo-3-chloropropane	**21.2**	0.40	ug/L	20.0		106	53-145	14.0	30	
Dibromochloromethane	**20.2**	0.40	ug/L	20.0		101	72-133	4.93	30	
1,2-Dibromoethane (EDB)	**20.1**	0.40	ug/L	20.0		100	79-120	9.00	30	
Dibromomethane	**17.6**	0.40	ug/L	20.0		88.2	68-124	4.22	30	
1,3-Dichlorobenzene	**19.2**	0.40	ug/L	20.0		96.2	70-130	4.22	30	
1,4-Dichlorobenzene	**19.4**	0.30	ug/L	20.0		96.8	70-130	1.28	30	
1,2-Dichlorobenzene	**19.7**	0.30	ug/L	20.0		98.7	70-130	1.07	30	
Dichlorodifluoromethane (R12)	**21.6**	0.40	ug/L	20.0		108	16-148	16.0	30	
1,1-Dichloroethane	**17.8**	0.20	ug/L	20.0		88.8	67-120	13.8	30	
1,2-Dichloroethane (EDC)	**17.7**	0.20	ug/L	20.0		88.4	57-156	7.15	30	
cis-1,2-Dichloroethylene	**17.8**	0.30	ug/L	20.0		89.2	70-124	10.5	30	
1,1-Dichloroethylene	**17.7**	0.40	ug/L	20.0		88.7	50-149	14.4	30	
trans-1,2-Dichloroethylene	**18.3**	0.30	ug/L	20.0		91.5	66-126	12.5	30	
1,3-Dichloropropane	**18.9**	0.40	ug/L	20.0		94.4	79-113	3.23	30	
1,2-Dichloropropane	**17.4**	0.30	ug/L	20.0		86.8	53-139	12.1	30	
2,2-Dichloropropane	**16.3**	0.30	ug/L	20.0		81.6	44-162	20.5	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
LCS Dup (B4L1302-BSD1) Continued				Prepared & Analyzed: 12/13/24						
trans-1,3-Dichloropropylene	**19.6**	0.30	ug/L	20.0		97.8	76-121	0.408	30	
1,1-Dichloropropylene	**18.0**	0.30	ug/L	20.0		90.0	84-124	13.2	30	
cis-1,3-Dichloropropylene	**17.9**	0.40	ug/L	20.0		89.4	67-127	13.4	30	
Ethylbenzene	**19.7**	0.30	ug/L	20.0		98.7	86-124	5.23	30	
Hexachlorobutadiene	**18.7**	0.50	ug/L	20.0		93.6	76-140	11.4	30	
2-Hexanone (MBK)	**19.3**	8.4	ug/L	20.0		96.6	52-123	15.6	30	J
Isopropylbenzene	**20.7**	0.30	ug/L	20.0		103	70-130	10.0	30	
4-Isopropyltoluene	**20.6**	0.30	ug/L	20.0		103	70-130	11.8	30	
Methyl-tert-Butyl Ether (MTBE)	**36.3**	1.2	ug/L	40.0		90.7	58-144	1.16	30	
Methylene Chloride	**17.2**	4.4	ug/L	20.0		86.0	50-135	10.2	30	
4-Methyl-2-pentanone (MIBK)	**19.4**	9.8	ug/L	20.0		96.9	49-139	19.7	30	J
Naphthalene	**20.5**	0.40	ug/L	20.0		103	74-128	16.0	30	
n-Propylbenzene	**21.4**	0.20	ug/L	20.0		107	70-130	7.92	30	
Styrene	**19.8**	0.20	ug/L	20.0		98.8	84-123	3.58	30	
1,1,1,2-Tetrachloroethane	**19.2**	0.30	ug/L	20.0		95.8	70-130	3.49	30	
1,1,2,2-Tetrachloroethane	**19.4**	0.40	ug/L	20.0		97.0	58-126	7.54	30	
Tetrachloroethylene (PCE)	**19.1**	0.50	ug/L	20.0		95.6	70-130	0.472	30	
Toluene	**19.2**	0.20	ug/L	20.0		95.9	83-118	5.23	30	
1,2,4-Trichlorobenzene	**18.9**	0.30	ug/L	20.0		94.5	84-128	0.422	30	
1,2,3-Trichlorobenzene	**18.1**	0.50	ug/L	20.0		90.6	77-134	1.90	30	
1,1,2-Trichloroethane	**19.3**	0.30	ug/L	20.0		96.4	75-115	3.38	30	
1,1,1-Trichloroethane	**18.1**	0.30	ug/L	20.0		90.7	66-158	15.7	30	
Trichloroethylene (TCE)	**17.8**	0.30	ug/L	20.0		88.8	82-128	11.8	30	
Trichlorofluoromethane (R11)	**19.6**	0.40	ug/L	20.0		98.0	65-137	13.0	30	
1,2,3-Trichloropropane	**18.9**	0.20	ug/L	20.0		94.4	68-123	8.68	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**11.6**	0.30	ug/L	20.0		57.8	62-130	14.2	30	QL-03
1,2,4-Trimethylbenzene	**20.0**	0.30	ug/L	20.0		100	70-130	9.41	30	
1,3,5-Trimethylbenzene	**20.3**	0.20	ug/L	20.0		101	70-130	10.2	30	
Vinyl chloride	**21.1**	0.40	ug/L	20.0		105	51-151	20.2	30	
o-Xylene	**19.1**	0.30	ug/L	20.0		95.3	70-130	1.87	30	
m,p-Xylenes	**38.6**	0.60	ug/L	40.0		96.5	70-130	5.30	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874676
Date Received: 12/09/24
Date Reported: 12/18/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GC/MS - Quality Control										
Batch B4L1302 - EPA 5030B										
LCS Dup (B4L1302-BSD1) Continued				Prepared & Analyzed: 12/13/24						
Surrogate: 4-Bromofluorobenzene	*49.0*		*ug/L*	*50.0*		*98.0*	*80-129*			
Surrogate: Dibromofluoromethane	*45.1*		*ug/L*	*50.0*		*90.2*	*68-137*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99.2*	*83-134*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874676
Project No:	130072-024	**Date Received:**	12/09/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	12/18/24

Special Notes

J : Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.

[1] = O-01 : This compound is a possible field or laboratory contaminant.

[2] = QL-03 : The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.

[8270CM 1,4-Dioxane Only]: California/ELAP does not currently offer certification for this method/analyte. The laboratory is certified for this method/analyte according to the TNI 2016 Standard.

Viorel Vasile
Operations Manager

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Order 4L10087

Project Name: American Analytics
Project Number: A874676/4L09024

P.O. #: SUB04884-A874676

Attn: Viorel Vasile
Client: American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report Date: 12/17/2024
Received Date: 12/10/2024 12:05 pm
Turnaround Time: Normal
Billing Code:

Phones: (818) 998-5547
Fax: (818) 998-7258

Sample Results

Sample: 4L09024-01

4L10087-01 (Water) Sampled: 12/09/24 10:35 by

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4L1109 **Preparation:** EPA 5030B			**Prepared:** 12/13/24 14:52				**Analyst:** JAN
1,2,3-Trichloropropane	0.048	0.0012	0.0050	ug/l	1	12/14/24	

Sample: 4L09024-02

4L10087-02 (Water) Sampled: 12/09/24 10:40 by

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM							
Method: SRL 524M-TCP			**Instr:** GCMS12				
Batch ID: W4L1110 **Preparation:** EPA 5030B			**Prepared:** 12/13/24 14:57				**Analyst:** JAN
1,2,3-Trichloropropane	0.043	0.0012	0.0050	ug/l	1	12/14/24	

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Blank (W4L1109-BLK1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4L1109-BS1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0220	0.0012	0.0050	ug/l	0.0200		110	80-120			
LCS Dup (W4L1109-BSD1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0207	0.0012	0.0050	ug/l	0.0200		103	80-120	6	20	
Duplicate (W4L1109-DUP1)	Source: 4L10087-01			Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0452	0.0012	0.0050	ug/l		*0.0478*			6	20	
Blank (W4L1110-BLK1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	ND	0.0012	0.0050	ug/l							
LCS (W4L1110-BS1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0217	0.0012	0.0050	ug/l	0.0200		109	80-120			
LCS Dup (W4L1110-BSD1)				Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0207	0.0012	0.0050	ug/l	0.0200		104	80-120	5	20	
Duplicate (W4L1110-DUP1)	Source: 4L10087-02			Prepared: 12/13/24 Analyzed: 12/14/24							
1,2,3-Trichloropropane	0.0439	0.0012	0.0050	ug/l		*0.0427*			3	20	

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Ryan J. Gasio
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

241814

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.

Page 1 of 1

Client: Haley & Aldrich Inc	**Project Name / No.: Cooper Drum**	**Sampler's Name:** Riley Arthur
Project Manager: C. Tsiatsios	**Site Address: 9313 Rayo Avenue**	**Sampler's Signature:**
Phone: 714-371-1820	**City: South Gate**	**P.O.No: 130072**
Fax: -	**State & Zip: CA**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260 B	1,4 Dioxane 8270 SIM	524 SIM								Special Instructions
						Please enter the TAT Turnaround Codes ** below										
HT-INF- 120924	420924-4	12/09/24	1035	W	7	x	x	x								
Total-EFF- 120924	-02	12/09/24	1040	W	7	x	x	x								

SAMPLE INTEGRITY INTACT (Y) N TEMP 1.7°C

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 12/10/24 Time 0502 TAT N Days Sign:		12/09/24	1056	
		12/9/24	1616	
A.A. Project No.: A874676/420924		Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

September 20, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - WDR Samples / 130072-024

MB874666 / 4I11007

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/11/24 14:37 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
624.1 VOCs by GC/MS					
CD-IDWP-091124	4I11007-01	Water	10	09/11/24 11:20	09/11/24 14:37
625					
CD-IDWP-091124	4I11007-01	Water	10	09/11/24 11:20	09/11/24 14:37
pH Measurement SM4500H+ B					
CD-IDWP-091124	4I11007-01	Water	10	09/11/24 11:20	09/11/24 14:37
TSS SM2540D					
CD-IDWP-091124	4I11007-01	Water	10	09/11/24 11:20	09/11/24 14:37

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/18/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625 (EPA 625)

3,3´-Dichlorobenzidine	<12	12	20
Acenaphthene	<3.0	3.0	5.0
Acenaphthylene	<3.0	3.0	5.0
Aniline	<10	10	10
Anthracene	<3.0	3.0	5.0
Azobenzene	<3.0	3.0	5.0
Benzidine	<17	17	20
Benzo(a)anthracene	<3.0	3.0	20
Benzo(a)pyrene	<3.0	3.0	5.0
Benzo(b)fluoranthene	<4.0	4.0	5.0
Benzo(g,h,i)perylene	<5.0	5.0	5.0
Benzoic acid	<5.0	5.0	50
Benzo(k)fluoranthene	<5.0	5.0	5.0
Benzyl alcohol	<7.0	7.0	10
4-Bromophenyl phenyl ether	<4.0	4.0	5.0
Butyl benzyl phthalate	<6.0	6.0	10
4-Chloro-3-methylphenol	<8.0	8.0	10
4-Chloroaniline	<7.0	7.0	20
Bis(2-chloroethoxy)methane	<5.0	5.0	5.0
Bis(2-chloroethyl)ether	<4.0	4.0	5.0
Bis(2-chloroisopropyl)ether	<5.0	5.0	5.0
2-Chloronaphthalene	<5.0	5.0	5.0
2-Chlorophenol	<5.0	5.0	5.0
4-Chlorophenyl phenyl ether	<3.0	3.0	5.0
Chrysene	<4.0	4.0	5.0
Dibenzo(a,h)anthracene	<5.0	5.0	5.0

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LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/18/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625 (EPA 625) (continued)

Dibenzofuran	<3.0	3.0	5.0
Di-n-butyl phthalate	<5.0	5.0	100
1,2-Dichlorobenzene	<2.0	2.0	5.0
1,3-Dichlorobenzene	<3.0	3.0	5.0
1,4-Dichlorobenzene	<3.0	3.0	5.0
2,4-Dichlorophenol	<5.0	5.0	5.0
Diethyl phthalate	**4.6 J**	3.0	40
2,4-Dimethylphenol	<6.0	6.0	20
Dimethyl phthalate	<3.0	3.0	10
4,6-Dinitro-2-methylphenol	<17	17	20
2,4-Dinitrophenol	<10	10	20
2,6-Dinitrotoluene	<3.0	3.0	5.0
2,4-Dinitrotoluene	<3.0	3.0	5.0
Di-n-octyl phthalate	<7.0	7.0	10
1,2-Diphenylhydrazine	<3.0	3.0	5.0
Bis(2-ethylhexyl)phthalate	<19	19	50
Fluoranthene	<4.0	4.0	5.0
Fluorene	<3.0	3.0	5.0
Hexachlorobenzene	<7.0	7.0	10
Hexachlorobutadiene	<8.0	8.0	10
Hexachlorocyclopentadiene	<6.0	6.0	10
Hexachloroethane	<3.0	3.0	5.0
Indeno (1,2,3-cd) pyrene	<5.0	5.0	20
Isophorone	<4.0	4.0	5.0
2-Methylnaphthalene	<5.0	5.0	5.0
2-Methylphenol	<4.0	4.0	10

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LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/18/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625 (EPA 625) (continued)

3-Methylphenol	<4.0	4.0	10
4-Methylphenol	<4.0	4.0	10
Naphthalene	<4.0	4.0	5.0
4-Nitroaniline	<5.0	5.0	20
3-Nitroaniline	<10	10	20
2-Nitroaniline	<4.0	4.0	20
Nitrobenzene	<5.0	5.0	5.0
2-Nitrophenol	<6.0	6.0	10
4-Nitrophenol	<5.0	5.0	10
N-Nitrosodimethylamine	<3.0	3.0	5.0
N-Nitrosodiphenylamine	<4.0	4.0	5.0
N-Nitrosodi-n-propylamine	<6.0	6.0	10
Pentachlorophenol	<4.0	4.0	20
Phenanthrene	<3.0	3.0	5.0
Phenol	<3.0	3.0	5.0
Pyrene	<3.0	3.0	5.0
1,2,4-Trichlorobenzene	<4.0	4.0	10
2,4,5-Trichlorophenol	<6.0	6.0	10
2,4,6-Trichlorophenol	<8.0	8.0	10

Surrogates		**%REC Limits**
2-Fluorobiphenyl	56.4%	43-116
2-Fluorophenol	23.6%	21-100
Nitrobenzene-d5	48.4%	35-134
Phenol-d6	15.9%	10-94
Terphenyl-dl4	62.7%	33-141

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LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/18/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625 (EPA 625) (continued)

2,4,6-Tribromophenol	44.5%	10-123	

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LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples
Method: General Chemistry Analyses

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
pH Measurement SM4500H+ B (SM4500H+ B)									
4I11007-01	CD-IDWP-091124	09/11/24	09/11/24	09/11/24	1	**7.4**	pH Units	0.01	0.01
TSS SM2540D (SM2540D)									
4I11007-01	CD-IDWP-091124	09/11/24	09/16/24	09/16/24	1	<5.0	mg/L	5	10

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LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 624.1 VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/12/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

624.1 VOCs by GC/MS (EPA 624.1)

Benzene	**0.55**	0.20	0.50
Bromodichloromethane	<0.20	0.20	0.50
Bromoform	<0.50	0.50	0.50
Bromomethane	<0.50	0.50	0.50
Carbon Tetrachloride	<0.30	0.30	0.50
Chlorobenzene	<0.30	0.30	0.50
Chloroethane	<0.50	0.50	0.50
2-Chloroethyl Vinyl Ether	<6.0	6.0	10
Chloroform	<0.30	0.30	0.50
Chloromethane	<0.40	0.40	0.50
Dibromochloromethane	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	0.30	0.50
1,4-Dichlorobenzene	<0.30	0.30	0.50
1,3-Dichlorobenzene	<0.10	0.10	0.50
1,1-Dichloroethane	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**2.0**	0.30	0.50
trans-1,2-Dichloroethylene	**5.2**	0.40	0.50
1,1-Dichloroethylene	<0.30	0.30	0.50
1,2-Dichloropropane	<0.50	0.50	0.50
cis-1,3-Dichloropropylene	<0.20	0.20	0.50
trans-1,3-Dichloropropylene	<0.20	0.20	0.50
Ethylbenzene	<0.20	0.20	0.50
Methylene Chloride	<5.0	5.0	5.0
1,1,2,2-Tetrachloroethane	<0.30	0.30	0.50
Tetrachloroethylene (PCE)	<0.50	0.50	0.50
Toluene	<0.30	0.30	0.50

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
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Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24
Method:	EPA 624.1 VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	09/11/24		
Date Prepared:	09/12/24		
Date Analyzed:	09/12/24		
AA ID No:	4I11007-01		
Client ID No:	CD-IDWP-091124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

624.1 VOCs by GC/MS (EPA 624.1) (continued)

1,1,2-Trichloroethane	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.43 J**	0.20	0.50
Vinyl chloride	<0.50	0.50	0.50

Surrogates		**%REC Limits**
4-Bromofluorobenzene	105%	70-140
Dibromofluoromethane	84.3%	70-140
Toluene-d8	96.9%	70-140

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Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4I1234 - EPA 3510C_MS										
Blank (B4I1234-BLK1)				Prepared: 09/12/24 Analyzed: 09/18/24						
3,3´-Dichlorobenzidine	<12	12	ug/L							
Acenaphthene	<3.0	3.0	ug/L							
Acenaphthylene	<3.0	3.0	ug/L							
Aniline	<10	10	ug/L							
Anthracene	<3.0	3.0	ug/L							
Azobenzene	<3.0	3.0	ug/L							
Benzidine	<17	17	ug/L							
Benzo(a)anthracene	<3.0	3.0	ug/L							
Benzo(a)pyrene	<3.0	3.0	ug/L							
Benzo(b)fluoranthene	<4.0	4.0	ug/L							
Benzo(g,h,i)perylene	<5.0	5.0	ug/L							
Benzoic acid	<5.0	5.0	ug/L							
Benzo(k)fluoranthene	<5.0	5.0	ug/L							
Benzyl alcohol	<7.0	7.0	ug/L							
4-Bromophenyl phenyl ether	<4.0	4.0	ug/L							
Butyl benzyl phthalate	<6.0	6.0	ug/L							
4-Chloro-3-methylphenol	<8.0	8.0	ug/L							
4-Chloroaniline	<7.0	7.0	ug/L							
Bis(2-chloroethoxy)methane	<5.0	5.0	ug/L							
Bis(2-chloroethyl)ether	<4.0	4.0	ug/L							
Bis(2-chloroisopropyl)ether	<5.0	5.0	ug/L							
2-Chloronaphthalene	<5.0	5.0	ug/L							
2-Chlorophenol	<5.0	5.0	ug/L							
4-Chlorophenyl phenyl ether	<3.0	3.0	ug/L							
Chrysene	<4.0	4.0	ug/L							
Dibenzo(a,h)anthracene	<5.0	5.0	ug/L							
Dibenzofuran	<3.0	3.0	ug/L							
Di-n-butyl phthalate	<5.0	5.0	ug/L							
1,2-Dichlorobenzene	<2.0	2.0	ug/L							
1,3-Dichlorobenzene	<3.0	3.0	ug/L							
1,4-Dichlorobenzene	<3.0	3.0	ug/L							
2,4-Dichlorophenol	<5.0	5.0	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4I1234 - EPA 3510C_MS										
Blank (B4I1234-BLK1) Continued				Prepared: 09/12/24 Analyzed: 09/18/24						
Diethyl phthalate	<3.0	3.0	ug/L							
2,4-Dimethylphenol	<6.0	6.0	ug/L							
Dimethyl phthalate	<3.0	3.0	ug/L							
4,6-Dinitro-2-methylphenol	<17	17	ug/L							
2,4-Dinitrophenol	<10	10	ug/L							
2,6-Dinitrotoluene	<3.0	3.0	ug/L							
2,4-Dinitrotoluene	<3.0	3.0	ug/L							
Di-n-octyl phthalate	<7.0	7.0	ug/L							
1,2-Diphenylhydrazine	<3.0	3.0	ug/L							
Bis(2-ethylhexyl)phthalate	<19	19	ug/L							
Fluoranthene	<4.0	4.0	ug/L							
Fluorene	<3.0	3.0	ug/L							
Hexachlorobenzene	<7.0	7.0	ug/L							
Hexachlorobutadiene	<8.0	8.0	ug/L							
Hexachlorocyclopentadiene	<6.0	6.0	ug/L							
Hexachloroethane	<3.0	3.0	ug/L							
Indeno (1,2,3-cd) pyrene	<5.0	5.0	ug/L							
Isophorone	<4.0	4.0	ug/L							
2-Methylnaphthalene	<5.0	5.0	ug/L							
2-Methylphenol	<4.0	4.0	ug/L							
3-Methylphenol	<4.0	4.0	ug/L							
4-Methylphenol	<4.0	4.0	ug/L							
Naphthalene	<4.0	4.0	ug/L							
4-Nitroaniline	<5.0	5.0	ug/L							
3-Nitroaniline	<10	10	ug/L							
2-Nitroaniline	<4.0	4.0	ug/L							
Nitrobenzene	<5.0	5.0	ug/L							
2-Nitrophenol	<6.0	6.0	ug/L							
4-Nitrophenol	<5.0	5.0	ug/L							
N-Nitrosodimethylamine	<3.0	3.0	ug/L							
N-Nitrosodiphenylamine	<4.0	4.0	ug/L							
N-Nitrosodi-n-propylamine	<6.0	6.0	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4I1234 - EPA 3510C_MS										
Blank (B4I1234-BLK1) Continued				Prepared: 09/12/24 Analyzed: 09/18/24						
Pentachlorophenol	<4.0	4.0	ug/L							
Phenanthrene	<3.0	3.0	ug/L							
Phenol	<3.0	3.0	ug/L							
Pyrene	<3.0	3.0	ug/L							
1,2,4-Trichlorobenzene	<4.0	4.0	ug/L							
2,4,5-Trichlorophenol	<6.0	6.0	ug/L							
2,4,6-Trichlorophenol	<8.0	8.0	ug/L							
Surrogate: 2-Fluorobiphenyl	*12.9*		*ug/L*	*25.0*		*51.7*	*43-116*			
Surrogate: 2-Fluorophenol	*8.96*		*ug/L*	*50.0*		*17.9*	*21-100*			*S-GC*
Surrogate: Nitrobenzene-d5	*12.5*		*ug/L*	*25.0*		*49.9*	*35-134*			
Surrogate: Phenol-d6	*7.14*		*ug/L*	*50.0*		*14.3*	*10-94*			
Surrogate: Terphenyl-dl4	*16.3*		*ug/L*	*25.0*		*65.1*	*33-141*			
Surrogate: 2,4,6-Tribromophenol	*22.0*		*ug/L*	*50.0*		*44.0*	*10-123*			
LCS (B4I1234-BS1)				Prepared: 09/12/24 Analyzed: 09/18/24						
Acenaphthene	**19.2**	3.0	ug/L	30.0		64.1	31-104			
Anthracene	**23.9**	3.0	ug/L	30.0		79.6	33-115			
Benzo(a)pyrene	**22.7**	3.0	ug/L	30.0		75.7	26-111			
Benzo(b)fluoranthene	**24.3**	4.0	ug/L	30.0		80.9	24-118			
Butyl benzyl phthalate	**23.6**	6.0	ug/L	30.0		78.8	12-126			
4-Chloro-3-methylphenol	**19.6**	8.0	ug/L	30.0		65.3	23-104			
Bis(2-chloroethyl)ether	**16.4**	4.0	ug/L	30.0		54.5	30-121			
2-Chloronaphthalene	**17.3**	5.0	ug/L	30.0		57.7	35-102			
4-Chlorophenyl phenyl ether	**19.5**	3.0	ug/L	30.0		64.9	41-128			
1,4-Dichlorobenzene	**15.2**	3.0	ug/L	30.0		50.6	25-100			
2,4-Dichlorophenol	**15.8**	5.0	ug/L	30.0		52.8	14-100			
Di-n-octyl phthalate	**26.2**	7.0	ug/L	30.0		87.4	13-120			
Fluoranthene	**23.6**	4.0	ug/L	30.0		78.7	26-111			
Fluorene	**18.6**	3.0	ug/L	30.0		61.9	37-94			
Hexachlorobenzene	**20.8**	7.0	ug/L	30.0		69.5	2-152			
Hexachlorobutadiene	**12.8**	8.0	ug/L	30.0		42.5	24-86			
Hexachloroethane	**14.4**	3.0	ug/L	30.0		48.2	17-115			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4I1234 - EPA 3510C_MS										
LCS (B4I1234-BS1) Continued				Prepared: 09/12/24 Analyzed: 09/18/24						
Isophorone	**20.0**	4.0	ug/L	30.0		66.7	35-101			
Naphthalene	**15.8**	4.0	ug/L	30.0		52.5	36-94			
Nitrobenzene	**16.1**	5.0	ug/L	30.0		53.7	34-112			
2-Nitrophenol	**13.1**	6.0	ug/L	30.0		43.7	8.2-99			
N-Nitrosodi-n-propylamine	**17.5**	6.0	ug/L	30.0		58.4	20-138			
Pentachlorophenol	**17.9**	4.0	ug/L	30.0		59.7	1-90.5			J
Phenol	**6.30**	3.0	ug/L	30.0		21.0	12-52			
Pyrene	**21.6**	3.0	ug/L	30.0		72.1	29-120			
1,2,4-Trichlorobenzene	**15.7**	4.0	ug/L	30.0		52.2	29-89			
2,4,6-Trichlorophenol	**14.5**	8.0	ug/L	30.0		48.4	7.9-100			
Surrogate: 2-Fluorobiphenyl	*14.5*		*ug/L*	*25.0*		*58.0*	*43-116*			
Surrogate: 2-Fluorophenol	*13.9*		*ug/L*	*50.0*		*27.7*	*21-100*			
Surrogate: Nitrobenzene-d5	*12.8*		*ug/L*	*25.0*		*51.1*	*35-134*			
Surrogate: Phenol-d6	*9.85*		*ug/L*	*50.0*		*19.7*	*10-94*			
Surrogate: Terphenyl-dl4	*17.8*		*ug/L*	*25.0*		*71.3*	*33-141*			
Surrogate: 2,4,6-Tribromophenol	*26.6*		*ug/L*	*50.0*		*53.3*	*10-123*			
General Chemistry Analyses - Quality Control										
Batch B4I1626 - NO PREP										
Blank (B4I1626-BLK1)				Prepared & Analyzed: 09/16/24						
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B4I1626-BS1)				Prepared & Analyzed: 09/16/24						
Total Suspended Solids	**1150**	5.0	mg/L	1000		115	80-120			
LCS Dup (B4I1626-BSD1)				Prepared & Analyzed: 09/16/24						
Total Suspended Solids	**1180**	5.0	mg/L	1000		118	80-120	1.98	20	
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
Blank (B4I1228-BLK1)				Prepared & Analyzed: 09/12/24						
Benzene	<0.20	0.20	ug/L							
Bromodichloromethane	<0.20	0.20	ug/L							
Bromoform	<0.50	0.50	ug/L							



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
Blank (B4I1228-BLK1) Continued				Prepared & Analyzed: 09/12/24						
Bromomethane	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.30	0.30	ug/L							
Chloroethane	<0.50	0.50	ug/L							
2-Chloroethyl Vinyl Ether	<6.0	6.0	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,3-Dichlorobenzene	<0.10	0.10	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.30	0.30	ug/L							
trans-1,2-Dichloroethylene	<0.40	0.40	ug/L							
1,1-Dichloroethylene	<0.30	0.30	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.20	0.20	ug/L							
trans-1,3-Dichloropropylene	<0.20	0.20	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<0.30	0.30	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.30	0.30	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.20	0.20	ug/L							
Vinyl chloride	<0.50	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*48.7*		*ug/L*	*50.0*		*97.4*	*70-140*			
Surrogate: Dibromofluoromethane	*38.6*		*ug/L*	*50.0*		*77.2*	*70-140*			
Surrogate: Toluene-d8	*51.9*		*ug/L*	*50.0*		*104*	*70-140*			
LCS (B4I1228-BS1)				Prepared & Analyzed: 09/12/24						

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
LCS (B4I1228-BS1) Continued				Prepared & Analyzed: 09/12/24						
Benzene	**19.2**	0.20	ug/L	20.0		95.9	75-125			
Bromodichloromethane	**19.1**	0.20	ug/L	20.0		95.4	75-125			
Bromoform	**16.1**	0.50	ug/L	20.0		80.4	75-125			
Bromomethane	**22.7**	0.50	ug/L	20.0		114	75-125			
Carbon Tetrachloride	**20.5**	0.30	ug/L	20.0		103	75-125			
Chlorobenzene	**17.8**	0.30	ug/L	20.0		89.1	75-125			
Chloroethane	**21.1**	0.50	ug/L	20.0		106	75-125			
2-Chloroethyl Vinyl Ether	**18.9**	6.0	ug/L	20.0		94.6	70-130			
Chloroform	**20.4**	0.30	ug/L	20.0		102	75-125			
Chloromethane	**25.9**	0.40	ug/L	20.0		129	65-125			QL-02
Dibromochloromethane	**16.3**	0.30	ug/L	20.0		81.6	75-125			
1,2-Dichlorobenzene	**17.5**	0.30	ug/L	20.0		87.7	70-130			
1,4-Dichlorobenzene	**17.5**	0.30	ug/L	20.0		87.4	75-125			
1,3-Dichlorobenzene	**17.7**	0.10	ug/L	20.0		88.6	70-130			
1,1-Dichloroethane	**20.4**	0.20	ug/L	20.0		102	70-125			
1,2-Dichloroethane (EDC)	**20.5**	0.30	ug/L	20.0		102	75-125			
trans-1,2-Dichloroethylene	**20.5**	0.40	ug/L	20.0		103	75-125			
1,1-Dichloroethylene	**19.4**	0.30	ug/L	20.0		97.2	70-130			
1,2-Dichloropropane	**18.8**	0.50	ug/L	20.0		93.8	75-130			
cis-1,3-Dichloropropylene	**18.8**	0.20	ug/L	20.0		93.8	75-125			
trans-1,3-Dichloropropylene	**17.8**	0.20	ug/L	20.0		89.2	70-130			
Ethylbenzene	**18.2**	0.20	ug/L	20.0		90.8	75-125			
Methylene Chloride	**18.9**	5.0	ug/L	20.0		94.4	75-130			
1,1,2,2-Tetrachloroethane	**16.1**	0.30	ug/L	20.0		80.3	70-135			
Tetrachloroethylene (PCE)	**17.4**	0.50	ug/L	20.0		87.0	75-125			
Toluene	**17.8**	0.30	ug/L	20.0		88.8	75-125			
1,1,2-Trichloroethane	**17.2**	0.30	ug/L	20.0		85.8	75-125			
1,1,1-Trichloroethane	**19.9**	0.30	ug/L	20.0		99.4	75-125			
Trichloroethylene (TCE)	**18.9**	0.20	ug/L	20.0		94.6	75-125			
Vinyl chloride	**16.9**	0.50	ug/L	20.0		84.7	75-125			
Surrogate: 4-Bromofluorobenzene	*47.9*		*ug/L*	*50.0*		*95.8*	*70-140*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
LCS (B4I1228-BS1) Continued				Prepared & Analyzed: 09/12/24						
Surrogate: Dibromofluoromethane	*42.3*		*ug/L*	*50.0*		*84.7*	*70-140*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96.3*	*70-140*			
LCS Dup (B4I1228-BSD1)				Prepared & Analyzed: 09/12/24						
Benzene	**19.5**	0.20	ug/L	20.0		97.7	75-125	1.86	30	
Bromodichloromethane	**19.8**	0.20	ug/L	20.0		98.9	75-125	3.60	30	
Bromoform	**17.0**	0.50	ug/L	20.0		84.9	75-125	5.44	30	
Bromomethane	**56.5**	0.50	ug/L	20.0		282	75-125	85.3	30	QL-03
Carbon Tetrachloride	**22.1**	0.30	ug/L	20.0		110	75-125	7.23	30	
Chlorobenzene	**18.8**	0.30	ug/L	20.0		94.2	75-125	5.56	30	
Chloroethane	**21.5**	0.50	ug/L	20.0		108	75-125	1.92	30	
2-Chloroethyl Vinyl Ether	**24.1**	6.0	ug/L	20.0		121	70-130	24.3	30	
Chloroform	**21.1**	0.30	ug/L	20.0		105	75-125	3.04	30	
Chloromethane	**24.3**	0.40	ug/L	20.0		122	65-125	6.17	30	
Dibromochloromethane	**17.3**	0.30	ug/L	20.0		86.5	75-125	5.89	30	
1,2-Dichlorobenzene	**18.8**	0.30	ug/L	20.0		93.9	70-130	6.83	30	
1,4-Dichlorobenzene	**18.1**	0.30	ug/L	20.0		90.7	75-125	3.65	30	
1,3-Dichlorobenzene	**18.7**	0.10	ug/L	20.0		93.4	70-130	5.38	30	
1,1-Dichloroethane	**20.5**	0.20	ug/L	20.0		102	70-125	0.342	30	
1,2-Dichloroethane (EDC)	**20.3**	0.30	ug/L	20.0		102	75-125	0.833	30	
trans-1,2-Dichloroethylene	**20.9**	0.40	ug/L	20.0		105	75-125	1.98	30	
1,1-Dichloroethylene	**20.1**	0.30	ug/L	20.0		101	70-130	3.49	30	
1,2-Dichloropropane	**19.6**	0.50	ug/L	20.0		98.1	75-130	4.53	30	
cis-1,3-Dichloropropylene	**18.2**	0.20	ug/L	20.0		91.0	75-125	3.14	30	
trans-1,3-Dichloropropylene	**17.6**	0.20	ug/L	20.0		88.0	70-130	1.30	30	
Ethylbenzene	**19.4**	0.20	ug/L	20.0		97.0	75-125	6.71	30	
Methylene Chloride	**18.7**	5.0	ug/L	20.0		93.6	75-130	0.798	30	
1,1,2,2-Tetrachloroethane	**17.9**	0.30	ug/L	20.0		89.4	70-135	10.8	30	
Tetrachloroethylene (PCE)	**18.5**	0.50	ug/L	20.0		92.7	75-125	6.34	30	
Toluene	**19.0**	0.30	ug/L	20.0		94.9	75-125	6.64	30	
1,1,2-Trichloroethane	**17.7**	0.30	ug/L	20.0		88.6	75-125	3.33	30	
1,1,1-Trichloroethane	**21.0**	0.30	ug/L	20.0		105	75-125	5.57	30	
Trichloroethylene (TCE)	**20.0**	0.20	ug/L	20.0		99.8	75-125	5.45	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
LCS Dup (B4I1228-BSD1) Continued				Prepared & Analyzed: 09/12/24						
Vinyl chloride	**17.9**	0.50	ug/L	20.0		89.4	75-125	5.34	30	
Surrogate: 4-Bromofluorobenzene	*49.1*		*ug/L*	*50.0*		*98.1*	*70-140*			
Surrogate: Dibromofluoromethane	*42.5*		*ug/L*	*50.0*		*85.0*	*70-140*			
Surrogate: Toluene-d8	*48.3*		*ug/L*	*50.0*		*96.6*	*70-140*			
Matrix Spike (B4I1228-MS1)		**Source: 4I11007-01**		Prepared & Analyzed: 09/12/24						
Benzene	**21.0**	0.20	ug/L	20.0	0.550	102	70-130			
Bromodichloromethane	**19.6**	0.20	ug/L	20.0	<0.50	97.8	70-130			
Bromoform	**15.4**	0.50	ug/L	20.0	<0.50	77.2	70-130			
Bromomethane	**25.0**	0.50	ug/L	20.0	<0.50	125	70-130			
Carbon Tetrachloride	**24.1**	0.30	ug/L	20.0	<0.50	121	70-130			
Chlorobenzene	**20.4**	0.30	ug/L	20.0	<0.50	102	70-130			
Chloroethane	**23.4**	0.50	ug/L	20.0	<0.50	117	70-130			
2-Chloroethyl Vinyl Ether	**17.9**	6.0	ug/L	20.0	<10	89.6	70-130			
Chloroform	**21.6**	0.30	ug/L	20.0	<0.50	108	70-130			
Chloromethane	**23.7**	0.40	ug/L	20.0	<0.50	119	65-130			
Dibromochloromethane	**16.8**	0.30	ug/L	20.0	<0.50	84.2	70-130			
1,2-Dichlorobenzene	**18.7**	0.30	ug/L	20.0	<0.50	93.5	70-130			
1,4-Dichlorobenzene	**19.3**	0.30	ug/L	20.0	<0.50	96.7	70-130			
1,3-Dichlorobenzene	**20.2**	0.10	ug/L	20.0	<0.50	101	70-130			
1,1-Dichloroethane	**22.5**	0.20	ug/L	20.0	<0.50	112	70-130			
1,2-Dichloroethane (EDC)	**22.0**	0.30	ug/L	20.0	1.98	100	70-130			
trans-1,2-Dichloroethylene	**29.5**	0.40	ug/L	20.0	5.21	121	70-130			
1,1-Dichloroethylene	**23.6**	0.30	ug/L	20.0	<0.50	118	70-130			
1,2-Dichloropropane	**19.8**	0.50	ug/L	20.0	<0.50	98.8	70-130			
cis-1,3-Dichloropropylene	**17.7**	0.20	ug/L	20.0	<0.50	88.4	70-130			
trans-1,3-Dichloropropylene	**16.8**	0.20	ug/L	20.0	<0.50	84.2	70-130			
Ethylbenzene	**21.2**	0.20	ug/L	20.0	<0.50	106	70-130			
Methylene Chloride	**17.5**	5.0	ug/L	20.0	<5.0	87.6	70-130			
1,1,2,2-Tetrachloroethane	**15.6**	0.30	ug/L	20.0	<0.50	77.8	70-130			
Tetrachloroethylene (PCE)	**20.9**	0.50	ug/L	20.0	<0.50	105	70-130			
Toluene	**20.6**	0.30	ug/L	20.0	<0.50	103	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
Matrix Spike (B4I1228-MS1) Continued	**Source: 4I11007-01**			Prepared & Analyzed: 09/12/24						
1,1,2-Trichloroethane	**16.3**	0.30	ug/L	20.0	<0.50	81.6	70-130			
1,1,1-Trichloroethane	**23.3**	0.30	ug/L	20.0	<0.50	117	70-130			
Trichloroethylene (TCE)	**22.1**	0.20	ug/L	20.0	0.430	108	70-130			
Vinyl chloride	**20.3**	0.50	ug/L	20.0	<0.50	101	70-130			
Surrogate: 4-Bromofluorobenzene	*48.8*		*ug/L*	*50.0*		*97.5*	*70-140*			
Surrogate: Dibromofluoromethane	*40.6*		*ug/L*	*50.0*		*81.2*	*70-140*			
Surrogate: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.7*	*70-140*			
Matrix Spike Dup (B4I1228-MSD1)	**Source: 4I11007-01**			Prepared & Analyzed: 09/12/24						
Benzene	**19.6**	0.20	ug/L	20.0	0.550	95.0	70-130	7.24	30	
Bromodichloromethane	**20.5**	0.20	ug/L	20.0	<0.50	102	70-130	4.70	30	
Bromoform	**17.0**	0.50	ug/L	20.0	<0.50	85.1	70-130	9.67	30	
Bromomethane	**28.0**	0.50	ug/L	20.0	<0.50	140	70-130	11.2	30	QM-07
Carbon Tetrachloride	**21.5**	0.30	ug/L	20.0	<0.50	108	70-130	11.3	30	
Chlorobenzene	**18.2**	0.30	ug/L	20.0	<0.50	91.2	70-130	10.9	30	
Chloroethane	**24.3**	0.50	ug/L	20.0	<0.50	121	70-130	3.86	30	
2-Chloroethyl Vinyl Ether	**26.6**	6.0	ug/L	20.0	<10	133	70-130	39.1	30	
Chloroform	**21.1**	0.30	ug/L	20.0	<0.50	106	70-130	2.15	30	
Chloromethane	**26.9**	0.40	ug/L	20.0	<0.50	134	65-130	12.4	30	QM-07
Dibromochloromethane	**17.8**	0.30	ug/L	20.0	<0.50	89.0	70-130	5.48	30	
1,2-Dichlorobenzene	**18.9**	0.30	ug/L	20.0	<0.50	94.3	70-130	0.852	30	
1,4-Dichlorobenzene	**18.5**	0.30	ug/L	20.0	<0.50	92.4	70-130	4.60	30	
1,3-Dichlorobenzene	**18.8**	0.10	ug/L	20.0	<0.50	94.1	70-130	7.27	30	
1,1-Dichloroethane	**21.2**	0.20	ug/L	20.0	<0.50	106	70-130	5.86	30	
1,2-Dichloroethane (EDC)	**24.4**	0.30	ug/L	20.0	1.98	112	70-130	10.1	30	
trans-1,2-Dichloroethylene	**24.3**	0.40	ug/L	20.0	5.21	95.6	70-130	19.1	30	
1,1-Dichloroethylene	**19.5**	0.30	ug/L	20.0	<0.50	97.3	70-130	19.1	30	
1,2-Dichloropropane	**20.5**	0.50	ug/L	20.0	<0.50	102	70-130	3.48	30	
cis-1,3-Dichloropropylene	**19.2**	0.20	ug/L	20.0	<0.50	95.8	70-130	7.98	30	
trans-1,3-Dichloropropylene	**17.9**	0.20	ug/L	20.0	<0.50	89.4	70-130	5.93	30	
Ethylbenzene	**18.4**	0.20	ug/L	20.0	<0.50	92.1	70-130	14.0	30	
Methylene Chloride	**19.0**	5.0	ug/L	20.0	<5.0	95.0	70-130	8.16	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874666
Date Received: 09/11/24
Date Reported: 09/20/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4I1228 - EPA 5030B										
Matrix Spike Dup (B4I1228-MSD1) Continued		**Source: 4I11007-01**		Prepared & Analyzed: 09/12/24						
1,1,2,2-Tetrachloroethane	**17.6**	0.30	ug/L	20.0	<0.50	87.8	70-130	12.1	30	
Tetrachloroethylene (PCE)	**18.2**	0.50	ug/L	20.0	<0.50	91.0	70-130	13.9	30	
Toluene	**18.2**	0.30	ug/L	20.0	<0.50	91.2	70-130	12.2	30	
1,1,2-Trichloroethane	**17.4**	0.30	ug/L	20.0	<0.50	87.0	70-130	6.41	30	
1,1,1-Trichloroethane	**20.6**	0.30	ug/L	20.0	<0.50	103	70-130	12.5	30	
Trichloroethylene (TCE)	**20.7**	0.20	ug/L	20.0	0.430	101	70-130	6.46	30	
Vinyl chloride	**21.0**	0.50	ug/L	20.0	<0.50	105	70-130	3.54	30	
Surrogate: 4-Bromofluorobenzene	*48.8*		*ug/L*	*50.0*		*97.5*	*70-140*			
Surrogate: Dibromofluoromethane	*43.4*		*ug/L*	*50.0*		*86.9*	*70-140*			
Surrogate: Toluene-d8	*46.4*		*ug/L*	*50.0*		*92.9*	*70-140*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874666
Project No:	130072-024	**Date Received:**	09/11/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	09/20/24

Special Notes

	J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] =	**QL-02**	:	The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.
[2] =	**QL-03**	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] =	**QM-07**	:	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS or LCSD recovery.
[4] =	**S-GC**	:	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

Viorel Vasile
Operations Manager

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

September 18, 2024

Viorel Vasile
American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report No.: 2409082

Project Name: # MB874666 / 4I11007 P.O. # SUB04830-MB874666

Dear Viorel Vasile,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 12, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

File #:75563
Report Date: 09/18/24
Submitted: 09/12/24

PLS Report No.: 2409082

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Attn: Viorel Vasile Phone: (818) 998-5547 FAX:(818) 998-7258

Project: # MB874666 / 4I11007 P.O. # SUB04830-MB874666

Sample ID: 4I11007-01 Water (2409082-01) Sampled: 09/11/24 11:20 Received: 09/12/24

Analyte	Results	Flag	D.F.	Units	MDL	PQL		Prep/Test Method	Prepared	Analyzed	By	Batch
Chemical Oxygen Demand	**230**		10	mg/L	120	120	-	SM 5220C	09/16/24	09/16/24	ss	BI41701
Analyte	Results	Flag	D.F.	Units	MDL	PQL		Prep/Test Method	Prepared	Analyzed	By	Batch
Sulfide, Dissolved	**0.025**		1	mg/L	0.015	0.020	-	SM 4500S-D	09/13/24	09/13/24	ss	BI41619

Quality Control Data

Analyte		Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI41701 - -											
Blank		**Prepared & Analyzed: 09/16/24**									
Chemical Oxygen Demand		ND	12.0	mg/L							
LCS		**Prepared & Analyzed: 09/16/24**									
Chemical Oxygen Demand		104	12.0	mg/L	100.0		104	90-110			
Duplicate	**Source: 2409081-01**	**Prepared & Analyzed: 09/16/24**									
Chemical Oxygen Demand		461	48.0	mg/L		461			0.00	5	
Duplicate	**Source: 2409082-01**	**Prepared & Analyzed: 09/16/24**									
Chemical Oxygen Demand		230	48.0	mg/L		230			0.00	5	
Batch BI41619 - -											
Blank		**Prepared & Analyzed: 09/13/24**									
Sulfide, Dissolved		ND	0.020	mg/L							
LCS		**Prepared & Analyzed: 09/13/24**									
Sulfide, Dissolved		0.100	0.020	mg/L	0.1000		100	85-115			
Matrix Spike	**Source: 2409082-01**	**Prepared & Analyzed: 09/13/24**									
Sulfide, Dissolved		0.105	0.020	mg/L	0.1000	0.025	80.5	75-125			
Matrix Spike Dup	**Source: 2409082-01**	**Prepared & Analyzed: 09/13/24**									
Sulfide, Dissolved		0.107	0.020	mg/L	0.1000	0.025	82.3	75-125	2.21	20	

Notes and Definitions

NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
NR	Not Reported
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Rick Owen Parker

Authorized Signature(s)

#2409082

POSITIVE LABS

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.

Client: American Analytics, Inc	**MB874666 / 4I11007**	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone: 818-998-5547 x320	**City:**	**P.O.No: SUB04830-MB874666**
Fax:	**State & Zip:**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	COD	Dissolved Sulfid	Special Instructions
						Please enter the TAT Turnaround Codes ** below		
4I11007-01		9/11/2024	11:20	W	3	X	X	
								Please report J-flags
								standard TAT

For Laboratory Use	Relinquished by	Date	Time	Received by
OBSERV. TEMP: 3.6 °C CORREC. TEMP: 4.6 °C THERMO ID: 66 BY: JC		9/12/24	10:38	Ava C.
	Relinquished by	Date	Time	Received by
A.A. Project No.:	Relinquished by	Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project.
Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.: 20120

Client: Haley & Aldrich Inc	**Project Name / No.: Cooper Drum**	**Sampler's Name:** Riley Arthur
Project Manager: C. Tsiatsios	**Site Address: 9313 Rayo Avenue**	**Sampler's Signature:**
Phone: 714-371-1820	**City: South Gate**	**P.O.No: 130072**
Fax: -	**State & Zip: CA**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8260 B	827 1,4 Dioxane SIM	524 SIM	VOCs 624	SVOCs 625	COD	Dissolved Solids SM2540D	TSS SM2540D	pH (4 wd)*		Special Instructions
						Please enter the TAT Turnaround Codes ** below										
~~HT-INF-~~					7											
~~Total-EFF-~~					7											
~~CD-IDWP-091124~~		~~9/11/24~~		W	~~8~~				X	X	X	X	X	X		~~* Field recorded~~
CD-IDWP-091124	411107-01	9/11/24	1120	W	8				X	X	X	X	X	X		* Field Measured

SAMPLE INTEGRITY INTACT (Y) N TEMP 1.2°C

24 SEP 11 2:37PM

For Laboratory Use	Relinquished by	Date	Time	Received by
REVIEWED Date 9/12/24 Time 0500 TAT N Days Sign:		9/11/24	1130	
		9/11/24	1437	
A.A. Project No.: MB874666/411107		Date	Time	

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 10, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - WDR Samples / 130072-024

MB874671 / 4K21013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/21/24 14:42 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
624.1 VOCs by GC/MS					
CD-IDWP-112124	4K21013-01	Water	10	11/21/24 12:05	11/21/24 14:42
625.1 SVOCs by GC/MS					
CD-IDWP-112124	4K21013-01	Water	10	11/21/24 12:05	11/21/24 14:42
pH Measurement SM4500H+ B					
CD-IDWP-112124	4K21013-01	Water	10	11/21/24 12:05	11/21/24 14:42
TSS SM2540D					
CD-IDWP-112124	4K21013-01	Water	10	11/21/24 12:05	11/21/24 14:42

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/26/24		
Date Analyzed:	12/09/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625.1 SVOCs by GC/MS (EPA 625.1)

3,3´-Dichlorobenzidine	<12	12	20
Acenaphthene	<3.0	3.0	5.0
Acenaphthylene	<3.0	3.0	5.0
Aniline	<10	10	10
Anthracene	<3.0	3.0	5.0
Azobenzene	<3.0	3.0	5.0
Benzidine	<17	17	20
Benzo(a)anthracene	<3.0	3.0	20
Benzo(a)pyrene	<3.0	3.0	5.0
Benzo(b)fluoranthene	<4.0	4.0	5.0
Benzo(g,h,i)perylene	<5.0	5.0	5.0
Benzoic acid	<5.0	5.0	50
Benzo(k)fluoranthene	<5.0	5.0	5.0
Benzyl alcohol	<7.0	7.0	10
4-Bromophenyl phenyl ether	<4.0	4.0	5.0
Butyl benzyl phthalate	<6.0	6.0	10
4-Chloro-3-methylphenol	<8.0	8.0	10
4-Chloroaniline	<7.0	7.0	20
Bis(2-chloroethoxy)methane	<5.0	5.0	5.0
Bis(2-chloroethyl)ether	<4.0	4.0	5.0
Bis(2-chloroisopropyl)ether	<5.0	5.0	5.0
2-Chloronaphthalene	<5.0	5.0	5.0
2-Chlorophenol	<5.0	5.0	5.0
4-Chlorophenyl phenyl ether	<3.0	3.0	5.0
Chrysene	<4.0	4.0	5.0
Dibenzo(a,h)anthracene	<5.0	5.0	5.0

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/26/24		
Date Analyzed:	12/09/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625.1 SVOCs by GC/MS (EPA 625.1) (continued)

Dibenzofuran	<3.0	3.0	5.0
Di-n-butyl phthalate	<5.0	5.0	100
1,2-Dichlorobenzene	<2.0	2.0	5.0
1,3-Dichlorobenzene	<3.0	3.0	5.0
1,4-Dichlorobenzene	<3.0	3.0	5.0
2,4-Dichlorophenol	<5.0	5.0	5.0
Diethyl phthalate	<3.0	3.0	40
2,4-Dimethylphenol	<6.0	6.0	20
Dimethyl phthalate	<3.0	3.0	10
4,6-Dinitro-2-methylphenol	<17	17	20
2,4-Dinitrophenol	<10	10	20
2,6-Dinitrotoluene	<3.0	3.0	5.0
2,4-Dinitrotoluene	<3.0	3.0	5.0
Di-n-octyl phthalate	<7.0	7.0	10
1,2-Diphenylhydrazine	<3.0	3.0	5.0
Bis(2-ethylhexyl)phthalate	<19	19	50
Fluoranthene	<4.0	4.0	5.0
Fluorene	<3.0	3.0	5.0
Hexachlorobenzene	<7.0	7.0	10
Hexachlorobutadiene	<8.0	8.0	10
Hexachlorocyclopentadiene	<6.0	6.0	10
Hexachloroethane	<3.0	3.0	5.0
Indeno (1,2,3-cd) pyrene	<5.0	5.0	20
Isophorone	<4.0	4.0	5.0
2-Methylnaphthalene	<5.0	5.0	5.0
2-Methylphenol	<4.0	4.0	10

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/26/24		
Date Analyzed:	12/09/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625.1 SVOCs by GC/MS (EPA 625.1) (continued)

3-Methylphenol	<4.0	4.0	10
4-Methylphenol	<4.0	4.0	10
Naphthalene	<4.0	4.0	5.0
4-Nitroaniline	<5.0	5.0	20
3-Nitroaniline	<10	10	20
2-Nitroaniline	<4.0	4.0	20
Nitrobenzene	<5.0	5.0	5.0
2-Nitrophenol	<6.0	6.0	10
4-Nitrophenol	<5.0	5.0	10
N-Nitrosodimethylamine	<3.0	3.0	5.0
N-Nitrosodiphenylamine	<4.0	4.0	5.0
N-Nitrosodi-n-propylamine	<6.0	6.0	10
Pentachlorophenol	<17	17	20
Phenanthrene	<3.0	3.0	5.0
Phenol	<3.0	3.0	5.0
Pyrene	<3.0	3.0	5.0
1,2,4-Trichlorobenzene	<4.0	4.0	10
2,4,5-Trichlorophenol	<6.0	6.0	10
2,4,6-Trichlorophenol	<8.0	8.0	10

Surrogates		**%REC Limits**
2-Fluorobiphenyl	41.2% [5]	43-116
2-Fluorophenol	17.7% [5]	21-100
Nitrobenzene-d5	52.2%	35-134
Phenol-d6	11.6%	10-94
Terphenyl-dl4	68.4%	33-141

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 625.1 Semivolatile Organics by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/26/24		
Date Analyzed:	12/09/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

625.1 SVOCs by GC/MS (EPA 625.1) (continued)

2,4,6-Tribromophenol	29.7%	10-123

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples
Method: General Chemistry Analyses

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
pH Measurement SM4500H+ B (SM4500H+ B)									
4K21013-01	CD-IDWP-112124	11/21/24	11/21/24	11/21/24	1	**7.8**	pH Units	0.01	0.01
TSS SM2540D (SM2540D)									
4K21013-01	CD-IDWP-112124	11/21/24	11/22/24	11/22/24	1	**39**	mg/L	5	10



Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 624.1 VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/25/24		
Date Analyzed:	11/25/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

624.1 VOCs by GC/MS (EPA 624.1)

Benzene	<0.20	0.20	0.50
Bromodichloromethane	<0.20	0.20	0.50
Bromoform	<0.50	0.50	0.50
Bromomethane	<0.50	0.50	0.50
Carbon Tetrachloride	<0.30	0.30	0.50
Chlorobenzene	<0.30	0.30	0.50
Chloroethane	<0.50	0.50	0.50
2-Chloroethyl Vinyl Ether	<6.0	6.0	10
Chloroform	<0.30	0.30	0.50
Chloromethane	<0.40	0.40	0.50
Dibromochloromethane	<0.30	0.30	0.50
1,2-Dichlorobenzene	<0.30	0.30	0.50
1,4-Dichlorobenzene	<0.30	0.30	0.50
1,3-Dichlorobenzene	<0.10	0.10	0.50
1,1-Dichloroethane	<0.20	0.20	0.50
1,2-Dichloroethane (EDC)	**0.98**	0.30	0.50
trans-1,2-Dichloroethylene	**3.0**	0.40	0.50
1,1-Dichloroethylene	<0.30	0.30	0.50
1,2-Dichloropropane	<0.50	0.50	0.50
cis-1,3-Dichloropropylene	<0.20	0.20	0.50
trans-1,3-Dichloropropylene	<0.20	0.20	0.50
Ethylbenzene	<0.20	0.20	0.50
Methylene Chloride	<5.0	5.0	5.0
1,1,2,2-Tetrachloroethane	<0.30	0.30	0.50
Tetrachloroethylene (PCE)	<0.50	0.50	0.50
Toluene	<0.30	0.30	0.50

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24
Method:	EPA 624.1 VOCs by GC/MS	**Units:**	ug/L

Date Sampled:	11/21/24		
Date Prepared:	11/25/24		
Date Analyzed:	11/25/24		
AA ID No:	4K21013-01		
Client ID No:	CD-IDWP-112124		
Matrix:	Water		
Dilution Factor:	1	MDL	MRL

624.1 VOCs by GC/MS (EPA 624.1) (continued)

1,1,2-Trichloroethane	<0.30	0.30	0.50
1,1,1-Trichloroethane	<0.30	0.30	0.50
Trichloroethylene (TCE)	**0.21 J**	0.20	0.50
Vinyl chloride	<0.50	0.50	0.50

Surrogates		**%REC Limits**
4-Bromofluorobenzene	90.9%	70-140
Dibromofluoromethane	85.3%	70-140
Toluene-d8	102%	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4K2653 - EPA 3510C_MS										
Blank (B4K2653-BLK1)				Prepared: 11/26/24 Analyzed: 12/03/24						
3,3´-Dichlorobenzidine	<12	12	ug/L							
Acenaphthene	<3.0	3.0	ug/L							
Acenaphthylene	<3.0	3.0	ug/L							
Aniline	<10	10	ug/L							
Anthracene	<3.0	3.0	ug/L							
Azobenzene	<3.0	3.0	ug/L							
Benzidine	<17	17	ug/L							
Benzo(a)anthracene	<3.0	3.0	ug/L							
Benzo(a)pyrene	<3.0	3.0	ug/L							
Benzo(b)fluoranthene	<4.0	4.0	ug/L							
Benzo(g,h,i)perylene	<5.0	5.0	ug/L							
Benzoic acid	<5.0	5.0	ug/L							
Benzo(k)fluoranthene	<5.0	5.0	ug/L							
Benzyl alcohol	<7.0	7.0	ug/L							
4-Bromophenyl phenyl ether	<4.0	4.0	ug/L							
Butyl benzyl phthalate	<6.0	6.0	ug/L							
4-Chloro-3-methylphenol	<8.0	8.0	ug/L							
4-Chloroaniline	<7.0	7.0	ug/L							
Bis(2-chloroethoxy)methane	<5.0	5.0	ug/L							
Bis(2-chloroethyl)ether	<4.0	4.0	ug/L							
Bis(2-chloroisopropyl)ether	<5.0	5.0	ug/L							
2-Chloronaphthalene	<5.0	5.0	ug/L							
2-Chlorophenol	<5.0	5.0	ug/L							
4-Chlorophenyl phenyl ether	<3.0	3.0	ug/L							
Chrysene	<4.0	4.0	ug/L							
Dibenzo(a,h)anthracene	<5.0	5.0	ug/L							
Dibenzofuran	<3.0	3.0	ug/L							
Di-n-butyl phthalate	<5.0	5.0	ug/L							
1,2-Dichlorobenzene	<2.0	2.0	ug/L							
1,3-Dichlorobenzene	<3.0	3.0	ug/L							
1,4-Dichlorobenzene	<3.0	3.0	ug/L							
2,4-Dichlorophenol	<5.0	5.0	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4K2653 - EPA 3510C_MS										
Blank (B4K2653-BLK1) Continued				Prepared: 11/26/24 Analyzed: 12/03/24						
Diethyl phthalate	<3.0	3.0	ug/L							
2,4-Dimethylphenol	<6.0	6.0	ug/L							
Dimethyl phthalate	<3.0	3.0	ug/L							
4,6-Dinitro-2-methylphenol	<17	17	ug/L							
2,4-Dinitrophenol	<10	10	ug/L							
2,6-Dinitrotoluene	<3.0	3.0	ug/L							
2,4-Dinitrotoluene	<3.0	3.0	ug/L							
Di-n-octyl phthalate	<7.0	7.0	ug/L							
1,2-Diphenylhydrazine	<3.0	3.0	ug/L							
Bis(2-ethylhexyl)phthalate	<19	19	ug/L							
Fluoranthene	<4.0	4.0	ug/L							
Fluorene	<3.0	3.0	ug/L							
Hexachlorobenzene	<7.0	7.0	ug/L							
Hexachlorobutadiene	<8.0	8.0	ug/L							
Hexachlorocyclopentadiene	<6.0	6.0	ug/L							
Hexachloroethane	<3.0	3.0	ug/L							
Indeno (1,2,3-cd) pyrene	<5.0	5.0	ug/L							
Isophorone	<4.0	4.0	ug/L							
2-Methylnaphthalene	<5.0	5.0	ug/L							
2-Methylphenol	<4.0	4.0	ug/L							
3-Methylphenol	<4.0	4.0	ug/L							
4-Methylphenol	<4.0	4.0	ug/L							
Naphthalene	<4.0	4.0	ug/L							
4-Nitroaniline	<5.0	5.0	ug/L							
3-Nitroaniline	<10	10	ug/L							
2-Nitroaniline	<4.0	4.0	ug/L							
Nitrobenzene	<5.0	5.0	ug/L							
2-Nitrophenol	<6.0	6.0	ug/L							
4-Nitrophenol	<5.0	5.0	ug/L							
N-Nitrosodimethylamine	<3.0	3.0	ug/L							
N-Nitrosodiphenylamine	<4.0	4.0	ug/L							
N-Nitrosodi-n-propylamine	<6.0	6.0	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4K2653 - EPA 3510C_MS										
Blank (B4K2653-BLK1) Continued				Prepared: 11/26/24 Analyzed: 12/03/24						
Pentachlorophenol	<17	17	ug/L							
Phenanthrene	<3.0	3.0	ug/L							
Phenol	<3.0	3.0	ug/L							
Pyrene	<3.0	3.0	ug/L							
1,2,4-Trichlorobenzene	<4.0	4.0	ug/L							
2,4,5-Trichlorophenol	<6.0	6.0	ug/L							
2,4,6-Trichlorophenol	<8.0	8.0	ug/L							
Surrogate: 2-Fluorobiphenyl	*19.1*		*ug/L*	*25.0*		*76.2*	*43-116*			
Surrogate: 2-Fluorophenol	*20.7*		*ug/L*	*50.0*		*41.3*	*21-100*			
Surrogate: Nitrobenzene-d5	*22.5*		*ug/L*	*25.0*		*90.0*	*35-134*			
Surrogate: Phenol-d6	*13.0*		*ug/L*	*50.0*		*25.9*	*10-94*			
Surrogate: Terphenyl-dl4	*28.1*		*ug/L*	*25.0*		*112*	*33-141*			
Surrogate: 2,4,6-Tribromophenol	*26.2*		*ug/L*	*50.0*		*52.5*	*10-123*			
LCS (B4K2653-BS1)				Prepared: 11/26/24 Analyzed: 12/03/24						
Acenaphthene	**30.7**	3.0	ug/L	30.0		102	31-104			
Anthracene	**30.1**	3.0	ug/L	30.0		100	33-115			
Benzo(a)pyrene	**31.3**	3.0	ug/L	30.0		104	26-111			
Benzo(b)fluoranthene	**30.3**	4.0	ug/L	30.0		101	24-118			
Butyl benzyl phthalate	**30.0**	6.0	ug/L	30.0		100	12-126			
4-Chloro-3-methylphenol	**44.5**	8.0	ug/L	30.0		148	23-104			QL-06
Bis(2-chloroethyl)ether	**32.2**	4.0	ug/L	30.0		107	30-121			
2-Chloronaphthalene	**19.9**	5.0	ug/L	30.0		66.4	35-102			
4-Chlorophenyl phenyl ether	**31.1**	3.0	ug/L	30.0		104	41-128			
1,4-Dichlorobenzene	**26.6**	3.0	ug/L	30.0		88.6	25-100			
2,4-Dichlorophenol	**24.9**	5.0	ug/L	30.0		82.9	14-100			
Di-n-octyl phthalate	**36.0**	7.0	ug/L	30.0		120	13-120			
Fluoranthene	**32.4**	4.0	ug/L	30.0		108	26-111			
Fluorene	**31.7**	3.0	ug/L	30.0		106	37-94			
Hexachlorobenzene	**34.5**	7.0	ug/L	30.0		115	2-152			
Hexachlorobutadiene	**22.9**	8.0	ug/L	30.0		76.2	24-86			
Hexachloroethane	**27.2**	3.0	ug/L	30.0		90.7	17-115			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4K2653 - EPA 3510C_MS										
LCS (B4K2653-BS1) Continued				Prepared: 11/26/24 Analyzed: 12/03/24						
Isophorone	**32.0**	4.0	ug/L	30.0		107	35-101			
Naphthalene	**26.4**	4.0	ug/L	30.0		88.1	36-94			
Nitrobenzene	**29.5**	5.0	ug/L	30.0		98.4	34-112			
2-Nitrophenol	**26.4**	6.0	ug/L	30.0		87.9	8.2-99			
N-Nitrosodi-n-propylamine	**30.5**	6.0	ug/L	30.0		102	20-138			
Pentachlorophenol	**19.4**	17	ug/L	30.0		64.8	1-90.5			J
Phenol	**11.4**	3.0	ug/L	30.0		38.0	12-52			
Pyrene	**28.6**	3.0	ug/L	30.0		95.2	29-120			
1,2,4-Trichlorobenzene	**25.4**	4.0	ug/L	30.0		84.8	29-89			
2,4,6-Trichlorophenol	**25.6**	8.0	ug/L	30.0		85.4	7.9-100			
Surrogate: 2-Fluorobiphenyl	*21.2*		*ug/L*	*25.0*		*84.9*	*43-116*			
Surrogate: 2-Fluorophenol	*26.4*		*ug/L*	*50.0*		*52.9*	*21-100*			
Surrogate: Nitrobenzene-d5	*30.2*		*ug/L*	*25.0*		*121*	*35-134*			
Surrogate: Phenol-d6	*16.1*		*ug/L*	*50.0*		*32.2*	*10-94*			
Surrogate: Terphenyl-dl4	*27.6*		*ug/L*	*25.0*		*110*	*33-141*			
Surrogate: 2,4,6-Tribromophenol	*33.8*		*ug/L*	*50.0*		*67.5*	*10-123*			
LCS Dup (B4K2653-BSD1)				Prepared: 11/26/24 Analyzed: 12/03/24						
Acenaphthene	**29.9**	3.0	ug/L	30.0		99.5	31-104	2.87	30	
Anthracene	**30.0**	3.0	ug/L	30.0		100	33-115	0.233	30	
Benzo(a)pyrene	**32.3**	3.0	ug/L	30.0		108	26-111	3.30	30	
Benzo(b)fluoranthene	**30.8**	4.0	ug/L	30.0		102	24-118	1.47	30	
Butyl benzyl phthalate	**34.7**	6.0	ug/L	30.0		116	12-126	14.5	30	
4-Chloro-3-methylphenol	**41.3**	8.0	ug/L	30.0		138	23-104	7.62	30	QL-06
Bis(2-chloroethyl)ether	**30.0**	4.0	ug/L	30.0		100	30-121	7.03	30	
2-Chloronaphthalene	**19.1**	5.0	ug/L	30.0		63.8	35-102	4.04	30	
4-Chlorophenyl phenyl ether	**29.0**	3.0	ug/L	30.0		96.7	41-128	6.92	30	
1,4-Dichlorobenzene	**26.6**	3.0	ug/L	30.0		88.7	25-100	0.150	30	
2,4-Dichlorophenol	**25.7**	5.0	ug/L	30.0		85.7	14-100	3.40	30	
Di-n-octyl phthalate	**36.3**	7.0	ug/L	30.0		121	13-120	0.803	30	QL-03
Fluoranthene	**29.0**	4.0	ug/L	30.0		96.6	26-111	11.0	30	
Fluorene	**28.5**	3.0	ug/L	30.0		95.0	37-94	10.5	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 625.1 Semivolatile Organics by GC/MS - Quality Control										
Batch B4K2653 - EPA 3510C_MS										
LCS Dup (B4K2653-BSD1) Continued				Prepared: 11/26/24 Analyzed: 12/03/24						
Hexachlorobenzene	**33.2**	7.0	ug/L	30.0		111	2-152	3.57	30	
Hexachlorobutadiene	**24.9**	8.0	ug/L	30.0		82.9	24-86	8.38	30	
Hexachloroethane	**26.1**	3.0	ug/L	30.0		86.9	17-115	4.28	30	
Isophorone	**31.4**	4.0	ug/L	30.0		105	35-101	1.96	30	
Naphthalene	**26.7**	4.0	ug/L	30.0		89.1	36-94	1.13	30	
Nitrobenzene	**30.6**	5.0	ug/L	30.0		102	34-112	3.49	30	
2-Nitrophenol	**30.4**	6.0	ug/L	30.0		101	8.2-99	14.1	30	
N-Nitrosodi-n-propylamine	**30.0**	6.0	ug/L	30.0		100	20-138	1.62	30	
Pentachlorophenol	**26.0**	17	ug/L	30.0		86.7	1-90.5	28.9	30	
Phenol	**11.2**	3.0	ug/L	30.0		37.4	12-52	1.77	30	
Pyrene	**33.1**	3.0	ug/L	30.0		110	29-120	14.6	30	
1,2,4-Trichlorobenzene	**25.6**	4.0	ug/L	30.0		85.3	29-89	0.588	30	
2,4,6-Trichlorophenol	**24.1**	8.0	ug/L	30.0		80.3	7.9-100	6.08	30	
Surrogate: 2-Fluorobiphenyl	*21.0*		*ug/L*	*25.0*		*84.0*	*43-116*			
Surrogate: 2-Fluorophenol	*28.2*		*ug/L*	*50.0*		*56.5*	*21-100*			
Surrogate: Nitrobenzene-d5	*30.4*		*ug/L*	*25.0*		*122*	*35-134*			
Surrogate: Phenol-d6	*17.5*		*ug/L*	*50.0*		*35.1*	*10-94*			
Surrogate: Terphenyl-dl4	*31.9*		*ug/L*	*25.0*		*128*	*33-141*			
Surrogate: 2,4,6-Tribromophenol	*41.0*		*ug/L*	*50.0*		*82.1*	*10-123*			
General Chemistry Analyses - Quality Control										
Batch B4K2204 - NO PREP										
Blank (B4K2204-BLK1)				Prepared & Analyzed: 11/22/24						
Total Suspended Solids	<5.0	5.0	mg/L							
LCS (B4K2204-BS1)				Prepared & Analyzed: 11/22/24						
Total Suspended Solids	**1050**	5.0	mg/L	1000		105	80-120			
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
Blank (B4K2531-BLK1)				Prepared & Analyzed: 11/25/24						
Benzene	<0.20	0.20	ug/L							
Bromodichloromethane	<0.20	0.20	ug/L							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
Blank (B4K2531-BLK1) Continued				Prepared & Analyzed: 11/25/24						
Bromoform	<0.50	0.50	ug/L							
Bromomethane	<0.50	0.50	ug/L							
Carbon Tetrachloride	<0.30	0.30	ug/L							
Chlorobenzene	<0.30	0.30	ug/L							
Chloroethane	<0.50	0.50	ug/L							
2-Chloroethyl Vinyl Ether	<6.0	6.0	ug/L							
Chloroform	<0.30	0.30	ug/L							
Chloromethane	<0.40	0.40	ug/L							
Dibromochloromethane	<0.30	0.30	ug/L							
1,2-Dichlorobenzene	<0.30	0.30	ug/L							
1,4-Dichlorobenzene	<0.30	0.30	ug/L							
1,3-Dichlorobenzene	<0.10	0.10	ug/L							
1,1-Dichloroethane	<0.20	0.20	ug/L							
1,2-Dichloroethane (EDC)	<0.30	0.30	ug/L							
trans-1,2-Dichloroethylene	<0.40	0.40	ug/L							
1,1-Dichloroethylene	<0.30	0.30	ug/L							
1,2-Dichloropropane	<0.50	0.50	ug/L							
cis-1,3-Dichloropropylene	<0.20	0.20	ug/L							
trans-1,3-Dichloropropylene	<0.20	0.20	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<0.30	0.30	ug/L							
Tetrachloroethylene (PCE)	<0.50	0.50	ug/L							
Toluene	<0.30	0.30	ug/L							
1,1,2-Trichloroethane	<0.30	0.30	ug/L							
1,1,1-Trichloroethane	<0.30	0.30	ug/L							
Trichloroethylene (TCE)	<0.20	0.20	ug/L							
Vinyl chloride	<0.50	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*43.7*		*ug/L*	*50.0*		*87.3*	*70-140*			
Surrogate: Dibromofluoromethane	*49.1*		*ug/L*	*50.0*		*98.2*	*70-140*			
Surrogate: Toluene-d8	*48.6*		*ug/L*	*50.0*		*97.2*	*70-140*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
LCS (B4K2531-BS1)				Prepared & Analyzed: 11/25/24						
Benzene	**15.4**	0.20	ug/L	20.0		76.8	75-125			
Bromodichloromethane	**14.8**	0.20	ug/L	20.0		73.8	75-125			QL-07
Bromoform	**17.5**	0.50	ug/L	20.0		87.6	75-125			
Bromomethane	**15.0**	0.50	ug/L	20.0		75.2	75-125			
Carbon Tetrachloride	**16.8**	0.30	ug/L	20.0		84.2	75-125			
Chlorobenzene	**16.2**	0.30	ug/L	20.0		81.0	75-125			
Chloroethane	**20.5**	0.50	ug/L	20.0		103	75-125			
2-Chloroethyl Vinyl Ether	**14.3**	6.0	ug/L	20.0		71.4	70-130			
Chloroform	**15.3**	0.30	ug/L	20.0		76.4	75-125			
Chloromethane	**25.9**	0.40	ug/L	20.0		129	65-125			QL-02
Dibromochloromethane	**17.4**	0.30	ug/L	20.0		86.9	75-125			
1,2-Dichlorobenzene	**15.2**	0.30	ug/L	20.0		76.0	70-130			
1,4-Dichlorobenzene	**15.4**	0.30	ug/L	20.0		77.0	75-125			
1,3-Dichlorobenzene	**16.0**	0.10	ug/L	20.0		79.8	70-130			
1,1-Dichloroethane	**16.4**	0.20	ug/L	20.0		82.0	70-125			
1,2-Dichloroethane (EDC)	**15.4**	0.30	ug/L	20.0		77.0	75-125			
trans-1,2-Dichloroethylene	**17.0**	0.40	ug/L	20.0		85.2	75-125			
1,1-Dichloroethylene	**18.5**	0.30	ug/L	20.0		92.4	70-130			
1,2-Dichloropropane	**13.9**	0.50	ug/L	20.0		69.6	75-130			QL-07
cis-1,3-Dichloropropylene	**14.1**	0.20	ug/L	20.0		70.5	75-125			QL-07
trans-1,3-Dichloropropylene	**15.9**	0.20	ug/L	20.0		79.3	70-130			
Ethylbenzene	**16.2**	0.20	ug/L	20.0		80.8	75-125			
Methylene Chloride	**17.3**	5.0	ug/L	20.0		86.6	75-130			
1,1,2,2-Tetrachloroethane	**13.7**	0.30	ug/L	20.0		68.6	70-135			QL-02
Tetrachloroethylene (PCE)	**18.5**	0.50	ug/L	20.0		92.4	75-125			
Toluene	**16.9**	0.30	ug/L	20.0		84.3	75-125			
1,1,2-Trichloroethane	**14.8**	0.30	ug/L	20.0		73.9	75-125			QL-02
1,1,1-Trichloroethane	**16.2**	0.30	ug/L	20.0		80.9	75-125			
Trichloroethylene (TCE)	**15.8**	0.20	ug/L	20.0		78.8	75-125			
Vinyl chloride	**36.0**	0.50	ug/L	20.0		180	75-125			QL-06
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/L*	*50.0*		*91.6*	*70-140*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
LCS (B4K2531-BS1) Continued				Prepared & Analyzed: 11/25/24						
Surrogate: Dibromofluoromethane	*45.4*		*ug/L*	*50.0*		*90.8*	*70-140*			
Surrogate: Toluene-d8	*45.8*		*ug/L*	*50.0*		*91.7*	*70-140*			
LCS Dup (B4K2531-BSD1)				Prepared & Analyzed: 11/25/24						
Benzene	**14.0**	0.20	ug/L	20.0		70.2	75-125	9.04	30	QL-03
Bromodichloromethane	**13.0**	0.20	ug/L	20.0		64.8	75-125	12.8	30	QL-07
Bromoform	**20.0**	0.50	ug/L	20.0		99.8	75-125	13.0	30	
Bromomethane	**16.0**	0.50	ug/L	20.0		79.8	75-125	5.87	30	
Carbon Tetrachloride	**14.9**	0.30	ug/L	20.0		74.4	75-125	12.4	30	QL-03
Chlorobenzene	**16.9**	0.30	ug/L	20.0		84.4	75-125	3.99	30	
Chloroethane	**15.2**	0.50	ug/L	20.0		76.2	75-125	29.6	30	
2-Chloroethyl Vinyl Ether	**15.0**	6.0	ug/L	20.0		75.2	70-130	5.25	30	
Chloroform	**14.2**	0.30	ug/L	20.0		71.1	75-125	7.12	30	QL-03
Chloromethane	**22.1**	0.40	ug/L	20.0		110	65-125	15.7	30	
Dibromochloromethane	**18.6**	0.30	ug/L	20.0		93.0	75-125	6.78	30	
1,2-Dichlorobenzene	**16.4**	0.30	ug/L	20.0		82.2	70-130	7.77	30	
1,4-Dichlorobenzene	**16.2**	0.30	ug/L	20.0		81.0	75-125	4.94	30	
1,3-Dichlorobenzene	**16.3**	0.10	ug/L	20.0		81.6	70-130	2.29	30	
1,1-Dichloroethane	**14.8**	0.20	ug/L	20.0		73.8	70-125	10.5	30	
1,2-Dichloroethane (EDC)	**14.0**	0.30	ug/L	20.0		70.2	75-125	9.17	30	QL-03
trans-1,2-Dichloroethylene	**16.3**	0.40	ug/L	20.0		81.4	75-125	4.56	30	
1,1-Dichloroethylene	**17.0**	0.30	ug/L	20.0		85.2	70-130	8.05	30	
1,2-Dichloropropane	**12.6**	0.50	ug/L	20.0		62.9	75-130	10.2	30	QL-07
cis-1,3-Dichloropropylene	**12.6**	0.20	ug/L	20.0		63.0	75-125	11.2	30	QL-07
trans-1,3-Dichloropropylene	**16.2**	0.20	ug/L	20.0		80.8	70-130	1.94	30	
Ethylbenzene	**15.6**	0.20	ug/L	20.0		78.2	75-125	3.33	30	
Methylene Chloride	**14.4**	5.0	ug/L	20.0		71.9	75-130	18.5	30	QL-03
1,1,2,2-Tetrachloroethane	**15.4**	0.30	ug/L	20.0		77.2	70-135	11.8	30	
Tetrachloroethylene (PCE)	**19.8**	0.50	ug/L	20.0		99.2	75-125	7.09	30	
Toluene	**16.9**	0.30	ug/L	20.0		84.6	75-125	0.296	30	
1,1,2-Trichloroethane	**15.2**	0.30	ug/L	20.0		76.1	75-125	2.93	30	
1,1,1-Trichloroethane	**13.7**	0.30	ug/L	20.0		68.4	75-125	16.7	30	QL-07
Trichloroethylene (TCE)	**13.8**	0.20	ug/L	20.0		69.0	75-125	13.4	30	QL-03

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
LCS Dup (B4K2531-BSD1) Continued				Prepared & Analyzed: 11/25/24						
Vinyl chloride	**31.6**	0.50	ug/L	20.0		158	75-125	13.0	30	QL-06
Surrogate: 4-Bromofluorobenzene	*42.4*		*ug/L*	*50.0*		*84.7*	*70-140*			
Surrogate: Dibromofluoromethane	*41.1*		*ug/L*	*50.0*		*82.3*	*70-140*			
Surrogate: Toluene-d8	*46.8*		*ug/L*	*50.0*		*93.6*	*70-140*			
Matrix Spike (B4K2531-MS1)		**Source: 4K21013-01**		Prepared & Analyzed: 11/25/24						
Benzene	**14.0**	0.20	ug/L	20.0	<0.50	69.8	70-130			
Bromodichloromethane	**13.3**	0.20	ug/L	20.0	<0.50	66.4	70-130			
Bromoform	**21.9**	0.50	ug/L	20.0	<0.50	110	70-130			
Bromomethane	**14.7**	0.50	ug/L	20.0	<0.50	73.3	70-130			
Carbon Tetrachloride	**14.2**	0.30	ug/L	20.0	<0.50	71.0	70-130			
Chlorobenzene	**17.0**	0.30	ug/L	20.0	<0.50	84.8	70-130			
Chloroethane	**15.7**	0.50	ug/L	20.0	<0.50	78.6	70-130			
2-Chloroethyl Vinyl Ether	**20.4**	6.0	ug/L	20.0	<10	102	70-130			
Chloroform	**13.9**	0.30	ug/L	20.0	<0.50	69.5	70-130			
Chloromethane	**15.6**	0.40	ug/L	20.0	<0.50	78.2	65-130			
Dibromochloromethane	**19.4**	0.30	ug/L	20.0	<0.50	97.1	70-130			
1,2-Dichlorobenzene	**17.1**	0.30	ug/L	20.0	<0.50	85.6	70-130			
1,4-Dichlorobenzene	**16.4**	0.30	ug/L	20.0	<0.50	82.2	70-130			
1,3-Dichlorobenzene	**16.4**	0.10	ug/L	20.0	<0.50	82.1	70-130			
1,1-Dichloroethane	**14.2**	0.20	ug/L	20.0	<0.50	71.0	70-130			
1,2-Dichloroethane (EDC)	**15.1**	0.30	ug/L	20.0	0.980	70.8	70-130			
trans-1,2-Dichloroethylene	**16.8**	0.40	ug/L	20.0	2.97	69.3	70-130			
1,1-Dichloroethylene	**16.4**	0.30	ug/L	20.0	<0.50	82.2	70-130			
1,2-Dichloropropane	**12.4**	0.50	ug/L	20.0	<0.50	62.2	70-130			
cis-1,3-Dichloropropylene	**13.2**	0.20	ug/L	20.0	<0.50	65.8	70-130			
trans-1,3-Dichloropropylene	**16.4**	0.20	ug/L	20.0	<0.50	82.0	70-130			
Ethylbenzene	**15.3**	0.20	ug/L	20.0	<0.50	76.3	70-130			
Methylene Chloride	**14.5**	5.0	ug/L	20.0	<5.0	72.3	70-130			
1,1,2,2-Tetrachloroethane	**16.4**	0.30	ug/L	20.0	<0.50	81.8	70-130			
Tetrachloroethylene (PCE)	**19.0**	0.50	ug/L	20.0	<0.50	95.2	70-130			
Toluene	**16.3**	0.30	ug/L	20.0	<0.50	81.4	70-130			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - WDR Samples

AA Project No: MB874671
Date Received: 11/21/24
Date Reported: 12/10/24

Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 624.1 VOCs by GC/MS - Quality Control										
Batch B4K2531 - EPA 5030B										
Matrix Spike (B4K2531-MS1) Continued Source: 4K21013-01 Prepared & Analyzed: 11/25/24										
1,1,2-Trichloroethane	**16.2**	0.30	ug/L	20.0	<0.50	80.8	70-130			
1,1,1-Trichloroethane	**13.7**	0.30	ug/L	20.0	<0.50	68.4	70-130			QL-07
Trichloroethylene (TCE)	**13.7**	0.20	ug/L	20.0	0.210	67.6	70-130			
Vinyl chloride	**25.4**	0.50	ug/L	20.0	<0.50	127	70-130			
Surrogate: 4-Bromofluorobenzene	*41.3*		*ug/L*	*50.0*		*82.5*	*70-140*			
Surrogate: Dibromofluoromethane	*41.8*		*ug/L*	*50.0*		*83.6*	*70-140*			
Surrogate: Toluene-d8	*44.3*		*ug/L*	*50.0*		*88.5*	*70-140*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	MB874671
Project No:	130072-024	**Date Received:**	11/21/24
Project Name:	Cooper Drum - WDR Samples	**Date Reported:**	12/10/24

Special Notes

	J	:	Detected but below the Method Reporting Limit (MRL) / Limit of Quantitation (LOQ); therefore, result is an estimated concentration.
[1] =	**QL-02**	:	The recovery for this analyte is outside of the acceptance control limits for the LCS. The data was validated based on the acceptable recovery for this analyte in the LCSD.
[2] =	**QL-03**	:	The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.
[3] =	**QL-06**	:	The recovery for this analyte in the LCS and LCSD is marginally above the upper control limit, therefore the reported concentration for this analyte may be biased high.
[4] =	**QL-07**	:	The recovery for this analyte in the LCS and LCSD is marginally below the lower control limit, therefore the reported concentration for this analyte may be biased low.
[5] =	**S-GC**	:	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

Viorel Vasile
Operations Manager

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

November 26, 2024

Viorel Vasile
American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Report No.: 2411198
Project Name: # MB8746671 / 4K21013 P.O. # SUB04869-MB8746741

Dear Viorel Vasile,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on November 22, 2024.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. Analytes flagged ANC are not offered by ELAP for certification. Analytes flagged ANA are offered by ELAP; however, they are not PLS certified.

The laboratory report may not be reproduced, except in full, without the written approval of the laboratory. The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) are provided on the final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

File #:75563
Report Date: 11/26/24
Submitted: 11/22/24
PLS Report No.: 2411198

American Analytics
9765 Eton Avenue
Chatsworth, CA 91311

Attn: Viorel Vasile Phone: (818) 998-5547 FAX:(818) 998-7258

Project: # MB8746671 / 4K21013 P.O. # SUB04869-MB8746741

Sample ID: 4K21013-01 Water (2411198-01) Sampled: 11/21/24 12:05 Received: 11/22/24

Analyte	Results	Flag	D.F.	Units	PQL		Prep/Test Method	Prepared	Analyzed	By	Batch
Chemical Oxygen Demand	ND		2	mg/L	24.0	-	SM 5220C	11/22/24	11/22/24	ss	BK42512
Analyte	Results	Flag	D.F.	Units	PQL		Prep/Test Method	Prepared	Analyzed	By	Batch
Soluble Sulfide	**0.022**		1	mg/L	0.020	-	SM 4500-S D	11/25/24	11/25/24	ss	BK42526

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BK42512 - -										
Blank	**Prepared & Analyzed: 11/22/24**									
Chemical Oxygen Demand	ND	12.0	mg/L							
LCS	**Prepared & Analyzed: 11/22/24**									
Chemical Oxygen Demand	99.2	12.0	mg/L	100		99.2	90-110			
Duplicate Source: 2411157-01	**Prepared & Analyzed: 11/22/24**									
Chemical Oxygen Demand	357	120	mg/L		369			3.29	5	
Duplicate Source: 2411168-01	**Prepared & Analyzed: 11/22/24**									
Chemical Oxygen Demand	7300	960	mg/L		7140			2.19	5	
Batch BK42526 - -										
Blank	**Prepared & Analyzed: 11/25/24**									
Soluble Sulfide	ND	0.020	mg/L							
LCS	**Prepared & Analyzed: 11/25/24**									
Soluble Sulfide	0.098	0.020	mg/L	0.100		98.5	85-115			
Matrix Spike Source: 2411172-01	**Prepared & Analyzed: 11/25/24**									
Soluble Sulfide	0.134	0.020	mg/L	0.100	0.034	99.3	75-125			
Matrix Spike Dup Source: 2411172-01	**Prepared & Analyzed: 11/25/24**									
Soluble Sulfide	0.135	0.020	mg/L	0.100	0.034	100	75-125	0.894	20	

Notes and Definitions

NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
NR	Not Reported
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, LACSD No. 10138

Rick Owen Parlin

Authorized Signature(s)

POSITIVE LABS

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.: #2411198

Client: American Analytics, Inc	**MB8746671 / 4K21013**	**Sampler's Name:**
Project Manager: Viorel Vasile	**Site Address:**	**Sampler's Signature:**
Phone: 818-998-5547 x320	**City:**	**P.O.No: SUB04869-MB8746741**
Fax:	**State & Zip:**	**Quote.:**

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
6 = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	COD	Dissolved Sulfide	Special Instructions
						Please enter the TAT Turnaround Codes ** below		
4K21013-01		1/24/2024	0:05	W	3	X	X	

* Sample date + time from sample bottles.

Please report J-flags

standard TAT

PH CHECK : COD = ≤1
LOT # 10BDH2221

PH CHECK : DISS.S. = ≥7
LOT # 10BDH2221

For Laboratory Use	Relinquished by	Date	Time	Received by
OBSERV. TEMP: 1.8 °C CORREC. TEMP: 1.8 °C THERMO ID: 46 BY: AC		1/25/24	10:40a	Ana C.
	Relinquished by	Date	Time	Received by
A.A. Project No.:	Relinquished by	Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 Fax: 818-998-7258

A.A. COC No.: 29704

Page 1 of 1

Client: Haley & Aldrich | Project Name / No.: Cooper Drum | Sampler's Name: Kris B.

Project Manager: Chris Tsiatsios | Site Address: 9313 Rayo Ave | Sampler's Signature: Kris B.

Phone: | City: South Gate | P.O.No:

Fax: | State & Zip: CA | Quote.:

TAT Turnaround Codes **

1 = Same Day Rush | 4 = 72 Hour Rush

2 = 24 Hour Rush | 5 = 5 Day Rush

3 = 48 Hour Rush | 6 = 10 Working Days (Standard TAT)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name): VOC 624	SVOC 625	COA	Dissolved Sulfide	TSS	PH (field)	Special Instructions
						Please enter the TAT Turnaround Codes ** below						
CD-FDW-112424	4K21013-01	11/21/24	12:05	W	8	X	X	X	X	X	X	Set 24hr TAT on 11/20/24 1130 am
												24 NOV 21 1442

For Laboratory Use

REVIEWED
Date 11/22/24 Time 0500
TAT N Days Sign:

A.A. Project No.: MB87467/4K21013

Relinquished by	Date	Time	Received by
	11/21/24	1442	
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by

Note: By Relinquishing samples to American Analytics, Client agrees to pay for the services requested on this chain of Custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 Days from the date invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) To American Analytics.

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

July 12, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874661 / 4G03013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/03/24 17:07 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,

Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
TO-15 (Mid Level)ppbv					
SVE-VGACE-070324	4G03013-01	Vapor	10	07/03/24 10:55	07/03/24 17:07
SVE-VGACM-070324	4G03013-02	Vapor	10	07/03/24 11:00	07/03/24 17:07
SVE-VGACI-070324	4G03013-03	Vapor	10	07/03/24 11:04	07/03/24 17:07
TO-3 VOCs as Hexane					
SVE-VGACE-070324	4G03013-01	Vapor	10	07/03/24 10:55	07/03/24 17:07
SVE-VGACM-070324	4G03013-02	Vapor	10	07/03/24 11:00	07/03/24 17:07
SVE-VGACI-070324	4G03013-03	Vapor	10	07/03/24 11:04	07/03/24 17:07

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACE-070324

4G03013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACE-070324

4G03013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
cis-1,2-Dichloroethylene	**0.010**	ug/L	0.0079	**2.6**	ppbv	2.0
1,1-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
1,2-Dichloropropane	<0.010	ug/L	0.010	<2.2	ppbv	2.2
trans-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
cis-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
Dichlorotetrafluoroethane	<0.050	ug/L	0.050	<7.2	ppbv	7.2
1,4-Dioxane	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Ethylbenzene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
4-Ethyltoluene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Hexachlorobutadiene	<0.050	ug/L	0.050	<4.7	ppbv	4.7
2-Hexanone (MBK)	<0.049	ug/L	0.049	<12	ppbv	12
Isopropanol (IPA)	<0.10	ug/L	0.10	<41	ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Methylene Chloride	<0.049	ug/L	0.049	<14	ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049	ug/L	0.049	<12	ppbv	12
Styrene	<0.0098	ug/L	0.0098	<2.3	ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050	ug/L	0.050	<7.3	ppbv	7.3
Tetrachloroethylene (PCE)	<0.014	ug/L	0.014	<2.0	ppbv	2.0
Toluene	<0.049	ug/L	0.049	<13	ppbv	13
1,2,4-Trichlorobenzene	<0.020	ug/L	0.020	<2.7	ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACE-070324

4G03013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	<0.011	ug/L	0.011	<2.0	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	103 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACM-070324

4G03013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACM-070324

4G03013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
cis-1,2-Dichloroethylene	**0.0085**	ug/L	0.0079	**2.2**	ppbv	2.0
1,1-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
1,2-Dichloropropane	<0.010	ug/L	0.010	<2.2	ppbv	2.2
trans-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
cis-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
Dichlorotetrafluoroethane	<0.050	ug/L	0.050	<7.2	ppbv	7.2
1,4-Dioxane	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Ethylbenzene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
4-Ethyltoluene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Hexachlorobutadiene	<0.050	ug/L	0.050	<4.7	ppbv	4.7
2-Hexanone (MBK)	<0.049	ug/L	0.049	<12	ppbv	12
Isopropanol (IPA)	<0.10	ug/L	0.10	<41	ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Methylene Chloride	<0.049	ug/L	0.049	<14	ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049	ug/L	0.049	<12	ppbv	12
Styrene	<0.0098	ug/L	0.0098	<2.3	ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050	ug/L	0.050	<7.3	ppbv	7.3
Tetrachloroethylene (PCE)	<0.014	ug/L	0.014	<2.0	ppbv	2.0
Toluene	<0.049	ug/L	0.049	<13	ppbv	13
1,2,4-Trichlorobenzene	<0.020	ug/L	0.020	<2.7	ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACM-070324

4G03013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	<0.011	ug/L	0.011	<2.0	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	101 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACI-070324

4G03013-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACI-070324

4G03013-03 (Vapor)

Analyte	Result		(ug/L)	MRL	Result		(ppbv)	MRL
cis-1,2-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
1,1-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
1,2-Dichloropropane	<0.010		ug/L	0.010	<2.2		ppbv	2.2
trans-1,3-Dichloropropylene	<0.01		ug/L	0.01	<2.2		ppbv	2.2
cis-1,3-Dichloropropylene	<0.01		ug/L	0.01	<2.2		ppbv	2.2
Dichlorotetrafluoroethane	<0.050		ug/L	0.050	<7.2		ppbv	7.2
1,4-Dioxane	<0.010		ug/L	0.010	<2.8		ppbv	2.8
Ethylbenzene	<0.01		ug/L	0.01	<2.3		ppbv	2.3
4-Ethyltoluene	<0.0098		ug/L	0.0098	<2.0		ppbv	2.0
Hexachlorobutadiene	<0.050		ug/L	0.050	<4.7		ppbv	4.7
2-Hexanone (MBK)	<0.049		ug/L	0.049	<12		ppbv	12
Isopropanol (IPA)	<0.10		ug/L	0.10	<41		ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010		ug/L	0.010	<2.8		ppbv	2.8
Methylene Chloride	<0.049		ug/L	0.049	<14		ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049		ug/L	0.049	<12		ppbv	12
Styrene	<0.0098		ug/L	0.0098	<2.3		ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050		ug/L	0.050	<7.3		ppbv	7.3
Tetrachloroethylene (PCE)	**1.3**	**	ug/L	0.014	**190**	**	ppbv	2.0
Toluene	<0.049		ug/L	0.049	<13		ppbv	13
1,2,4-Trichlorobenzene	<0.020		ug/L	0.020	<2.7		ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Matrix:	Vapor	**Sampled:**	07/03/24
Dilution:	1	**Prepared:**	07/05/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	07/05/24

SVE-VGACI-070324

4G03013-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	**0.022**	ug/L	0.011	**4.1**	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	103 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24
Method:	VOCs by EPA TO-3 GC/MS	**Units:**	ppbv

Date Sampled:	07/03/ 1	07/03/ 1	07/03/ 1	
Date Prepared:	07/05/24	07/05/24	07/05/24	
Date Analyzed:	07/05/24	07/05/24	07/05/24	
AA ID No:	4G03013-01	4G03013-02	4G03013-03	
Client ID No:	SVE-VGACE-070324	SVE-VGACM-070324	SVE-VGACI-070324	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL
TO-3 VOCs as Hexane (TO-3)				
TNMOC as Hexane	<1200	<1200	**1400**	1200
Surrogates				**%REC Limits**
4-Bromofluorobenzene	105%	104%	106%	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
Blank (B4G0826-BLK1)				Prepared & Analyzed: 07/05/24						
Acetone	<21	21	ppbv							
Benzene	<3.0	3.0	ppbv							
Benzyl chloride	<9.7	9.7	ppbv							
Bromodichloromethane	<7.5	7.5	ppbv							
Bromoform	<4.8	4.8	ppbv							
Bromomethane	<2.6	2.6	ppbv							
2-Butanone (MEK)	<17	17	ppbv							
Carbon Disulfide	<16	16	ppbv							
Carbon Tetrachloride	<2.1	2.1	ppbv							
Chlorobenzene	<2.2	2.2	ppbv							
Chloroethane	<3.8	3.8	ppbv							
Chloroform	<2.0	2.0	ppbv							
Chloromethane	<4.8	4.8	ppbv							
Dibromochloromethane	<2.3	2.3	ppbv							
1,2-Dibromoethane (EDB)	<2.6	2.6	ppbv							
1,2-Dichlorobenzene	<3.3	3.3	ppbv							
1,3-Dichlorobenzene	<3.3	3.3	ppbv							
1,4-Dichlorobenzene	<3.3	3.3	ppbv							
Dichlorodifluoromethane (R12)	<10	10	ppbv							
1,1-Dichloroethane	<2.0	2.0	ppbv							
1,2-Dichloroethane (EDC)	<2.5	2.5	ppbv							
cis-1,2-Dichloroethylene	<2.0	2.0	ppbv							
1,1-Dichloroethylene	<2.0	2.0	ppbv							
trans-1,2-Dichloroethylene	<2.0	2.0	ppbv							
1,2-Dichloropropane	<2.2	2.2	ppbv							
trans-1,3-Dichloropropylene	<2.2	2.2	ppbv							
cis-1,3-Dichloropropylene	<2.2	2.2	ppbv							
Dichlorotetrafluoroethane	<7.2	7.2	ppbv							
1,4-Dioxane	<2.8	2.8	ppbv							
Ethylbenzene	<2.3	2.3	ppbv							
4-Ethyltoluene	<2.0	2.0	ppbv							
Hexachlorobutadiene	<4.7	4.7	ppbv							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
Blank (B4G0826-BLK1) Continued				Prepared & Analyzed: 07/05/24						
2-Hexanone (MBK)	<12	12	ppbv							
Isopropanol (IPA)	<41	41	ppbv							
Methyl-tert-Butyl Ether (MTBE)	<2.8	2.8	ppbv							
Methylene Chloride	<14	14	ppbv							
4-Methyl-2-pentanone (MIBK)	<12	12	ppbv							
Styrene	<2.3	2.3	ppbv							
1,1,2,2-Tetrachloroethane	<7.3	7.3	ppbv							
Tetrachloroethylene (PCE)	<2.0	2.0	ppbv							
Toluene	<13	13	ppbv							
1,2,4-Trichlorobenzene	<2.7	2.7	ppbv							
1,1,2-Trichloroethane	<3.7	3.7	ppbv							
1,1,1-Trichloroethane	<3.7	3.7	ppbv							
Trichloroethylene (TCE)	<2.0	2.0	ppbv							
Trichlorofluoromethane (R11)	<8.9	8.9	ppbv							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<6.5	6.5	ppbv							
1,3,5-Trimethylbenzene	<2.0	2.0	ppbv							
1,2,4-Trimethylbenzene	<2.0	2.0	ppbv							
Vinyl acetate	<2.8	2.8	ppbv							
Vinyl chloride	<3.9	3.9	ppbv							
o-Xylene	<2.3	2.3	ppbv							
m,p-Xylenes	<2.3	2.3	ppbv							
1,2,3-Trichloropropane	<2.0	2.0	ppbv							
Surrogate: 4-Bromofluorobenzene	*20.1*		*ppbv*	*20.0*		*100*	*70-130*			
LCS (B4G0826-BS1)				Prepared & Analyzed: 07/05/24						
Acetone	**44.8**	21	ppbv	40.0		112	70-130		30	
Benzene	**38.2**	3.0	ppbv	40.0		95.6	70-130		30	
Benzyl chloride	**42.9**	9.7	ppbv	40.0		107	70-130		30	
Bromodichloromethane	**41.4**	7.5	ppbv	40.0		103	70-130		30	
Bromoform	**41.9**	4.8	ppbv	40.0		105	70-130		30	
Bromomethane	**40.4**	2.6	ppbv	40.0		101	70-130		30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
LCS (B4G0826-BS1) Continued				Prepared & Analyzed: 07/05/24						
2-Butanone (MEK)	**39.4**	17	ppbv	40.0		98.4	70-130		30	
Carbon Disulfide	**38.5**	16	ppbv	40.0		96.2	70-130		30	
Carbon Tetrachloride	**43.7**	2.1	ppbv	40.0		109	70-130		30	
Chlorobenzene	**40.5**	2.2	ppbv	40.0		101	70-130		30	
Chloroethane	**42.9**	3.8	ppbv	40.0		107	70-130		30	
Chloroform	**41.9**	2.0	ppbv	40.0		105	70-130		30	
Chloromethane	**36.1**	4.8	ppbv	40.0		90.2	70-130		30	
Dibromochloromethane	**45.6**	2.3	ppbv	40.0		114	70-130		30	
1,2-Dibromoethane (EDB)	**39.9**	2.6	ppbv	40.0		99.6	70-130		30	
1,2-Dichlorobenzene	**38.7**	3.3	ppbv	40.0		96.8	70-130		30	
1,3-Dichlorobenzene	**40.3**	3.3	ppbv	40.0		101	70-130		30	
1,4-Dichlorobenzene	**39.0**	3.3	ppbv	40.0		97.5	70-130		30	
Dichlorodifluoromethane (R12)	**33.5**	10	ppbv	40.0		83.8	70-130		30	
1,1-Dichloroethane	**40.6**	2.0	ppbv	40.0		102	70-130		30	
1,2-Dichloroethane (EDC)	**47.6**	2.5	ppbv	40.0		119	70-130		30	
cis-1,2-Dichloroethylene	**42.7**	2.0	ppbv	40.0		107	70-130		30	
1,1-Dichloroethylene	**45.4**	2.0	ppbv	40.0		114	70-130		30	
trans-1,2-Dichloroethylene	**43.1**	2.0	ppbv	40.0		108	70-130		30	
1,2-Dichloropropane	**37.5**	2.2	ppbv	40.0		93.7	70-130		30	
trans-1,3-Dichloropropylene	**41.3**	2.2	ppbv	40.0		103	70-130		30	
cis-1,3-Dichloropropylene	**39.7**	2.2	ppbv	40.0		99.3	70-130		30	
Dichlorotetrafluoroethane	**42.2**	7.2	ppbv	40.0		105	70-130		30	
Ethylbenzene	**39.3**	2.3	ppbv	40.0		98.3	70-130		30	
4-Ethyltoluene	**42.3**	2.0	ppbv	40.0		106	70-130		30	
Hexachlorobutadiene	**38.0**	4.7	ppbv	40.0		94.9	70-130		30	
2-Hexanone (MBK)	**40.9**	12	ppbv	40.0		102	70-130		30	
Isopropanol (IPA)	**45.3**	41	ppbv	40.0		113	70-130		30	
Methylene Chloride	**42.4**	14	ppbv	40.0		106	70-130		30	
4-Methyl-2-pentanone (MIBK)	**38.8**	12	ppbv	40.0		96.9	70-130		30	
Styrene	**39.9**	2.3	ppbv	40.0		99.8	70-130		30	
1,1,2,2-Tetrachloroethane	**35.3**	7.3	ppbv	40.0		88.2	70-130		30	
Tetrachloroethylene (PCE)	**42.1**	2.0	ppbv	40.0		105	70-130		30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
LCS (B4G0826-BS1) Continued				Prepared & Analyzed: 07/05/24						
Toluene	**39.1**	13	ppbv	40.0		97.6	70-130		30	
1,2,4-Trichlorobenzene	**35.0**	2.7	ppbv	40.0		87.4	70-130		30	
1,1,2-Trichloroethane	**40.3**	3.7	ppbv	40.0		101	70-130		30	
1,1,1-Trichloroethane	**44.0**	3.7	ppbv	40.0		110	70-130		30	
Trichloroethylene (TCE)	**42.2**	2.0	ppbv	40.0		105	70-130		30	
Trichlorofluoromethane (R11)	**42.9**	8.9	ppbv	40.0		107	70-130		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**40.8**	6.5	ppbv	40.0		102	70-130		30	
1,3,5-Trimethylbenzene	**40.6**	2.0	ppbv	40.0		102	70-130		30	
1,2,4-Trimethylbenzene	**40.7**	2.0	ppbv	40.0		102	70-130		30	
Vinyl acetate	**41.3**	2.8	ppbv	40.0		103	70-130		30	
Vinyl chloride	**40.1**	3.9	ppbv	40.0		100	70-130		30	
o-Xylene	**39.1**	2.3	ppbv	40.0		97.6	70-130		30	
m,p-Xylenes	**81.8**	2.3	ppbv	80.0		102	70-130		30	
1,2,3-Trichloropropane	**31.4**	2.0	ppbv	40.0		78.6	70-130		30	
Surrogate: 4-Bromofluorobenzene	*21.9*		*ppbv*	*20.0*		*110*	*70-130*			
LCS Dup (B4G0826-BSD1)				Prepared & Analyzed: 07/05/24						
Acetone	**46.7**	21	ppbv	40.0		117	70-130	4.17	30	
Benzene	**40.1**	3.0	ppbv	40.0		100	70-130	4.67	30	
Benzyl chloride	**41.4**	9.7	ppbv	40.0		104	70-130	3.54	30	
Bromodichloromethane	**42.7**	7.5	ppbv	40.0		107	70-130	3.16	30	
Bromoform	**41.5**	4.8	ppbv	40.0		104	70-130	0.839	30	
Bromomethane	**42.7**	2.6	ppbv	40.0		107	70-130	5.44	30	
2-Butanone (MEK)	**42.0**	17	ppbv	40.0		105	70-130	6.42	30	
Carbon Disulfide	**39.8**	16	ppbv	40.0		99.6	70-130	3.45	30	
Carbon Tetrachloride	**42.1**	2.1	ppbv	40.0		105	70-130	3.61	30	
Chlorobenzene	**39.5**	2.2	ppbv	40.0		98.7	70-130	2.45	30	
Chloroethane	**44.6**	3.8	ppbv	40.0		112	70-130	4.04	30	
Chloroform	**43.8**	2.0	ppbv	40.0		110	70-130	4.48	30	
Chloromethane	**40.8**	4.8	ppbv	40.0		102	70-130	12.2	30	
Dibromochloromethane	**44.0**	2.3	ppbv	40.0		110	70-130	3.79	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
LCS Dup (B4G0826-BSD1) Continued				Prepared & Analyzed: 07/05/24						
1,2-Dibromoethane (EDB)	**40.2**	2.6	ppbv	40.0		101	70-130	0.874	30	
1,2-Dichlorobenzene	**37.6**	3.3	ppbv	40.0		94.0	70-130	2.86	30	
1,3-Dichlorobenzene	**39.6**	3.3	ppbv	40.0		98.9	70-130	1.73	30	
1,4-Dichlorobenzene	**38.5**	3.3	ppbv	40.0		96.2	70-130	1.32	30	
Dichlorodifluoromethane (R12)	**33.4**	10	ppbv	40.0		83.5	70-130	0.329	30	
1,1-Dichloroethane	**42.5**	2.0	ppbv	40.0		106	70-130	4.38	30	
1,2-Dichloroethane (EDC)	**48.8**	2.5	ppbv	40.0		122	70-130	2.37	30	
cis-1,2-Dichloroethylene	**44.8**	2.0	ppbv	40.0		112	70-130	4.89	30	
1,1-Dichloroethylene	**46.0**	2.0	ppbv	40.0		115	70-130	1.31	30	
trans-1,2-Dichloroethylene	**43.5**	2.0	ppbv	40.0		109	70-130	0.878	30	
1,2-Dichloropropane	**38.1**	2.2	ppbv	40.0		95.4	70-130	1.77	30	
trans-1,3-Dichloropropylene	**41.6**	2.2	ppbv	40.0		104	70-130	0.869	30	
cis-1,3-Dichloropropylene	**38.6**	2.2	ppbv	40.0		96.5	70-130	2.86	30	
Dichlorotetrafluoroethane	**44.2**	7.2	ppbv	40.0		110	70-130	4.59	30	
Ethylbenzene	**38.1**	2.3	ppbv	40.0		95.2	70-130	3.20	30	
4-Ethyltoluene	**41.4**	2.0	ppbv	40.0		103	70-130	2.15	30	
Hexachlorobutadiene	**36.7**	4.7	ppbv	40.0		91.7	70-130	3.40	30	
2-Hexanone (MBK)	**41.3**	12	ppbv	40.0		103	70-130	0.925	30	
Isopropanol (IPA)	**48.8**	41	ppbv	40.0		122	70-130	7.41	30	
Methylene Chloride	**43.2**	14	ppbv	40.0		108	70-130	1.92	30	
4-Methyl-2-pentanone (MIBK)	**39.1**	12	ppbv	40.0		97.7	70-130	0.797	30	
Styrene	**39.1**	2.3	ppbv	40.0		97.6	70-130	2.20	30	
1,1,2,2-Tetrachloroethane	**34.8**	7.3	ppbv	40.0		86.9	70-130	1.48	30	
Tetrachloroethylene (PCE)	**41.3**	2.0	ppbv	40.0		103	70-130	1.87	30	
Toluene	**38.2**	13	ppbv	40.0		95.6	70-130	2.15	30	
1,2,4-Trichlorobenzene	**34.3**	2.7	ppbv	40.0		85.7	70-130	1.91	30	
1,1,2-Trichloroethane	**39.5**	3.7	ppbv	40.0		98.8	70-130	1.83	30	
1,1,1-Trichloroethane	**45.3**	3.7	ppbv	40.0		113	70-130	2.78	30	
Trichloroethylene (TCE)	**40.0**	2.0	ppbv	40.0		100	70-130	5.31	30	
Trichlorofluoromethane (R11)	**43.7**	8.9	ppbv	40.0		109	70-130	1.85	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**42.3**	6.5	ppbv	40.0		106	70-130	3.66	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874661
Date Received: 07/03/24
Date Reported: 07/12/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4G0826 - *** DEFAULT PREP ****										
LCS Dup (B4G0826-BSD1) Continued				Prepared & Analyzed: 07/05/24						
1,3,5-Trimethylbenzene	**39.7**	2.0	ppbv	40.0		99.3	70-130	2.24	30	
1,2,4-Trimethylbenzene	**40.0**	2.0	ppbv	40.0		100	70-130	1.56	30	
Vinyl acetate	**42.8**	2.8	ppbv	40.0		107	70-130	3.59	30	
Vinyl chloride	**44.4**	3.9	ppbv	40.0		111	70-130	10.2	30	
o-Xylene	**38.0**	2.3	ppbv	40.0		95.1	70-130	2.65	30	
m,p-Xylenes	**78.5**	2.3	ppbv	80.0		98.1	70-130	4.15	30	
1,2,3-Trichloropropane	**30.4**	2.0	ppbv	40.0		75.9	70-130	3.46	30	
Surrogate: 4-Bromofluorobenzene	*21.2*		*ppbv*	*20.0*		*106*	*70-130*			
VOCs by EPA TO-3 GC/MS - Quality Control										
*Batch B4G0827 - *** DEFAULT PREP ****										
Blank (B4G0827-BLK1)				Prepared & Analyzed: 07/05/24						
TNMOC as Hexane	<1200	1200	ppbv							
Surrogate: 4-Bromofluorobenzene	*5.19*		*ppbv*	*5.00*		*104*	*70-130*			
LCS (B4G0827-BS1)				Prepared & Analyzed: 07/05/24						
GRO as Hexane	**237**	1200	ppbv	196		121	70-130		30	
Surrogate: 4-Bromofluorobenzene	*5.37*		*ppbv*	*5.00*		*107*	*70-130*			
LCS Dup (B4G0827-BSD1)				Prepared & Analyzed: 07/05/24						
GRO as Hexane	**237**	1200	ppbv	196		121	70-130	0.253	30	
Surrogate: 4-Bromofluorobenzene	*5.31*		*ppbv*	*5.00*		*106*	*70-130*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874661
Project No:	130072-024	**Date Received:**	07/03/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	07/12/24

Special Notes

[1] = ** : Result obtained from DF=10

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 28793
7 0036595
Page ___ of ___

Client: Haley & Aldrich	Project Name / No.: Cooper Downs	Sampler's Name: Riley Arlin	
Project Manager: Chris Isaacs	Site Address: 9313 Rayo Ave	Sampler's Signature:	
Phone: 714 371 1820	City: Southgate	P.O. No.:	
Fax:	State & Zip: CA 90280	Quote No.:	

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	8-15	10 3 Hex								Special Instructions
SWE-VGAC E-070324	14603013 -01	7/3/24	1055	V	1	2	5								
SWE-VGAC M-070324	-02	7/3/24	1100	V	1	2	5								
SWE-VGAC I-070324	-03	7/3/24	1104	V	1	5									
															'24 JUL 3 17:07

For Laboratory Use

PRIORITY ✓
RUSH: ___ SS: ___

A.A. Project No.: AS 14661/14603013

	Date	Time	
Relinquished by	07/03/24	1107	Received by
Relinquished by	7/3/24	17:02	Received by
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

August 19, 2024

Peter Bennett

Haley & Aldrich (Oakland)

1956 Webster St., Suite 450

Oakland, CA 94612

Re : Cooper Drum - South Gate / 130072-024

A874664 / 4H06019

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/06/24 17:10 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytics.

Sincerely,



Viorel Vasile

Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
TO-15 (Mid Level)ppbv					
SVE-VGACE-080624	4H06019-01	Vapor	10	08/06/24 09:39	08/06/24 17:10
SVE-VGACM-080624	4H06019-02	Vapor	10	08/06/24 09:36	08/06/24 17:10
SVE-VGACI-080624	4H06019-03	Vapor	10	08/06/24 09:34	08/06/24 17:10
TO-3 VOCs as Hexane					
SVE-VGACE-080624	4H06019-01	Vapor	10	08/06/24 09:39	08/06/24 17:10
SVE-VGACM-080624	4H06019-02	Vapor	10	08/06/24 09:36	08/06/24 17:10
SVE-VGACI-080624	4H06019-03	Vapor	10	08/06/24 09:34	08/06/24 17:10

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACE-080624

4H06019-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACE-080624

4H06019-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
cis-1,2-Dichloroethylene	**0.011**	ug/L	0.0079	**2.7**	ppbv	2.0
1,1-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
1,2-Dichloropropane	<0.010	ug/L	0.010	<2.2	ppbv	2.2
trans-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
cis-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
Dichlorotetrafluoroethane	<0.050	ug/L	0.050	<7.2	ppbv	7.2
1,4-Dioxane	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Ethylbenzene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
4-Ethyltoluene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Hexachlorobutadiene	<0.050	ug/L	0.050	<4.7	ppbv	4.7
2-Hexanone (MBK)	<0.049	ug/L	0.049	<12	ppbv	12
Isopropanol (IPA)	<0.10	ug/L	0.10	<41	ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Methylene Chloride	<0.049	ug/L	0.049	<14	ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049	ug/L	0.049	<12	ppbv	12
Styrene	<0.0098	ug/L	0.0098	<2.3	ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050	ug/L	0.050	<7.3	ppbv	7.3
Tetrachloroethylene (PCE)	<0.014	ug/L	0.014	<2.0	ppbv	2.0
Toluene	<0.049	ug/L	0.049	<13	ppbv	13
1,2,4-Trichlorobenzene	<0.020	ug/L	0.020	<2.7	ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACE-080624

4H06019-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	<0.011	ug/L	0.011	<2.0	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	103 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACM-080624

4H06019-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACM-080624

4H06019-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
cis-1,2-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
1,1-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079	ug/L	0.0079	<2.0	ppbv	2.0
1,2-Dichloropropane	<0.010	ug/L	0.010	<2.2	ppbv	2.2
trans-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
cis-1,3-Dichloropropylene	<0.01	ug/L	0.01	<2.2	ppbv	2.2
Dichlorotetrafluoroethane	<0.050	ug/L	0.050	<7.2	ppbv	7.2
1,4-Dioxane	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Ethylbenzene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
4-Ethyltoluene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Hexachlorobutadiene	<0.050	ug/L	0.050	<4.7	ppbv	4.7
2-Hexanone (MBK)	<0.049	ug/L	0.049	<12	ppbv	12
Isopropanol (IPA)	<0.10	ug/L	0.10	<41	ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010	ug/L	0.010	<2.8	ppbv	2.8
Methylene Chloride	<0.049	ug/L	0.049	<14	ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049	ug/L	0.049	<12	ppbv	12
Styrene	<0.0098	ug/L	0.0098	<2.3	ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050	ug/L	0.050	<7.3	ppbv	7.3
Tetrachloroethylene (PCE)	<0.014	ug/L	0.014	<2.0	ppbv	2.0
Toluene	<0.049	ug/L	0.049	<13	ppbv	13
1,2,4-Trichlorobenzene	<0.020	ug/L	0.020	<2.7	ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACM-080624

4H06019-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	<0.011	ug/L	0.011	<2.0	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	99.8 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACI-080624

4H06019-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
Acetone	<0.050	ug/L	0.050	<21	ppbv	21
Benzene	<0.0096	ug/L	0.0096	<3.0	ppbv	3.0
Benzyl chloride	<0.050	ug/L	0.050	<9.7	ppbv	9.7
Bromodichloromethane	<0.050	ug/L	0.050	<7.5	ppbv	7.5
Bromoform	<0.050	ug/L	0.050	<4.8	ppbv	4.8
Bromomethane	<0.010	ug/L	0.010	<2.6	ppbv	2.6
2-Butanone (MEK)	<0.050	ug/L	0.050	<17	ppbv	17
Carbon Disulfide	<0.050	ug/L	0.050	<16	ppbv	16
Carbon Tetrachloride	<0.013	ug/L	0.013	<2.1	ppbv	2.1
Chlorobenzene	<0.010	ug/L	0.010	<2.2	ppbv	2.2
Chloroethane	<0.010	ug/L	0.010	<3.8	ppbv	3.8
Chloroform	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Chloromethane	<0.0099	ug/L	0.0099	<4.8	ppbv	4.8
Dibromochloromethane	<0.020	ug/L	0.020	<2.3	ppbv	2.3
1,2-Dibromoethane (EDB)	<0.020	ug/L	0.020	<2.6	ppbv	2.6
1,2-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,3-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
1,4-Dichlorobenzene	<0.020	ug/L	0.020	<3.3	ppbv	3.3
Dichlorodifluoromethane (R12)	<0.049	ug/L	0.049	<10	ppbv	10
1,1-Dichloroethane	<0.0081	ug/L	0.0081	<2.0	ppbv	2.0
1,2-Dichloroethane (EDC)	<0.010	ug/L	0.010	<2.5	ppbv	2.5

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACI-080624

4H06019-03 (Vapor)

Analyte	Result		(ug/L)	MRL	Result		(ppbv)	MRL
cis-1,2-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
1,1-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
trans-1,2-Dichloroethylene	<0.0079		ug/L	0.0079	<2.0		ppbv	2.0
1,2-Dichloropropane	<0.010		ug/L	0.010	<2.2		ppbv	2.2
trans-1,3-Dichloropropylene	<0.01		ug/L	0.01	<2.2		ppbv	2.2
cis-1,3-Dichloropropylene	<0.01		ug/L	0.01	<2.2		ppbv	2.2
Dichlorotetrafluoroethane	<0.050		ug/L	0.050	<7.2		ppbv	7.2
1,4-Dioxane	<0.010		ug/L	0.010	<2.8		ppbv	2.8
Ethylbenzene	<0.01		ug/L	0.01	<2.3		ppbv	2.3
4-Ethyltoluene	<0.0098		ug/L	0.0098	<2.0		ppbv	2.0
Hexachlorobutadiene	<0.050		ug/L	0.050	<4.7		ppbv	4.7
2-Hexanone (MBK)	<0.049		ug/L	0.049	<12		ppbv	12
Isopropanol (IPA)	<0.10		ug/L	0.10	<41		ppbv	41
Methyl-tert-Butyl Ether (MTBE)	<0.010		ug/L	0.010	<2.8		ppbv	2.8
Methylene Chloride	<0.049		ug/L	0.049	<14		ppbv	14
4-Methyl-2-pentanone (MIBK)	<0.049		ug/L	0.049	<12		ppbv	12
Styrene	<0.0098		ug/L	0.0098	<2.3		ppbv	2.3
1,1,2,2-Tetrachloroethane	<0.050		ug/L	0.050	<7.3		ppbv	7.3
Tetrachloroethylene (PCE)	**1.2**	**	ug/L	0.014	**180**	**	ppbv	2.0
Toluene	<0.049		ug/L	0.049	<13		ppbv	13
1,2,4-Trichlorobenzene	<0.020		ug/L	0.020	<2.7		ppbv	2.7

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Matrix:	Vapor	**Sampled:**	08/06/24
Dilution:	1	**Prepared:**	08/06/24
Method:	VOCs by GCMS EPA TO-15	**Analyzed:**	08/07/24

SVE-VGACI-080624

4H06019-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppbv)	MRL
1,1,2-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
1,1,1-Trichloroethane	<0.020	ug/L	0.020	<3.7	ppbv	3.7
Trichloroethylene (TCE)	**0.022**	ug/L	0.011	**4.1**	ppbv	2.0
Trichlorofluoromethane (R11)	<0.050	ug/L	0.050	<8.9	ppbv	8.9
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.050	ug/L	0.050	<6.5	ppbv	6.5
1,3,5-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
1,2,4-Trimethylbenzene	<0.0098	ug/L	0.0098	<2.0	ppbv	2.0
Vinyl acetate	<0.0099	ug/L	0.0099	<2.8	ppbv	2.8
Vinyl chloride	<0.01	ug/L	0.01	<3.9	ppbv	3.9
o-Xylene	<0.01	ug/L	0.01	<2.3	ppbv	2.3
m,p-Xylenes	<0.01	ug/L	0.01	<2.3	ppbv	2.3
1,2,3-Trichloropropane	<0.012	ug/L	0.012	<2.0	ppbv	2.0

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	100 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24
Method:	VOCs by EPA TO-3 GC/MS	**Units:**	ppbv

Date Sampled:	08/06/ 0	08/06/ 0	08/06/ 0	
Date Prepared:	08/07/24	08/07/24	08/07/24	
Date Analyzed:	08/07/24	08/07/24	08/07/24	
AA ID No:	4H06019-01	4H06019-02	4H06019-03	
Client ID No:	SVE-VGACE-080624	SVE-VGACM-080624	SVE-VGACI-080624	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL
TO-3 VOCs as Hexane (TO-3)				
TNMOC as Hexane	<1200	<1200	**1600**	1200
Surrogates				**%REC Limits**
4-Bromofluorobenzene	118%	114%	114%	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
Blank (B4H1438-BLK1)				Prepared & Analyzed: 08/07/24						
Acetone	<21	21	ppbv							
Benzene	<3.0	3.0	ppbv							
Benzyl chloride	<9.7	9.7	ppbv							
Bromodichloromethane	<7.5	7.5	ppbv							
Bromoform	<4.8	4.8	ppbv							
Bromomethane	<2.6	2.6	ppbv							
2-Butanone (MEK)	<17	17	ppbv							
Carbon Disulfide	<16	16	ppbv							
Carbon Tetrachloride	<2.1	2.1	ppbv							
Chlorobenzene	<2.2	2.2	ppbv							
Chloroethane	<3.8	3.8	ppbv							
Chloroform	<2.0	2.0	ppbv							
Chloromethane	<4.8	4.8	ppbv							
Dibromochloromethane	<2.3	2.3	ppbv							
1,2-Dibromoethane (EDB)	<2.6	2.6	ppbv							
1,2-Dichlorobenzene	<3.3	3.3	ppbv							
1,3-Dichlorobenzene	<3.3	3.3	ppbv							
1,4-Dichlorobenzene	<3.3	3.3	ppbv							
Dichlorodifluoromethane (R12)	<10	10	ppbv							
1,1-Dichloroethane	<2.0	2.0	ppbv							
1,2-Dichloroethane (EDC)	<2.5	2.5	ppbv							
cis-1,2-Dichloroethylene	<2.0	2.0	ppbv							
1,1-Dichloroethylene	<2.0	2.0	ppbv							
trans-1,2-Dichloroethylene	<2.0	2.0	ppbv							
1,2-Dichloropropane	<2.2	2.2	ppbv							
trans-1,3-Dichloropropylene	<2.2	2.2	ppbv							
cis-1,3-Dichloropropylene	<2.2	2.2	ppbv							
Dichlorotetrafluoroethane	<7.2	7.2	ppbv							
1,4-Dioxane	<2.8	2.8	ppbv							
Ethylbenzene	<2.3	2.3	ppbv							
4-Ethyltoluene	<2.0	2.0	ppbv							
Hexachlorobutadiene	<4.7	4.7	ppbv							

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
Blank (B4H1438-BLK1) Continued				Prepared & Analyzed: 08/07/24						
2-Hexanone (MBK)	<12	12	ppbv							
Isopropanol (IPA)	<41	41	ppbv							
Methyl-tert-Butyl Ether (MTBE)	<2.8	2.8	ppbv							
Methylene Chloride	<14	14	ppbv							
4-Methyl-2-pentanone (MIBK)	<12	12	ppbv							
Styrene	<2.3	2.3	ppbv							
1,1,2,2-Tetrachloroethane	<7.3	7.3	ppbv							
Tetrachloroethylene (PCE)	<2.0	2.0	ppbv							
Toluene	<13	13	ppbv							
1,2,4-Trichlorobenzene	<2.7	2.7	ppbv							
1,1,2-Trichloroethane	<3.7	3.7	ppbv							
1,1,1-Trichloroethane	<3.7	3.7	ppbv							
Trichloroethylene (TCE)	<2.0	2.0	ppbv							
Trichlorofluoromethane (R11)	<8.9	8.9	ppbv							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<6.5	6.5	ppbv							
1,3,5-Trimethylbenzene	<2.0	2.0	ppbv							
1,2,4-Trimethylbenzene	<2.0	2.0	ppbv							
Vinyl acetate	<2.8	2.8	ppbv							
Vinyl chloride	<3.9	3.9	ppbv							
o-Xylene	<2.3	2.3	ppbv							
m,p-Xylenes	<2.3	2.3	ppbv							
1,2,3-Trichloropropane	<2.0	2.0	ppbv							
Surrogate: 4-Bromofluorobenzene	*18.8*		*ppbv*	*20.0*		*94.1*	*70-130*			
LCS (B4H1438-BS1)				Prepared & Analyzed: 08/07/24						
Acetone	**39.5**	21	ppbv	40.0		98.7	70-130		30	
Benzene	**34.8**	3.0	ppbv	40.0		87.0	70-130		30	
Benzyl chloride	**45.6**	9.7	ppbv	40.0		114	70-130		30	
Bromodichloromethane	**39.0**	7.5	ppbv	40.0		97.5	70-130		30	
Bromoform	**40.3**	4.8	ppbv	40.0		101	70-130		30	
Bromomethane	**43.0**	2.6	ppbv	40.0		107	70-130		30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
LCS (B4H1438-BS1) Continued				Prepared & Analyzed: 08/07/24						
2-Butanone (MEK)	**37.0**	17	ppbv	40.0		92.5	70-130		30	
Carbon Disulfide	**35.5**	16	ppbv	40.0		88.7	70-130		30	
Carbon Tetrachloride	**39.4**	2.1	ppbv	40.0		98.4	70-130		30	
Chlorobenzene	**37.8**	2.2	ppbv	40.0		94.6	70-130		30	
Chloroethane	**44.2**	3.8	ppbv	40.0		110	70-130		30	
Chloroform	**37.9**	2.0	ppbv	40.0		94.7	70-130		30	
Chloromethane	**52.0**	4.8	ppbv	40.0		130	70-130		30	
Dibromochloromethane	**40.6**	2.3	ppbv	40.0		101	70-130		30	
1,2-Dibromoethane (EDB)	**39.2**	2.6	ppbv	40.0		97.9	70-130		30	
1,2-Dichlorobenzene	**45.9**	3.3	ppbv	40.0		115	70-130		30	
1,3-Dichlorobenzene	**45.3**	3.3	ppbv	40.0		113	70-130		30	
1,4-Dichlorobenzene	**43.3**	3.3	ppbv	40.0		108	70-130		30	
Dichlorodifluoromethane (R12)	**32.4**	10	ppbv	40.0		81.0	70-130		30	
1,1-Dichloroethane	**36.2**	2.0	ppbv	40.0		90.4	70-130		30	
1,2-Dichloroethane (EDC)	**39.5**	2.5	ppbv	40.0		98.8	70-130		30	
cis-1,2-Dichloroethylene	**38.7**	2.0	ppbv	40.0		96.6	70-130		30	
1,1-Dichloroethylene	**40.7**	2.0	ppbv	40.0		102	70-130		30	
trans-1,2-Dichloroethylene	**35.9**	2.0	ppbv	40.0		89.7	70-130		30	
1,2-Dichloropropane	**35.1**	2.2	ppbv	40.0		87.7	70-130		30	
trans-1,3-Dichloropropylene	**39.5**	2.2	ppbv	40.0		98.8	70-130		30	
cis-1,3-Dichloropropylene	**39.0**	2.2	ppbv	40.0		97.5	70-130		30	
Dichlorotetrafluoroethane	**43.2**	7.2	ppbv	40.0		108	70-130		30	
Ethylbenzene	**39.4**	2.3	ppbv	40.0		98.6	70-130		30	
4-Ethyltoluene	**41.0**	2.0	ppbv	40.0		102	70-130		30	
Hexachlorobutadiene	**54.6**	4.7	ppbv	40.0		137	70-130		30	QL-06
2-Hexanone (MBK)	**40.3**	12	ppbv	40.0		101	70-130		30	
Isopropanol (IPA)	**38.8**	41	ppbv	40.0		97.0	70-130		30	
Methylene Chloride	**42.1**	14	ppbv	40.0		105	70-130		30	
4-Methyl-2-pentanone (MIBK)	**38.4**	12	ppbv	40.0		96.0	70-130		30	
Styrene	**40.5**	2.3	ppbv	40.0		101	70-130		30	
1,1,2,2-Tetrachloroethane	**40.0**	7.3	ppbv	40.0		100	70-130		30	
Tetrachloroethylene (PCE)	**38.4**	2.0	ppbv	40.0		96.0	70-130		30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
LCS (B4H1438-BS1) Continued				Prepared & Analyzed: 08/07/24						
Toluene	**37.4**	13	ppbv	40.0		93.5	70-130		30	
1,2,4-Trichlorobenzene	**58.8**	2.7	ppbv	40.0		147	70-130		30	QL-06
1,1,2-Trichloroethane	**38.2**	3.7	ppbv	40.0		95.6	70-130		30	
1,1,1-Trichloroethane	**38.6**	3.7	ppbv	40.0		96.4	70-130		30	
Trichloroethylene (TCE)	**36.8**	2.0	ppbv	40.0		92.1	70-130		30	
Trichlorofluoromethane (R11)	**38.3**	8.9	ppbv	40.0		95.7	70-130		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**37.2**	6.5	ppbv	40.0		92.9	70-130		30	
1,3,5-Trimethylbenzene	**43.2**	2.0	ppbv	40.0		108	70-130		30	
1,2,4-Trimethylbenzene	**44.6**	2.0	ppbv	40.0		112	70-130		30	
Vinyl acetate	**39.6**	2.8	ppbv	40.0		99.1	70-130		30	
Vinyl chloride	**44.3**	3.9	ppbv	40.0		111	70-130		30	
o-Xylene	**40.0**	2.3	ppbv	40.0		100	70-130		30	
m,p-Xylenes	**83.1**	2.3	ppbv	80.0		104	70-130		30	
1,2,3-Trichloropropane	**45.5**	2.0	ppbv	40.0		114	70-130		30	
Surrogate: 4-Bromofluorobenzene	*20.0*		*ppbv*	*20.0*		*99.8*	*70-130*			
LCS Dup (B4H1438-BSD1)				Prepared & Analyzed: 08/07/24						
Acetone	**40.0**	21	ppbv	40.0		99.9	70-130	1.21	30	
Benzene	**36.5**	3.0	ppbv	40.0		91.2	70-130	4.71	30	
Benzyl chloride	**46.8**	9.7	ppbv	40.0		117	70-130	2.62	30	
Bromodichloromethane	**39.2**	7.5	ppbv	40.0		98.1	70-130	0.665	30	
Bromoform	**42.0**	4.8	ppbv	40.0		105	70-130	4.18	30	
Bromomethane	**44.2**	2.6	ppbv	40.0		111	70-130	2.96	30	
2-Butanone (MEK)	**38.5**	17	ppbv	40.0		96.2	70-130	3.84	30	
Carbon Disulfide	**36.9**	16	ppbv	40.0		92.2	70-130	3.84	30	
Carbon Tetrachloride	**38.7**	2.1	ppbv	40.0		96.8	70-130	1.64	30	
Chlorobenzene	**40.7**	2.2	ppbv	40.0		102	70-130	7.21	30	
Chloroethane	**45.9**	3.8	ppbv	40.0		115	70-130	3.84	30	
Chloroform	**38.8**	2.0	ppbv	40.0		97.1	70-130	2.50	30	
Chloromethane	**52.7**	4.8	ppbv	40.0		132	70-130	1.18	30	QL-03
Dibromochloromethane	**40.7**	2.3	ppbv	40.0		102	70-130	0.222	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
LCS Dup (B4H1438-BSD1) Continued				Prepared & Analyzed: 08/07/24						
1,2-Dibromoethane (EDB)	**38.8**	2.6	ppbv	40.0		97.0	70-130	0.872	30	
1,2-Dichlorobenzene	**48.3**	3.3	ppbv	40.0		121	70-130	4.99	30	
1,3-Dichlorobenzene	**45.6**	3.3	ppbv	40.0		114	70-130	0.506	30	
1,4-Dichlorobenzene	**48.5**	3.3	ppbv	40.0		121	70-130	11.3	30	
Dichlorodifluoromethane (R12)	**30.9**	10	ppbv	40.0		77.3	70-130	4.68	30	
1,1-Dichloroethane	**37.2**	2.0	ppbv	40.0		93.0	70-130	2.81	30	
1,2-Dichloroethane (EDC)	**39.9**	2.5	ppbv	40.0		99.8	70-130	1.08	30	
cis-1,2-Dichloroethylene	**38.6**	2.0	ppbv	40.0		96.5	70-130	0.181	30	
1,1-Dichloroethylene	**40.6**	2.0	ppbv	40.0		102	70-130	0.123	30	
trans-1,2-Dichloroethylene	**35.9**	2.0	ppbv	40.0		89.7	70-130	0.0279	30	
1,2-Dichloropropane	**36.6**	2.2	ppbv	40.0		91.6	70-130	4.41	30	
trans-1,3-Dichloropropylene	**40.6**	2.2	ppbv	40.0		102	70-130	2.74	30	
cis-1,3-Dichloropropylene	**40.0**	2.2	ppbv	40.0		100	70-130	2.63	30	
Dichlorotetrafluoroethane	**44.9**	7.2	ppbv	40.0		112	70-130	3.95	30	
Ethylbenzene	**41.2**	2.3	ppbv	40.0		103	70-130	4.54	30	
4-Ethyltoluene	**42.9**	2.0	ppbv	40.0		107	70-130	4.60	30	
Hexachlorobutadiene	**58.1**	4.7	ppbv	40.0		145	70-130	6.23	30	QL-06
2-Hexanone (MBK)	**40.0**	12	ppbv	40.0		100	70-130	0.647	30	
Isopropanol (IPA)	**40.6**	41	ppbv	40.0		102	70-130	4.56	30	
Methylene Chloride	**42.9**	14	ppbv	40.0		107	70-130	1.93	30	
4-Methyl-2-pentanone (MIBK)	**38.7**	12	ppbv	40.0		96.8	70-130	0.830	30	
Styrene	**42.8**	2.3	ppbv	40.0		107	70-130	5.59	30	
1,1,2,2-Tetrachloroethane	**42.2**	7.3	ppbv	40.0		105	70-130	5.28	30	
Tetrachloroethylene (PCE)	**39.2**	2.0	ppbv	40.0		98.0	70-130	2.11	30	
Toluene	**37.2**	13	ppbv	40.0		93.0	70-130	0.563	30	
1,2,4-Trichlorobenzene	**63.0**	2.7	ppbv	40.0		157	70-130	6.77	30	QL-06
1,1,2-Trichloroethane	**38.8**	3.7	ppbv	40.0		96.9	70-130	1.40	30	
1,1,1-Trichloroethane	**38.6**	3.7	ppbv	40.0		96.5	70-130	0.104	30	
Trichloroethylene (TCE)	**38.1**	2.0	ppbv	40.0		95.4	70-130	3.47	30	
Trichlorofluoromethane (R11)	**38.0**	8.9	ppbv	40.0		95.0	70-130	0.655	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	**37.0**	6.5	ppbv	40.0		92.5	70-130	0.459	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client: Haley & Aldrich (Oakland)
Project No: 130072-024
Project Name: Cooper Drum - South Gate

AA Project No: A874664
Date Received: 08/06/24
Date Reported: 08/19/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs by GCMS EPA TO-15 - Quality Control										
*Batch B4H1438 - *** DEFAULT PREP ****										
LCS Dup (B4H1438-BSD1) Continued				Prepared & Analyzed: 08/07/24						
1,3,5-Trimethylbenzene	**44.8**	2.0	ppbv	40.0		112	70-130	3.50	30	
1,2,4-Trimethylbenzene	**45.7**	2.0	ppbv	40.0		114	70-130	2.30	30	
Vinyl acetate	**39.8**	2.8	ppbv	40.0		99.4	70-130	0.302	30	
Vinyl chloride	**46.0**	3.9	ppbv	40.0		115	70-130	3.63	30	
o-Xylene	**42.6**	2.3	ppbv	40.0		106	70-130	6.17	30	
m,p-Xylenes	**87.6**	2.3	ppbv	80.0		109	70-130	5.24	30	
1,2,3-Trichloropropane	**47.7**	2.0	ppbv	40.0		119	70-130	4.70	30	
Surrogate: 4-Bromofluorobenzene	*19.9*		*ppbv*	*20.0*		*99.4*	*70-130*			
VOCs by EPA TO-3 GC/MS - Quality Control										
*Batch B4H1439 - *** DEFAULT PREP ****										
Blank (B4H1439-BLK1)				Prepared & Analyzed: 08/07/24						
TNMOC as Hexane	<1200	1200	ppbv							
Surrogate: 4-Bromofluorobenzene	*5.38*		*ppbv*	*5.00*		*108*	*70-130*			
LCS (B4H1439-BS1)				Prepared & Analyzed: 08/07/24						
GRO as Hexane	**218**	1200	ppbv	196		111	70-130		30	
Surrogate: 4-Bromofluorobenzene	*5.57*		*ppbv*	*5.00*		*111*	*70-130*			
LCS Dup (B4H1439-BSD1)				Prepared & Analyzed: 08/07/24						
GRO as Hexane	**214**	1200	ppbv	196		109	70-130	1.68	30	
Surrogate: 4-Bromofluorobenzene	*5.54*		*ppbv*	*5.00*		*111*	*70-130*			

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	Haley & Aldrich (Oakland)	**AA Project No:**	A874664
Project No:	130072-024	**Date Received:**	08/06/24
Project Name:	Cooper Drum - South Gate	**Date Reported:**	08/19/24

Special Notes

[1] = ****** : Result obtained from DF=10

[2] = **QL-03** : The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.

[3] = **QL-06** : The recovery for this analyte in the LCS and LCSD is marginally above the upper control limit, therefore the reported concentration for this analyte may be biased high.

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 28977
70037109
Page 1 of 1

Client: Haley & Aldrich	Project Name / No.: Cooper Drum	Sampler's Name: Riley Arthur	
Project Manager: Chris Tsiatsios	Site Address: 9313 RAYO AVE	Sampler's Signature:	
Phone: 714-371-1820	City: South Gate	P.O. No.:	
Fax:	State & Zip: CA 90280	Quote No.:	

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	TO-15	TO-3 HEX	Special Instructions
SVE-VGACE-080624	24H0601901	8/6/24	0939	V	1	X	X	
SVE-VGACM-080624	-02	8/6/24	0936	V	1	X	X	
SVE-VGAC1-080624	-03	8/6/24	0934	V	1	X	X	

24 AUG 6 5:10PM

For Laboratory Use

PRIORITY
RUSH ___ STD ✓

A.A. Project No.: A8724611 / 24H0601901

Relinquished by	Date	Time	Received by
Riley Arthur	8/6/24	1657	
Relinquished by	Date	Time	Received by
	8/6/24	5:10	
Relinquished by	Date	Time	Received by

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

APPENDIX F
Data Usability Summary Reports

Data Usability Summary Report

Project Name: Cooper Drum Company Superfund Site

Project Description: Groundwater Samples

Sample Date(s): 19 through 25 November 2024

Analytical Laboratory: American Analytics, Chatsworth, CA

Validation Performed by: Gabrielle Davis

Validation Reviewed by: Katherine Miller

Validation Date: 15 January 2025

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

1. **Level II – Sample Delivery Group Numbers**
2. **Level IV – Sample Delivery Group Number A874675**
3. **Explanations**
4. **Glossary**
5. **Abbreviations**
6. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.
- The project-specific Sampling Analysis Plan (SAP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Level II – Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number(s):

- A874670, dated 18 December 2024;
- A874672, dated 18 December 2024;
- A874673, dated 18 December 2024; and
- A874674, dated 18 December 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Samples for SRL524M analysis were subcontracted to Weck Laboratories, Inc. – Industry, California.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the samples listed in Table 1. Method holding times are listed in Table 2.

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTION

RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific SAP. All sample dilutions were reviewed and found to be justified. Only detected analytes were reported from a sample dilution analysis:

- The RLs for 1,2,3-trichloropropane in samples EW-04-112024, EW-A-112024, and MW-62A-112024 were raised due to matrix interference.

1.4 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits, with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
SW8270C	QC03-111924	4K20017-03	1,4-dioxane-d8	1x	155%	J+/None target compounds*
SW8270C	MW-23B-112024	4K21023-21	1,4-dioxane-d8	1x	153%	

** Compounds targeted by 1,4-dioxane-d8: None, samples are non-detect (ND)*

1.5 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits with the exceptions listed in Table 3.

1.6 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
4K20017-09	MW-50-111924	SW8270C, SW8260B
4K21089-08		SRL524M
4K21023-02	EW-A-112024	SW8270C, SW8260B
4K22040-01		SRL524M
4K22003-05	MW-31B-112124	SW8270C, SW8260B
4K25038-04		SRL524M
4K25018-06	MW-01-112224	SW8270C, SW8260B
4K26050-06		SRL524M

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	SW8260B	MW-50-111924	cis-1,2-Dichloroethylene	NR/4.0%	NA	None, sample result >4x spike
MS			1,2,4-Trichlorobenzene	78.3%	J/UJ	4K20017-09
MS/MSD		MW-31B-112124	cis-1,2-Dichloroethylene	46.4%/56.2%		4K22003-05
			Vinyl chloride	26.6%/48.1%		
MSD	SRL524M		1,2,3-Trichloropropane	121%	J/None	4K25038-04
MS/MSD	SW8260B	MW-01-112224	Styrene	36.6%/39.7%	J/UJ	4K25018-06

1.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

Blank Type	SDG	Batch ID	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
Method Blank	A874670	B4K2530	Carbon Disulfide	0.370 J	RL U	4K20017-02, -04, -07, -08, -12, -13
					Result U	4K20017-03
	A874672	B4K2705		0.280 J	RL U	4K21023-01, -03, -10, -12 through -15
					Result U	4K21023-11

Note: *µg/L = micrograms per liter*

The analysis of the blank samples for field quality control had no detections, indicating that no contamination from field activities occurred, with the following exceptions:

Blank Type	Date of Blank	SDG	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
TB	11/19/2024	A874670	Carbon disulfide	0.95	RL U	4K20017-10
					Result U	4K20017-15, -21
TB	11/19/2024		Naphthalene	0.40 J	NA	None, samples are ND
EB	11/19/2024		Tetrachloroethene	0.50		
EB	11/20/2024	A874672	Carbon disulfide	0.51		None, qualified ND due to MB contamination
TB	11/20/2024		Carbon disulfide	0.40 J		
TB	11/21/2024	A874673	Carbon disulfide	3.5	RL U	4K22003-05, -07, -09, -11, -14, -17, -20
					Result U	4K22003-04, -06, -10, -13, -16, -19
EB	11/21/2024		Carbon disulfide	0.86	NA	None, qualified ND due to TB contamination
EB	11/21/2024		Carbon disulfide	1.1		
TB	11/25/2024	A874674	Carbon disulfide*	0.52	RL U	4K25018-02, -04, -13
					Result U	4K25018-01, -10, -14
					J+	4K25018-08, -09, -11, -12
FB	11/22/2024		Acetone*	19 J	RL U	4K25018-09
FB	11/22/2024		Carbon disulfide*	1.4		4K25018-13
					Result U	4K25018-09, -10, -14
					J+	4K25018-11, -12

Blank Type	Date of Blank	SDG	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
EB	11/22/2024	A874674	Toluene*	0.21 J	NA	None, samples are ND
EB	11/22/2024		Acetone*	12 J		None, qualified ND due to field blank (FB) contamination
EB	11/22/2024		Carbon disulfide*	1.4		
EB	11/22/2024		Carbon disulfide*	0.30 J		None, qualified ND due to trip blank (TB) contamination

**Contamination also applies to SDG A874675. Refer to Section 2 for qualifications.*

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. No client samples were used for laboratory duplicate analysis.

The following sample(s) were used for field duplicate analysis. RPDs were all below 30 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Method(s)
MW-37-111924	QC02-111924	SRL524M, SW8260B, RSK175, SW8270C
MW-55R-111924	QC03-111924	SRL524M, SW8260B, SW8270C
MW-04B-111924	QC04-111924	SRL524M, SW8260B, RSK175, SW8270C
EW-07B-112024	QC08-112024	SRL524M, SW8260B, SW8270C
MW-23-112024	QC09-112024	
MW-64A-112124	QC15-112124	

Field Duplicate RPD Calculations:

Method	Analyte (µg/L)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
		MW-04B-111924	QC04-111924		
SW8260B	Carbon disulfide	1.1*	0.21*	NA	None, Both ND
RSK175	Methane	74	41	57	J/UJ, RPD>30
Method	**Analyte (µg/L)**	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Qualification**
		MW-23-112024	QC09-112024		
SW8260B	Trichloroethene	2.1	2.6	NA	J/UJ, Abs. Diff. > RL
Method	**Analyte (µg/L)**	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Qualification**
		MW-37-111924	QC02-111924		
SW8270C	1,4-Dioxane	ND	2	NA	J/UJ, Abs. Diff. > RL
SW8260B	cis-1,2-Dichloroethene	2	1.4	NA	J/UJ, Abs. Diff. > RL
RSK175	Methane	39	14	94	J/UJ, RPD>30
Method	**Analyte (µg/L)**	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Qualification**
		MW-64A-112124	QC15-112124		
SW8260B	Carbon disulfide	0.88*	0.21*	NA	None, Both ND

**Qualified ND due to method blank or trip blank contamination.*

1.9 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. A summary of qualifiers applied to this dataset is shown in Table 4.

2. Level IV – Sample Delivery Group Number A874675

2.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number A874675, dated 18 December 2024.

Samples were collected, preserved, and shipped following standard COC protocols.

- Samples for SRL524M analysis were subcontracted to Weck Laboratories, Inc. – Industry, California.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the following samples:

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
QC19-112224	FD	A874675	4K25019-01	11/22/2024	WG	A, B
MW-19-112224	N		4K25019-02	11/22/2024	WG	A, B
MW-25-112224	N		4K25019-03	11/22/2024	WG	A, B, C
MW-29A-112224	N		4K25019-04	11/22/2024	WG	A, B
MW-57B-112224	N		4K25019-05	11/22/2024	WG	A, B
MW-59B-112224	N		4K25019-06	11/22/2024	WG	A, B
MW-61A-112224	N		4K25019-07	11/22/2024	WG	A, B
QC19-112224	FD		4K26051-01	11/22/2024	WG	D
MW-19-112224	N		4K26051-02	11/22/2024	WG	D
MW-25-112224	N		4K26051-03	11/22/2024	WG	D
MW-29A-112224	N		4K26051-04	11/22/2024	WG	D
MW-57B-112224	N		4K26051-05	11/22/2024	WG	D
MW-59B-112224	N		4K26051-06	11/22/2024	WG	D
MW-61A-112224	N		4K26051-07	11/22/2024	WG	D

Method Holding Times			
A.	SW8260B	Volatile Organic Compounds (VOCs)	14 days for liquid, preserved
B.	SW8270C	1,4-Dioxane	7 days extraction / 40 days analysis for liquid, unpreserved
C.	RSK175	Dissolved Gases (Methane, Ethane, Ethene)	14 days for liquid, preserved
D.	SRL524M	1,2,3-Trichloropropane	14 days for liquid, preserved

2.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

2.3 REPORTING LIMITS AND SAMPLE DILUTIONS

RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific SAP. No sample dilutions were performed for the analysis of the samples in this report.

2.4 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The %R for each surrogate compound added to each project sample were determined to be within the laboratory-specified QC limits.

2.5 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the LCS/LCSD analyses associated with client samples exhibited recoveries and RPDs within the specified limits.

2.6 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for MS/MSD:

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
4K25019-07	MW-61A-112224	SW8260B

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MSD	SW8260B	MW-61A-112224	Acetone	RPD = 38.6	J/None	None, samples are ND
			Naphthalene	134%		4K25019-07

2.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

The analysis of the blank samples for field quality control had no detections, indicating that no contamination from field activities occurred, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
TB	11/25/2024	Carbon disulfide*	0.52	RL U	4K25019-01, -07
				Result U	4K25019-02, -03, -04
FB	11/22/2024	Acetone*	19 J	NA	None, samples are ND
FB	11/22/2024	Carbon disulfide*	1.4	RL U	4K25019-01
				Result U	4K25019-03, -04
EB	11/22/2024	Toluene*	0.21 J	NA	None, samples are ND
EB	11/22/2024	Acetone*	12 J		None, qualified ND due to FB contamination
EB	11/22/2024	Carbon disulfide*	1.4		
EB	11/22/2024	Carbon disulfide*	0.30 J		None, qualified ND due to TB contamination

2.8 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. No client samples were used for laboratory duplicate analysis.

The following sample(s) were used for field duplicate analysis. RPDs were all below 30 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

Primary Sample ID	Duplicate Sample ID	Method(s)
MW-29A-112224	QC19-112224	SRL524M, SW8260B, SW8270C

2.9 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

2.10 GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECKS

Refer to Section E 1.17. Ion abundance criteria were within the specified limits. No tune was included in the Level IV data package for method SRL524M. No qualification of the reported results is recommended.

2.11 INITIAL CALIBRATION

Refer to Section E 1.20. Proper concentrations for standards were used for the instruments and Relative Response Factors (RRFs), Percent Relative Standard Deviation (%RSD), and/or R^2 values were within the specified limits, with the following exceptions:

Instrument	Analyte	RRF/%RSD	Action
GC/MS Ins	Vinyl Chloride	RSD = 26.50	Qualify data J/UJ. 4K25019-01 through -07
	Carbon Disulfide	RSD = 23.26	

2.12 INITIAL AND CONTINUING CALIBRATION VERIFICATION

Refer to Section E 1.21. RRFs and the Percent Difference (%D) were within the specified limits with the following exceptions:

Type	Instrument	Date	Time	Analyte	%D/RRF	Action
CCV	GC/MS Ins	12/6/24	10:36	Dichlorodifluoromethane	40.8%	Qualify data J/UJ. 4K25019-01 through -07
				Acetone	22.0%	No action. Within NFG limits.
		12/6/24	20:33	Dichlorodifluoromethane	33.5%	
				Ethanol	-35.5%	No action. Not a target compound.
				Acetone	-25.6%	No action. Within NFG limits.

2.13 INTERNAL STANDARDS

Refer to Section E 1.22. Area response and retention time were reviewed and found to be within the specified limits.

2.14 TARGET ANALYTE IDENTIFICATION

A review of a portion of the sample chromatographs and retention times for organic compounds indicated no problems with target compound identification.

2.15 SAMPLE RESULT VERIFICATION

A portion of the sample results were tracked through the relevant sample preparation steps, raw data outputs, transcriptions, conversions and/or calculations and have been confirmed to be accurate and representative of the sample conditions.

2.16 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. A summary of qualifiers applied to this dataset is shown in Table 4.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
  - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
  - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
  - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
  - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

- E 1.17 Gas Chromatograph/Mass Spectrometer Instrument Performance Checks
  - When analyzing organic compounds, the instrument performance check solution known as Bromofluorobenzene for volatiles or Decafluorotriphenylphosphine for semi-volatiles is run every 12 hours to ensure adequate mass resolution, identification, and sensitivity, and to document this level of performance prior to analyzing any sequence of standards or samples.
- E 1.20 Initial Calibration
  - Organic methods require an initial calibration to ensure the instrument is capable of producing acceptable qualitative and quantitative data. Standards of varying concentrations are run to create a calibration curve, which is then used to ensure the validity of compound quantitation.
  - The curve must have a correlation coefficient of greater than or equal to 0.995 and the calculated %D for all non-zero standards must be within ±30 percent of the true value.
- E 1.21 Initial and Continuing Calibration Verification
  - Organic methods require an additional initial calibration verification (ICV) and continuing calibration verification (CCV) to ensure that the instrument continues to meet the sensitivity and linearity criteria to produce acceptable qualitative and quantitative data throughout each analytical sequence. CCVs must be run at the beginning and end of every 12-hour period of operation.
- E 1.22 Internal Standards
  - Internal standards are compounds added to each sample by the laboratory prior to volatile sample analysis to ensure that instrument sensitivity and response are stable during each analysis.

4. Glossary

*Analyte names may be abbreviated for simplicity. Please reference the laboratory report for the full analyte name.
Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
  - pg/L picograms per liter
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - ST Solid Waste
  - WQ Water Quality control matrix
  - WS Surface Water
  - WW Waste Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius

- ± plus or minus
- ~ approximately
- x times (multiplier)

- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

5. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

6. Qualifiers

The qualifiers below are from the USEPA NFG and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E The compound was quantitated above the calibration range.

  D The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ The result is an estimated quantity, but the result may be biased high.

  J- The result is an estimated quantity, but the result may be biased low.

  J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ The compound was not detected. The reported sample quantitation limit is approximate.

  NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S Result is suspect. See DUSR for details.

References

1. AMEC Geomatrix, Inc., 2011. Sampling and Analysis Plan for Groundwater Sampling, Field Sampling Plan and Quality Assurance Project Plan. 6 April.
2. United States Environmental Protection Agency, 2017. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-2017-002. January.

Attachments:

Table 1 – Sample Management
Table 2 – Method Holding Times
Table 3 – LCS/LCSD
Table 4 – System Performance Summary

TABLES

TABLE 1
SAMPLE MANAGEMENT
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
QC01-111924	TB	A874670	4K20017-01	11/19/2024	WQ	B
QC02-111924	FD		4K20017-02	11/19/2024	WG	B, C, D
QC03-111924	FD		4K20017-03	11/19/2024	WG	B, D
QC04-111924	FD		4K20017-04	11/19/2024	WG	B, C, D
QC05-111924	EB		4K20017-05	11/19/2024	WQ	B, D
QC06-111924	EB		4K20017-06	11/19/2024	WQ	B, D
MW-37-111924	N		4K20017-07	11/19/2024	WG	B, C, D
MW-36-111924	N		4K20017-08	11/19/2024	WG	B, D
MW-50-111924	N		4K20017-09	11/19/2024	WG	B, D
MW-51-111924	N		4K20017-10	11/19/2024	WG	B, C, D
MW-4-111924	N		4K20017-11	11/19/2024	WG	B, D
MW-59C-111924	N		4K20017-12	11/19/2024	WG	B, D
MW-2C-111924	N		4K20017-13	11/19/2024	WG	B, D
MW-2B-111924	N		4K20017-14	11/19/2024	WG	B, D
MW-55R-111924	N		4K20017-15	11/19/2024	WG	B, D
MW-39-111924	N		4K20017-16	11/19/2024	WG	B, D
MW-40-111924	N		4K20017-17	11/19/2024	WG	B, C, D
MW-38-111924	N		4K20017-18	11/19/2024	WG	B, D
MW-53-111924	N		4K20017-19	11/19/2024	WG	B, C, D
MW-54-111924	N		4K20017-20	11/19/2024	WG	B, C, D
MW-04B-111924	N		4K20017-21	11/19/2024	WG	B, C, D
MW-20B-111924	N		4K20017-22	11/19/2024	WG	B, D
QC02-111924	FD		4K21089-01RE1	11/19/2024	WG	A
QC03-111924	FD		4K21089-02	11/19/2024	WG	A
QC04-111924	FD		4K21089-03	11/19/2024	WG	A
QC05-111924	EB		4K21089-04	11/19/2024	WQ	A
QC06-111924	EB		4K21089-05	11/19/2024	WQ	A
MW-37-111924	N		4K21089-06	11/19/2024	WG	A
MW-36-111924	N		4K21089-07	11/19/2024	WG	A
MW-50-111924	N		4K21089-08	11/19/2024	WG	A
MW-51-111924	N		4K21089-09	11/19/2024	WG	A
MW-4-111924	N		4K21089-10	11/19/2024	WG	A
MW-59C-111924	N		4K21089-11	11/19/2024	WG	A
MW-2C-111924	N		4K21089-12	11/19/2024	WG	A
MW-2B-111924	N		4K21089-13	11/19/2024	WG	A
MW-55R-111924	N		4K21089-14	11/19/2024	WG	A
MW-39-111924	N		4K21089-15	11/19/2024	WG	A
MW-40-111924	N		4K21089-16	11/19/2024	WG	A
MW-38-111924	N		4K21089-17	11/19/2024	WG	A
MW-53-111924	N		4K21089-18	11/19/2024	WG	A
MW-54-111924	N		4K21089-19	11/19/2024	WG	A
MW-04B-111924	N		4K21089-20	11/19/2024	WG	A
MW-20B-111924	N		4K21089-21	11/19/2024	WG	A

TABLE 1
SAMPLE MANAGEMENT
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
QC07-112024	TB	A874672	4K21023-01	11/20/2024	WQ	B
EW-A-112024	N		4K21023-02	11/20/2024	WG	B, D
EW-04-112024	N		4K21023-03	11/20/2024	WG	B, D
EW-07A-112024	N		4K21023-04	11/20/2024	WG	B, D
EW-07B-112024	N		4K21023-05	11/20/2024	WG	B, D
QC08-112024	FD		4K21023-06	11/20/2024	WG	B, D
MW-60A-112024	N		4K21023-07	11/20/2024	WG	B, D
MW-60B-112024	N		4K21023-08	11/20/2024	WG	B, D
MW-62A-112024	N		4K21023-09	11/20/2024	WG	B, D
MW-62B-112024	N		4K21023-10	11/20/2024	WG	B, D
QC11-112024	EB		4K21023-11	11/20/2024	WQ	B, D
PZ-07B-112024	N		4K21023-12	11/20/2024	WG	B, D
PZ-07A-112024	N		4K21023-13	11/20/2024	WG	B, D
MW-16R-112024	N		4K21023-14	11/20/2024	WG	B, D
MW-15B-112024	N		4K21023-15	11/20/2024	WG	B, D
MW-17-112024	N		4K21023-16	11/20/2024	WG	B, D
EW-05-112024	N		4K21023-17	11/20/2024	WG	B, D
MW-23-112024	N		4K21023-18	11/20/2024	WG	B, D
QC09-112024	FD		4K21023-19	11/20/2024	WG	B, D
QC10-112024	EB		4K21023-20	11/20/2024	WQ	B, D
MW-23B-112024	N		4K21023-21	11/20/2024	WG	B, D
EW-A-112024	N		4K22040-01	11/20/2024	WG	A
EW-04-112024	N		4K22040-02	11/20/2024	WG	A
EW-07A-112024	N		4K22040-03	11/20/2024	WG	A
EW-07B-112024	N		4K22040-04	11/20/2024	WG	A
QC08-112024	FD		4K22040-05	11/20/2024	WG	A
MW-60A-112024	N		4K22040-06	11/20/2024	WG	A
MW-60B-112024	N		4K22040-07	11/20/2024	WG	A
MW-62A-112024	N		4K22040-08	11/20/2024	WG	A
MW-62B-112024	N		4K22040-09	11/20/2024	WG	A
PZ-07A-112024	N		4K22040-10	11/20/2024	WG	A
MW-16R-112024	N		4K22040-11	11/20/2024	WG	A
MW-15B-112024	N		4K22040-12	11/20/2024	WG	A
MW-17-112024	N		4K22040-13	11/20/2024	WG	A
EW-05-112024	N		4K22040-14	11/20/2024	WG	A
MW-23-112024	N		4K22040-15	11/20/2024	WG	A
QC09-112024	FD		4K22040-16	11/20/2024	WG	A
QC10-112024	EB		4K22040-17	11/20/2024	WQ	A
MW-23B-112024	N		4K22040-18	11/20/2024	WG	A
QC11-112024	EB		4K22040-19	11/20/2024	WQ	A
PZ-07B-112024	N		4K22040-20	11/20/2024	WG	A
QC12-112124	TB	A874673	4K22003-01	11/21/2024	WQ	B
MW-22-112124	N		4K22003-02	11/21/2024	WG	B, D

TABLE 1
SAMPLE MANAGEMENT
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
MW-41-112124	N	A874673	4K22003-03	11/21/2024	WG	B, D
MW-24-112124	N		4K22003-04	11/21/2024	WG	B, C, D
MW-31B-112124	N		4K22003-05	11/21/2024	WG	B, D
MW-31-112124	N		4K22003-06	11/21/2024	WG	B, D
MW-32-112124	N		4K22003-07	11/21/2024	WG	B, D
MW-27-112124	N		4K22003-08	11/21/2024	WG	B, D
MW-28-112124	N		4K22003-09	11/21/2024	WG	B, C, D
QC14-112124	EB		4K22003-10	11/21/2024	WQ	B, D
EW-08-112124	N		4K22003-11	11/21/2024	WG	B, D
MW-15-112124	N		4K22003-12	11/21/2024	WG	B, D
MW-18R-112124	N		4K22003-13	11/21/2024	WG	B, D
MW-33B-112124	N		4K22003-14	11/21/2024	WG	B, D
MW-20-112124	N		4K22003-15	11/21/2024	WG	B, D
MW-64A-112124	N		4K22003-16	11/21/2024	WG	B, D
QC15-112124	FD		4K22003-17	11/21/2024	WG	B, D
MW-64B-112124	N		4K22003-18	11/21/2024	WG	B, D
QC16-112124	EB		4K22003-19	11/21/2024	WQ	B, D
MW-63-112124	N		4K22003-20	11/21/2024	WG	B, D
MW-22-112124	N		4K25038-01	11/21/2024	WG	A
MW-41-112124	N		4K25038-02	11/21/2024	WG	A
MW-24-112124	N		4K25038-03	11/21/2024	WG	A
MW-31B-112124	N		4K25038-04	11/21/2024	WG	A
MW-31-112124	N		4K25038-05	11/21/2024	WG	A
MW-32-112124	N		4K25038-06	11/21/2024	WG	A
MW-27-112124	N		4K25038-07	11/21/2024	WG	A
MW-28-112124	N		4K25038-08	11/21/2024	WG	A
QC14-112124	EB		4K25038-09	11/21/2024	WQ	A
MW-63-112124	N		4K25038-10	11/21/2024	WG	A
EW-08-112124	N		4K25038-11	11/21/2024	WG	A
MW-15-112124	N		4K25038-12	11/21/2024	WG	A
MW-18R-112124	N		4K25038-13	11/21/2024	WG	A
MW-33B-112124	N		4K25038-14	11/21/2024	WG	A
MW-20-112124	N		4K25038-15	11/21/2024	WG	A
MW-64A-112124	N		4K25038-16	11/21/2024	WG	A
QC15-112124	FD		4K25038-17	11/21/2024	WG	A
MW-64B-112124	N		4K25038-18	11/21/2024	WG	A
QC16-112124	EB		4K25038-19	11/21/2024	WQ	A
MW-61B-112224	N	A874674	4K25018-01	11/22/2024	WG	B, D
MW-57A-112224	N		4K25018-02	11/22/2024	WG	B, D
MW-58-112224	N		4K25018-03	11/22/2024	WG	B, D
QC21-112224	EB		4K25018-04	11/22/2024	WQ	B, D
QC22-112224	FB		4K25018-05	11/22/2024	WQ	B, D
MW-01-112224	N		4K25018-06	11/22/2024	WG	B, D

TABLE 1
SAMPLE MANAGEMENT
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
QC17-112224	TB	A874674	4K25018-07	11/25/2024	WQ	B
QC18-112224	FB		4K25018-08	11/22/2024	WQ	B, D
QC20-112224	EB		4K25018-09	11/22/2024	WQ	B, D
MW-26-112224	N		4K25018-10	11/22/2024	WG	B, D
MW-25B-112224	N		4K25018-11	11/22/2024	WG	B, D
MW-29-112224	N		4K25018-12	11/22/2024	WG	B, C, D
MW-30-112224	N		4K25018-13	11/22/2024	WG	B, C, D
MW-21-112224	N		4K25018-14	11/22/2024	WG	B, D
MW-61B-112224	N		4K26050-01	11/22/2024	WG	A
MW-57A-112224	N		4K26050-02	11/22/2024	WG	A
MW-58-112224	N		4K26050-03	11/22/2024	WG	A
QC21-112224	EB		4K26050-04	11/22/2024	WQ	A
QC22-112224	FB		4K26050-05	11/22/2024	WQ	A
MW-01-112224	N		4K26050-06	11/22/2024	WG	A
QC18-112224	FB		4K26050-07	11/22/2024	WQ	A
QC20-112224	EB		4K26050-08	11/22/2024	WQ	A
MW-26-112224	N		4K26050-09	11/22/2024	WG	A
MW-25B-112224	N		4K26050-10	11/22/2024	WG	A
MW-29-112224	N		4K26050-11	11/22/2024	WG	A
MW-30-112224	N		4K26050-12	11/22/2024	WG	A
MW-21-112224	N		4K26050-13	11/22/2024	WG	A

TABLE 2
METHOD HOLDING TIMES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Method Holding Times			
A	SRL524M	1,2,3-Trichloropropane	14 days for liquid, preserved
B	SW8260B	Volatile Organic Compounds (VOCs)	14 days for liquid, preserved
C	RSK175	Dissolved Gases (Methane, Ethane, Ethene)	14 days for liquid, preserved
D	SW8270C	1,4-Dioxane	7 days extraction / 40 days analysis for liquid, unpreserved

TABLE 3
LCS/LCSD
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
A874670	LCSD	SW8260B	B4K2643	sec-Butylbenzene	83.9%	J/UJ	4K20017-01, -10, -14 through -17, -19 through -22
				1,1-Dichloropropylene	80.6%		
				Trichloroethylene (TCE)	78.8%		
			B4L0226	Acetone	160%, RPD = 37.3	J/None	None, samples are ND
				2-Butanone (MEK)	RPD = 41.3		
				1,2-Dibromo-3-chloropropane	RPD = 32.3		
				Dibromomethane	RPD = 33.9		
				1,2-Dichloroethane (EDC)	RPD = 32.1		4K20017-18
				2-Hexanone (MBK)	RPD = 34.7		None, samples are ND
				Methyl-tert-Butyl Ether (MTBE)	RPD = 36.3		
				Methylene Chloride	RPD = 38.7		
				4-Methyl-2-pentanone (MIBK)	143%, RPD = 59.8		
				1,1,2,2-Tetrachloroethane	RPD = 30.4		
				Toluene	82.4%	J/UJ	4K20017-18
A874672			B4L0226	Acetone	160%, RPD = 37.3	J/None	None, samples are ND
				2-Butanone (MEK)	RPD = 41.3		
				1,2-Dibromo-3-chloropropane	RPD = 32.3		
				Dibromomethane	RPD = 33.9		
				1,2-Dichloroethane (EDC)	RPD = 32.1		4K21023-09, -19, -21
				2-Hexanone (MBK)	RPD = 34.7		None, samples are ND
				Methyl-tert-Butyl Ether (MTBE)	RPD = 36.3		
				Methylene Chloride	RPD = 38.7		
				4-Methyl-2-pentanone (MIBK)	143%, RPD = 59.8		
				1,1,2,2-Tetrachloroethane	RPD = 30.4		
				Toluene	82.4%	J/UJ	4K21023-09, -19, -20, -21
	LCS/LCSD		B4L0420	1,1-Dichloropropylene	83.4%/80.2%		4K21023-08
				Trichloroethylene (TCE)	81.2%/79.5%		
A874673	LCSD		B4L0226	Acetone	160%, RPD = 37.3	J/None	None, sample is ND
				2-Butanone (MEK)	RPD = 41.3		
				1,2-Dibromo-3-chloropropane	RPD = 32.3		
				Dibromomethane	RPD = 33.9		
				1,2-Dichloroethane (EDC)	RPD = 32.1		
				2-Hexanone (MBK)	RPD = 34.7		
				Methyl-tert-Butyl Ether (MTBE)	RPD = 36.3		
				Methylene Chloride	RPD = 38.7		
				4-Methyl-2-pentanone (MIBK)	143%, RPD = 59.8		
				1,1,2,2-Tetrachloroethane	RPD = 30.4		
				Toluene	82.4%	J/UJ	4K22003-01
	LCS		B4L0336	Acetone	139%	J/None	None, samples are ND
	LCSD			Dichlorodifluoromethane (R12)	RPD = 31.2		

TABLE 3
LCS/LCSD
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
A874673	LCSD	SW8260B	B4L0336	1,1-Dichloropropylene	77.6%	J/UJ	4K22003-03 through -09
				Trichloroethylene (TCE)	77.4%		
				Trichlorofluoromethane (R11)	RPD = 37.1	J/None	None, samples are ND
	LCS/LCSD		B4L0420	1,1-Dichloropropylene	83.4%/80.2%	J/UJ	4K22003-02, -10 through -15
				Trichloroethylene (TCE)	81.2%/79.5%		
	LCS		B4L0520	1,1-Dichloropropylene	82.2%		4K22003-16 through -20
				Trichloroethylene (TCE)	81.0%		
A874674				1,1-Dichloropropylene	82.2%	J/UJ	4K25018-01 through -10
				Trichloroethylene (TCE)	81.0%		

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874675	SW8260B	MW-19-112224	4K25019-02	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	MW-25-112224	4K25019-03	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	MW-29A-112224	4K25019-04	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	MW-57B-112224	4K25019-05	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	MW-59B-112224	4K25019-06	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	MW-61A-112224	4K25019-07	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874675	SW8260B	QC19-112224	4K25019-01	Dichlorodifluoromethane (CFC-12)	Yes	U	UJ	CCV
A874674	SW8260B	QC20-112224	4K25018-09	Acetone	Yes	12 J	50.0 U	FBK
A874670	RSK175	MW-04B-111924	4K20017-21	Methane	Yes	74	74 J	FDP
A874672	SW8260B	MW-23-112024	4K21023-18	Trichloroethene	Yes	2.1	2.1 J	FDP
A874670	RSK175	MW-37-111924	4K20017-07	Methane	Yes	39	39 J	FDP
A874670	SW8260B	MW-37-111924	4K20017-07	cis-1,2-Dichloroethene	Yes	2	2 J	FDP
A874670	SW8270C	MW-37-111924	4K20017-07	1,4-Dioxane	Yes	U	UJ	FDP
A874670	RSK175	QC02-111924	4K20017-02	Methane	Yes	14	14 J	FDP
A874670	SW8260B	QC02-111924	4K20017-02	cis-1,2-Dichloroethene	Yes	1.4	1.4 J	FDP
A874670	SW8270C	QC02-111924	4K20017-02	1,4-Dioxane	Yes	2	2 J	FDP
A874670	RSK175	QC04-111924	4K20017-04	Methane	Yes	41	41 J	FDP
A874672	SW8260B	QC09-112024	4K21023-19	Trichloroethene	Yes	2.6	2.6 J	FDP
A874675	SW8260B	MW-19-112224	4K25019-02	Vinyl chloride	Yes	3.9	3.9 J	ICL
A874675	SW8260B	MW-25-112224	4K25019-03	Vinyl chloride	Yes	U	UJ	ICL
A874675	SW8260B	MW-29A-112224	4K25019-04	Vinyl chloride	Yes	U	UJ	ICL
A874675	SW8260B	MW-57B-112224	4K25019-05	Carbon disulfide	Yes	U	UJ	ICL
A874675	SW8260B	MW-57B-112224	4K25019-05	Vinyl chloride	Yes	U	UJ	ICL
A874675	SW8260B	MW-59B-112224	4K25019-06	Carbon disulfide	Yes	U	UJ	ICL
A874675	SW8260B	MW-59B-112224	4K25019-06	Vinyl chloride	Yes	9.1	9.1 J	ICL
A874675	SW8260B	MW-61A-112224	4K25019-07	Vinyl chloride	Yes	8.8	8.8 J	ICL
A874675	SW8260B	QC19-112224	4K25019-01	Vinyl chloride	Yes	U	UJ	ICL
A874673	SW8260B	EW-08-112124	4K22003-11	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	EW-08-112124	4K22003-11	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	MW-01-112224	4K25018-06	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	MW-01-112224	4K25018-06	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-04B-111924	4K20017-21	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-04B-111924	4K20017-21	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-04B-111924	4K20017-21	Trichloroethene	Yes	0.91	0.91 J	LCS

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874673	SW8260B	MW-15-112124	4K22003-12	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-15-112124	4K22003-12	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-18R-112124	4K22003-13	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-18R-112124	4K22003-13	Trichloroethene	Yes	1.3	1.3 J	LCS
A874673	SW8260B	MW-20-112124	4K22003-15	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-20-112124	4K22003-15	Trichloroethene	Yes	1.1	1.1 J	LCS
A874670	SW8260B	MW-20B-111924	4K20017-22	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-20B-111924	4K20017-22	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-20B-111924	4K20017-22	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-22-112124	4K22003-02	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-22-112124	4K22003-02	Trichloroethene	Yes	1	1 J	LCS
A874672	SW8260B	MW-23B-112024	4K21023-21	1,2-Dichloroethane	Yes	0.81	0.81 J	LCS
A874672	SW8260B	MW-23B-112024	4K21023-21	Toluene	Yes	U	UJ	LCS
A874673	SW8260B	MW-24-112124	4K22003-04	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-24-112124	4K22003-04	Trichloroethene	Yes	0.32 J	0.32 J	LCS
A874674	SW8260B	MW-26-112224	4K25018-10	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	MW-26-112224	4K25018-10	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-27-112124	4K22003-08	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-27-112124	4K22003-08	Trichloroethene	Yes	1.4	1.4 J	LCS
A874673	SW8260B	MW-28-112124	4K22003-09	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-28-112124	4K22003-09	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-2B-111924	4K20017-14	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-2B-111924	4K20017-14	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-2B-111924	4K20017-14	Trichloroethene	Yes	0.45 J	0.45 J	LCS
A874673	SW8260B	MW-31-112124	4K22003-06	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-31-112124	4K22003-06	Trichloroethene	Yes	0.43 J	0.43 J	LCS
A874673	SW8260B	MW-31B-112124	4K22003-05	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-31B-112124	4K22003-05	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-32-112124	4K22003-07	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-32-112124	4K22003-07	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-33B-112124	4K22003-14	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-33B-112124	4K22003-14	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-38-111924	4K20017-18	1,2-Dichloroethane	Yes	0.89	0.89 J	LCS
A874670	SW8260B	MW-38-111924	4K20017-18	Toluene	Yes	U	UJ	LCS

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874670	SW8260B	MW-39-111924	4K20017-16	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-39-111924	4K20017-16	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-39-111924	4K20017-16	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-40-111924	4K20017-17	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-40-111924	4K20017-17	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-40-111924	4K20017-17	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-41-112124	4K22003-03	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-41-112124	4K22003-03	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-51-111924	4K20017-10	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-51-111924	4K20017-10	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-51-111924	4K20017-10	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-53-111924	4K20017-19	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-53-111924	4K20017-19	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-53-111924	4K20017-19	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-54-111924	4K20017-20	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-54-111924	4K20017-20	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-54-111924	4K20017-20	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	MW-55R-111924	4K20017-15	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	MW-55R-111924	4K20017-15	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	MW-55R-111924	4K20017-15	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	MW-57A-112224	4K25018-02	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	MW-57A-112224	4K25018-02	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	MW-58-112224	4K25018-03	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	MW-58-112224	4K25018-03	Trichloroethene	Yes	U	UJ	LCS
A874672	SW8260B	MW-60B-112024	4K21023-08	1,1-Dichloropropene	Yes	U	UJ	LCS
A874672	SW8260B	MW-60B-112024	4K21023-08	Trichloroethene	Yes	U	UJ	LCS
A874675	SW8260B	MW-61A-112224	4K25019-07	Naphthalene	Yes	0.52 J	0.52 J	LCS
A874674	SW8260B	MW-61B-112224	4K25018-01	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	MW-61B-112224	4K25018-01	Trichloroethene	Yes	U	UJ	LCS
A874672	SW8260B	MW-62A-112024	4K21023-09	1,2-Dichloroethane	Yes	2.7	2.7 J	LCS
A874672	SW8260B	MW-62A-112024	4K21023-09	Toluene	Yes	U	UJ	LCS
A874673	SW8260B	MW-63-112124	4K22003-20	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-63-112124	4K22003-20	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-64A-112124	4K22003-16	1,1-Dichloropropene	Yes	U	UJ	LCS

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874673	SW8260B	MW-64A-112124	4K22003-16	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	MW-64B-112124	4K22003-18	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	MW-64B-112124	4K22003-18	Trichloroethene	Yes	U	UJ	LCS
A874670	SW8260B	QC01-111924	4K20017-01	1,1-Dichloropropene	Yes	U	UJ	LCS
A874670	SW8260B	QC01-111924	4K20017-01	2-Phenylbutane (sec-Butylbenzene)	Yes	U	UJ	LCS
A874670	SW8260B	QC01-111924	4K20017-01	Trichloroethene	Yes	U	UJ	LCS
A874672	SW8260B	QC09-112024	4K21023-19	1,2-Dichloroethane	Yes	0.52	0.52 J	LCS
A874672	SW8260B	QC09-112024	4K21023-19	Toluene	Yes	U	UJ	LCS
A874672	SW8260B	QC10-112024	4K21023-20	Toluene	Yes	U	UJ	LCS
A874673	SW8260B	QC12-112124	4K22003-01	Toluene	Yes	U	UJ	LCS
A874673	SW8260B	QC14-112124	4K22003-10	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	QC14-112124	4K22003-10	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	QC15-112124	4K22003-17	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	QC15-112124	4K22003-17	Trichloroethene	Yes	U	UJ	LCS
A874673	SW8260B	QC16-112124	4K22003-19	1,1-Dichloropropene	Yes	U	UJ	LCS
A874673	SW8260B	QC16-112124	4K22003-19	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	QC17-112224	4K25018-07	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	QC17-112224	4K25018-07	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	QC18-112224	4K25018-08	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	QC18-112224	4K25018-08	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	QC20-112224	4K25018-09	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	QC20-112224	4K25018-09	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	QC21-112224	4K25018-04	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	QC21-112224	4K25018-04	Trichloroethene	Yes	U	UJ	LCS
A874674	SW8260B	QC22-112224	4K25018-05	1,1-Dichloropropene	Yes	U	UJ	LCS
A874674	SW8260B	QC22-112224	4K25018-05	Trichloroethene	Yes	U	UJ	LCS
A874672	SW8260B	EW-04-112024	4K21023-03	Carbon disulfide	Yes	0.29 J	0.5 U	MBK
A874672	SW8260B	MW-15B-112024	4K21023-15	Carbon disulfide	Yes	0.25 J	0.5 U	MBK
A874672	SW8260B	MW-16R-112024	4K21023-14	Carbon disulfide	Yes	0.26 J	0.5 U	MBK
A874670	SW8260B	MW-2C-111924	4K20017-13	Carbon disulfide	Yes	0.26 J	0.5 U	MBK
A874670	SW8260B	MW-36-111924	4K20017-08	Carbon disulfide	Yes	0.28 J	0.5 U	MBK
A874670	SW8260B	MW-37-111924	4K20017-07	Carbon disulfide	Yes	0.22 J	0.5 U	MBK
A874670	SW8260B	MW-59C-111924	4K20017-12	Carbon disulfide	Yes	0.4 J	0.5 U	MBK
A874672	SW8260B	MW-62B-112024	4K21023-10	Carbon disulfide	Yes	0.33 J	0.5 U	MBK

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874672	SW8260B	PZ-07A-112024	4K21023-13	Carbon disulfide	Yes	0.4 J	0.5 U	MBK
A874672	SW8260B	PZ-07B-112024	4K21023-12	Carbon disulfide	Yes	0.4 J	0.5 U	MBK
A874670	SW8260B	QC02-111924	4K20017-02	Carbon disulfide	Yes	0.23 J	0.5 U	MBK
A874670	SW8260B	QC03-111924	4K20017-03	Carbon disulfide	Yes	0.54	0.54 U	MBK
A874670	SW8260B	QC04-111924	4K20017-04	Carbon disulfide	Yes	0.21 J	0.5 U	MBK
A874672	SW8260B	QC07-112024	4K21023-01	Carbon disulfide	Yes	0.4 J	0.5 U	MBK
A874672	SW8260B	QC11-112024	4K21023-11	Carbon disulfide	Yes	0.51	0.51 U	MBK
A874674	SW8260B	MW-01-112224	4K25018-06	Styrene	Yes	U	UJ	MSD
A874673	SW8260B	MW-31B-112124	4K22003-05	Vinyl chloride	Yes	30	30 J	MSD
A874673	SW8260B	MW-31B-112124	4K22003-05	cis-1,2-Dichloroethene	Yes	21	21 J	MSD
A874670	SW8260B	MW-50-111924	4K20017-09	1,2,4-Trichlorobenzene	Yes	U	UJ	MSD
4K25038	SRL524M	MW-31B-112124	4K25038-04	1,2,3-Trichloropropane	Yes	0.020	0.020 J	MSD
A874673	SW8260B	EW-08-112124	4K22003-11	Carbon disulfide	Yes	0.23 J	0.5 U	TBK
A874670	SW8260B	MW-04B-111924	4K20017-21	Carbon disulfide	Yes	1.1	1.1 U	TBK
A874673	SW8260B	MW-18R-112124	4K22003-13	Carbon disulfide	Yes	2.6	2.6 U	TBK
A874673	SW8260B	MW-24-112124	4K22003-04	Carbon disulfide	Yes	0.69	0.69 U	TBK
A874673	SW8260B	MW-28-112124	4K22003-09	Carbon disulfide	Yes	0.26 J	0.5 U	TBK
A874673	SW8260B	MW-31-112124	4K22003-06	Carbon disulfide	Yes	0.54	0.54 U	TBK
A874673	SW8260B	MW-31B-112124	4K22003-05	Carbon disulfide	Yes	0.36 J	0.5 U	TBK
A874673	SW8260B	MW-32-112124	4K22003-07	Carbon disulfide	Yes	0.4 J	0.5 U	TBK
A874673	SW8260B	MW-33B-112124	4K22003-14	Carbon disulfide	Yes	0.26 J	0.5 U	TBK
A874670	SW8260B	MW-51-111924	4K20017-10	Carbon disulfide	Yes	0.26 J	0.5 U	TBK
A874670	SW8260B	MW-55R-111924	4K20017-15	Carbon disulfide	Yes	0.54	0.54 U	TBK
A874674	SW8260B	MW-57A-112224	4K25018-02	Carbon disulfide	Yes	0.29 J	0.5 U	TBK
A874674	SW8260B	MW-61B-112224	4K25018-01	Carbon disulfide	Yes	0.6	0.6 U	TBK
A874673	SW8260B	MW-63-112124	4K22003-20	Carbon disulfide	Yes	0.21 J	0.5 U	TBK
A874673	SW8260B	MW-64A-112124	4K22003-16	Carbon disulfide	Yes	0.88	0.88 U	TBK
A874673	SW8260B	QC14-112124	4K22003-10	Carbon disulfide	Yes	0.86	0.86 U	TBK
A874673	SW8260B	QC15-112124	4K22003-17	Carbon disulfide	Yes	0.21 J	0.5 U	TBK
A874673	SW8260B	QC16-112124	4K22003-19	Carbon disulfide	Yes	1.1	1.1 U	TBK
A874674	SW8260B	QC18-112224	4K25018-08	Carbon disulfide	Yes	1.4	1.4 J+	TBK
A874674	SW8260B	QC21-112224	4K25018-04	Carbon disulfide	Yes	0.3 J	0.5 U	TBK
A874674	SW8260B	MW-21-112224	4K25018-14	Carbon disulfide	Yes	0.7	0.7 U	TBK, FBK
A874674	SW8260B	MW-25B-112224	4K25018-11	Carbon disulfide	Yes	3.2	3.2 J+	TBK, FBK

TABLE 4
SYSTEM PERFORMANCE SUMMARY
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

SDG	Method	Sample ID	Lab ID	Analyte	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
A874674	SW8260B	MW-26-112224	4K25018-10	Carbon disulfide	Yes	0.67	0.67 U	TBK, FBK
A874674	SW8260B	MW-29-112224	4K25018-12	Carbon disulfide	Yes	2.6	2.6 J+	TBK, FBK
A874674	SW8260B	MW-30-112224	4K25018-13	Carbon disulfide	Yes	0.29 J	0.5 U	TBK, FBK
A874674	SW8260B	QC20-112224	4K25018-09	Carbon disulfide	Yes	1.4	1.4 U	TBK, FBK
A874675	SW8260B	MW-19-112224	4K25019-02	Carbon disulfide	Yes	0.76	0.76 UJ	TBK, ICL
A874675	SW8260B	MW-61A-112224	4K25019-07	Carbon disulfide	Yes	0.4 J	0.5 UJ	TBK, ICL
A874675	SW8260B	MW-25-112224	4K25019-03	Carbon disulfide	Yes	0.58	0.58 UJ	TBK, FBK, ICL
A874675	SW8260B	MW-29A-112224	4K25019-04	Carbon disulfide	Yes	0.8	0.8 UJ	TBK, FBK, ICL
A874675	SW8260B	QC19-112224	4K25019-01	Carbon disulfide	Yes	0.42 J	0.5 UJ	TBK, FBK, ICL

Notes:

TBK = Trip blank contamination.

MBK = Method blank contamination.

LCS = Laboratory control/laboratory control spike duplicate percent recoveries or relative percent difference were outside the specified limits.

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.

FBK = Field blank contamination.

ICL = Initial calibration outside the specified limits for organics.

CCV = Continuing calibration verification was outside the specified limits.

FDP = Field duplicate qualifier due to an exceedance of the specified limits.

J+ = The result is an estimated quantity, but the result may be biased high.

J = Estimated concentration.

UJ = The compound was not detected. The reported sample quantitation limit is approximate.

U = The compound was analyzed for but not detected.

Data Usability Summary Report

Project Name: Cooper Drum Company Superfund Site

Project Description: Groundwater Samples

Sample Date(s): 3 July through 9 December 2024

Analytical Laboratory: American Analytics, Chatsworth, California

Validation Performed by: Gabrielle Davis

Validation Reviewed by: Katherine Miller

Validation Date: 14 January 2025

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Numbers**
2. **Explanations**
3. **Glossary**
4. **Abbreviations**
5. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.
- The project-specific Sampling Analysis Plan (SAP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number(s):

- A874662, dated 18 July 2024;
- A874663, dated 19 July 2024;
- A874665, dated 21 August 2024;
- A874667, dated 1 October 2024;
- A874668, dated 21 October 2024;
- A874669, dated 22 November 2024; and
- A874676, dated 18 December 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Samples for SRL524M analysis were subcontracted to Weck Laboratories, Inc. – Industry, California.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- A874669: The laboratory logged sample 4K05013-02/4K06041-02 as HT-EFF-110524 which did not match the COC (TOTAL-EFF-110524).

Analyses were performed on the following samples:

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
HT-INF-070324	N	A874662	4G03014-01	07/03/2024	WG	A, B
TOTAL-EFF-070324	N		4G03014-02	07/03/2024	WG	A, B
HT-INF-070324	N		4G08109-01	07/03/2024	WG	C
TOTAL-EFF-070324	N		4G08109-02	07/03/2024	WG	C
CARBON INF-070324	N	A874663	4G03015-01	07/03/2024	WG	A, B
CARBON MID-070324	N		4G03015-02	07/03/2024	WG	A, B
CARBON EFF-070324	N		4G03015-03	07/03/2024	WG	A, B
HT-INF-080624	N	A874665	4H06020-01	08/06/2024	WG	A, B
TOTAL-EFF-080624	N		4H06020-02	08/06/2024	WG	A, B
HT-INF-080624	N		4H07073-01	08/06/2024	WG	C
TOTAL-EFF-080624	N		4H07073-02	08/06/2024	WG	C
HT-INF-091124	N	A874667	4I11008-01	09/11/2024	WG	A, B
TOTAL-EFF-091124	N		4I11008-02	09/11/2024	WG	A, B
HT-INF-091124	N		4I12060-01	09/11/2024	WG	C
TOTAL-EFF-091124	N		4I12060-02	09/11/2024	WG	C
HT-INF-100324	N	A874668	4J03019-01	10/03/2024	WG	A, B
TOTAL-EFF-100324	N		4J03019-02	10/03/2024	WG	A, B
HT-INF-100324	N		4J04085-01	10/03/2024	WG	C
TOTAL-EFF-100324	N		4J04085-02	10/03/2024	WG	C

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
HT-INF-110524	N	A874669	4K05013-01	11/05/2024	WG	A, B
HT-EFF-110524	N		4K05013-02	11/05/2024	WG	A, B
HT-INF-110524	N		4K06041-01	11/05/2024	WG	C
HT-EFF-110524	N		4K06041-02	11/05/2024	WG	C
HT-INF-120924	N	A874676	4L09024-01	12/09/2024	WG	A, B
TOTAL-EFF-120924	N		4L09024-02	12/09/2024	WG	A, B
HT-INF-120924	N		4L10087-01	12/09/2024	WG	C
TOTAL-EFF-120924	N		4L10087-02	12/09/2024	WG	C

Method Holding Times			
A.	SW8260B	Volatile Organic Compounds (VOCs)	14 days for liquid, preserved
B.	SW8270C	1,4-Dioxane	7 days extraction / 40 days analysis for liquid, unpreserved
C.	SRL524M	1,2,3-Trichloropropane	14 days for liquid, preserved

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exception:

Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
SRL524M	Water	14 days for liquid, preserved	Cool to ≤ 6 degrees Celsius (°C)	The cooler containing the following samples was received warm at 8.0°C: 4G08109-01, -02 Sample results were qualified J.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific SAP. All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required due to matrix interference.

1.4 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.5 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
A874663	LCS/LCSD	SW8260B	B4G1618	Ethylbenzene	130%/126%	J/None	None, samples are non-detect (ND)
				Toluene	123%/120%		
	LCSD			1,3-Dichloropropane	118%		
				1,1,2-Trichloroethane	124%		
A874665	LCS		B4H0816	n-Propylbenzene	137%		
	LCSD			Vinyl chloride	196%, RPD = 37.8		4H06020-01, -02
A874667	LCS		B4I1924		153%		4I11008-01, -02
	LCSD			Acetone	132%		None, samples are ND
				Bromochloromethane	123%		
				Bromomethane	147%		
				sec-Butylbenzene	81.0%	J/UJ	4I11008-01, -02
				Dibromomethane	141%	J/None	None, samples are ND
				2,2-Dichloropropane	RPD = 36.4		
				1,1-Dichloropropylene	78.7%	J/UJ	4I11008-01, -02
A874668	LCS		B4J0920	1,1-Dichloropropylene	83.5%		4J03019-01, -02
	LCSD			Acetone	RPD = 32.1	J/None	None, samples are ND
				Bromoform	134%		
				tert-Butylbenzene	RPD = 32.0		
				1,2-Dibromoethane (EDB)	124%, RPD = 30.8		
				1,3-Dichloropropane	122%		
				Styrene	124%		
				Toluene	120%		
				1,1,2-Trichloroethane	120%		
A874669	LCS/LCSD		B4K0622	1,1-Dichloropropylene	81.0%/81.1%	J/UJ	4K05013-01, -02
	LCS			1,1,2-Trichloro-1,2,2-trifluoroethane	49.2%, RPD = 51.5		
A874676	LCSD		B4L1302		57.8%		4L09024-01, -02

1.6 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
4G03014-01	HT-INF-070324	SW8260B
4H06020-01	HT-INF-080624	

The MS/MSD recoveries, and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	SW8260B	HT-INF-070324	cis-1,2-Dichloroethylene	137%/150%	J/None	4G03014-01
MS		HT-INF-080624	n-Propylbenzene	132%		None, sample is ND
MS/MSD			Vinyl chloride	168%/166%		4H06020-01
MSD			Bromomethane	147%		None, sample is ND

1.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
Method Blank	B4H0816	Naphthalene	0.740 J	NA	None, samples are ND

Note: *µg/L = micrograms per liter*

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
4I12060-01	HT-INF-091124	SRL524M
4K06041-01	HT-INF-110524	
4K06041-02	HT-EFF-110524	

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
4L10087-01	HT-INF-120924	SRL524M
4L10087-02	TOTAL-EFF-120924	

1.9 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. The qualifiers applied to this dataset are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
TOTAL-EFF-080624	Vinyl chloride	2.0	2.0 J	LCS %R Outside Acceptance Limits
HT-INF-100324	1,1-Dichloropropene	ND U	ND UJ	
TOTAL-EFF-100324	1,1-Dichloropropene	ND U	ND UJ	
HT-INF-091124	2-Phenylbutane (sec-Butylbenzene)	ND U	ND UJ	
HT-INF-091124	1,1-Dichloropropene	ND U	ND UJ	
HT-INF-091124	Vinyl chloride	2.4	2.4 J	
TOTAL-EFF-091124	2-Phenylbutane (sec-Butylbenzene)	ND U	ND UJ	
TOTAL-EFF-091124	1,1-Dichloropropene	ND U	ND UJ	
TOTAL-EFF-091124	Vinyl chloride	1.5	1.5 J	
HT-EFF-110524	1,1-Dichloropropene	ND U	ND UJ	
HT-EFF-110524	Trifluorotrichloroethane (Freon 113)	ND U	ND UJ	
HT-INF-110524	1,1-Dichloropropene	ND U	ND UJ	
HT-INF-110524	Trifluorotrichloroethane (Freon 113)	ND U	ND UJ	
HT-INF-120924	Trifluorotrichloroethane (Freon 113)	ND U	ND UJ	
TOTAL-EFF-120924	Trifluorotrichloroethane (Freon 113)	ND U	ND UJ	
HT-INF-080624	Vinyl chloride	3.1	3.1 J	LCS and MS %R Outside Acceptance Limits
HT-INF-070324	cis-1,2-Dichloroethene	36	36 J	MS %R Outside Acceptance Limits
HT-INF-070324	1,2,3-Trichloropropane	0.043	0.043 J	Receiving Temperature Exceeded
TOTAL-EFF-070324	1,2,3-Trichloropropane	0.045	0.045 J	

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
  - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
  - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

*Analyte names may be abbreviated for simplicity. Please reference the laboratory report for the full analyte name.
Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
  - pg/L picograms per liter
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - ST Solid Waste
  - WQ Water Quality control matrix
  - WS Surface Water
  - WW Waste Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius

- ± plus or minus
- ~ approximately
- x times (multiplier)

- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

4. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E The compound was quantitated above the calibration range.

  D The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ The result is an estimated quantity, but the result may be biased high.

  J- The result is an estimated quantity, but the result may be biased low.

  J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ The compound was not detected. The reported sample quantitation limit is approximate.

  NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S Result is suspect. See DUSR for details.

References

1. AMEC Geomatrix, Inc., 2011. Sampling and Analysis Plan for Groundwater Sampling, Field Sampling Plan and Quality Assurance Project Plan. 6 April.
2. United States Environmental Protection Agency, 2017. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-2017-002. January.

Data Usability Summary Report

Project Name: Cooper Drum Company Superfund Site

Project Description: Soil Gas and Soil Vapor Samples

Sample Date(s): 3 July through 6 August 2024

Analytical Laboratory: American Analytics, Chatsworth, California

Validation Performed by: Gabrielle Davis

Validation Reviewed by: Katherine Miller

Validation Date: 13 January 2025

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Numbers A874661 and A874664**
2. **Explanations**
3. **Glossary**
4. **Abbreviations**
5. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Organic Data Review.
- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.
- The project-specific Sampling Analysis Plan (SAP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers A874661 and A874664

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number(s):

- A874661, dated 12 July 2024; and
- A874664, dated 19 August 2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the following samples:

Sample ID	Sample Type	SDG	Lab ID	Sample Date	Matrix	Methods
SVE-VGACE-070324	N	A874661	4G03013-01	07/03/2024	GS	A, B
SVE-VGACM-070324	N		4G03013-02	07/03/2024	GS	A, B
SVE-VGACI-070324	N		4G03013-03	07/03/2024	GS	A, B
SVE-VGACE-080624	N	A874664	4H06019-01	08/06/2024	SV	A, B
SVE-VGACM-080624	N		4H06019-02	08/06/2024	SV	A, B
SVE-VGACI-080624	N		4H06019-03	08/06/2024	SV	A, B

Method Holding Times			
A.	TO-15	VOCs in Air	3 days for Tedlar bags
B.	TO3	VOCs in Air	

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific SAP. All sample dilutions were reviewed and found to be justified. Only detected analytes were reported from a sample dilution analysis.

1.4 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.5 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
A874664	LCS/LCSD	TO-15	B4H1438	Hexachlorobutadiene	137%/145%	J/None	None, samples are non-detect (ND)
				1,2,4-Trichlorobenzene	147%/157%		
	LCSD			Chloromethane	132%		

1.6 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.7 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

1.8 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
  - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
  - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

*Analyte names may be abbreviated for simplicity. Please reference the laboratory report for the full analyte name.
Not all of the following symbols, acronyms, or qualifiers occur in this document.

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  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
  - pg/L picograms per liter
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - ST Solid Waste
  - WQ Water Quality control matrix
  - WS Surface Water
  - WW Waste Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius

- ± plus or minus
- ~ approximately
- x times (multiplier)

- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

4. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U — The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B — The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E — The compound was quantitated above the calibration range.

  D — The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J — The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ — The result is an estimated quantity, but the result may be biased high.

  J- — The result is an estimated quantity, but the result may be biased low.

  J/UJ — as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ — The compound was not detected. The reported sample quantitation limit is approximate.

  NJ — The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

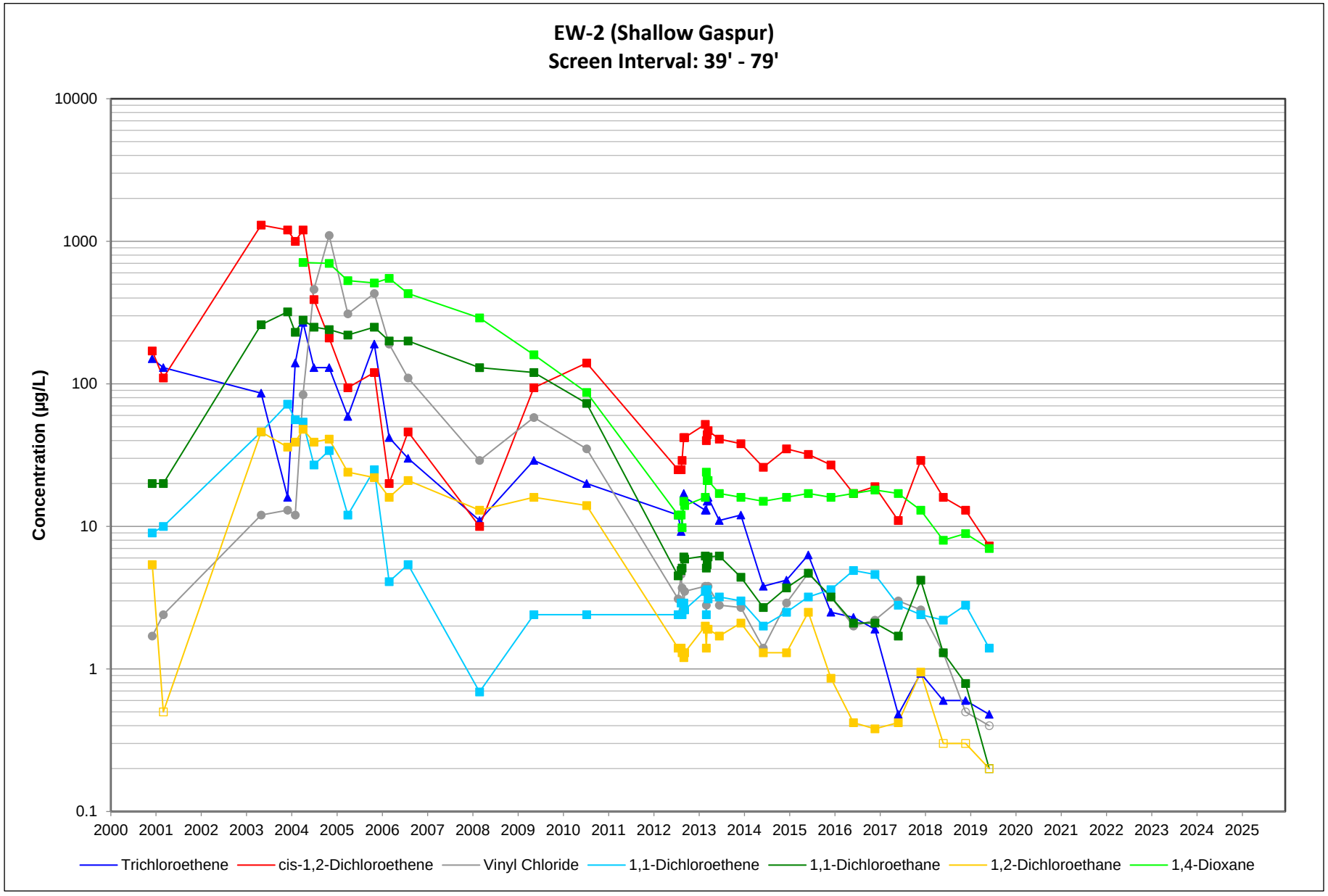
  R — The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S — Result is suspect. See DUSR for details.

References

1. AMEC Geomatrix, Inc., 2011. Sampling and Analysis Plan for Soil Vapor Monitoring, Field Sampling Plan and Quality Assurance Project Plan, Operable Unit 2. May.
2. United States Environmental Protection Agency, 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June.
3. United States Environmental Protection Agency, 2017. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-2017-002. January.

APPENDIX G
COC Concentration Trend Plots



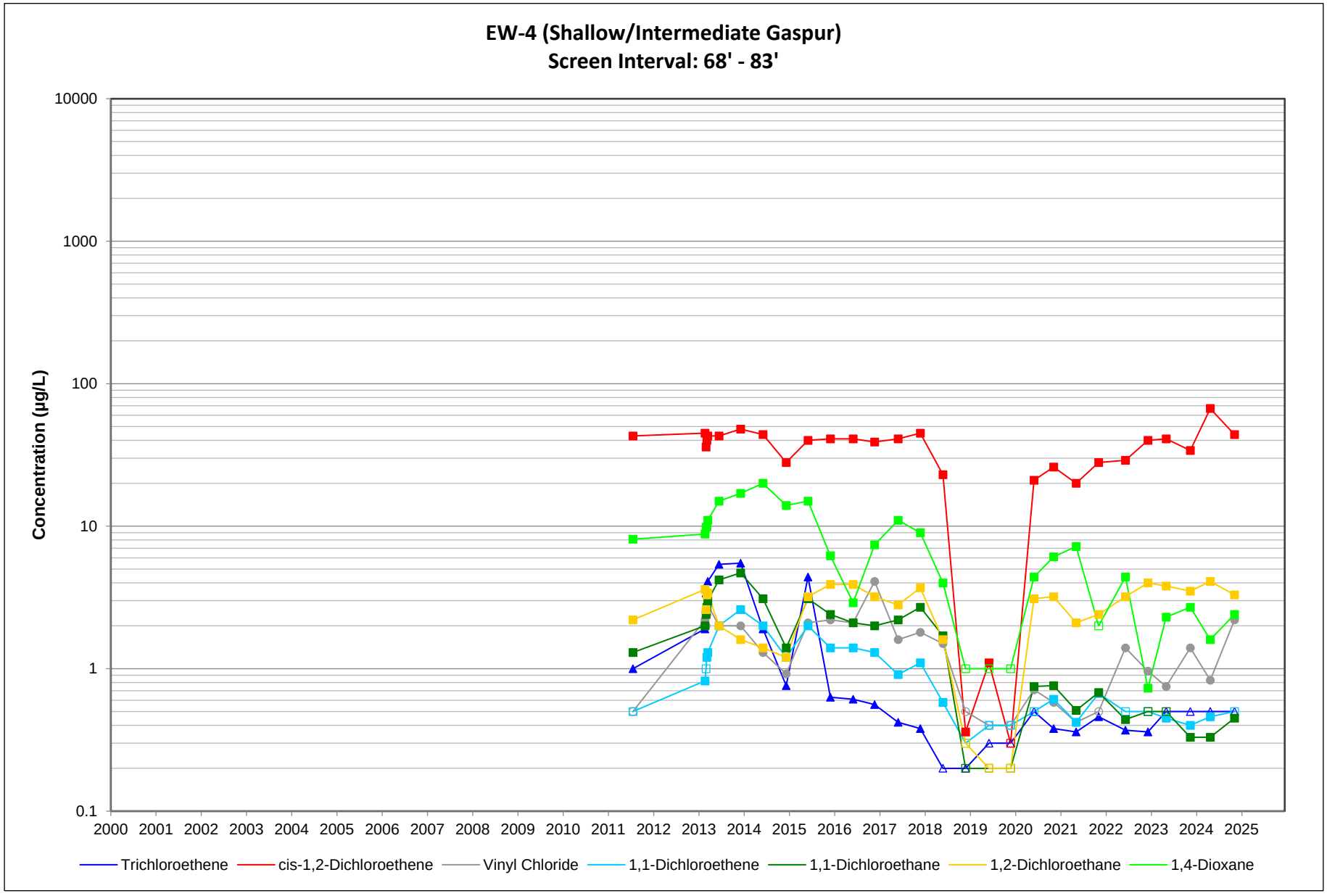
Notes:

Open symbols = compound not detected above the laboratory reporting limit

µg/L = micrograms per liter

well Intervals are in feet below ground surface

FEBRUARY 2025



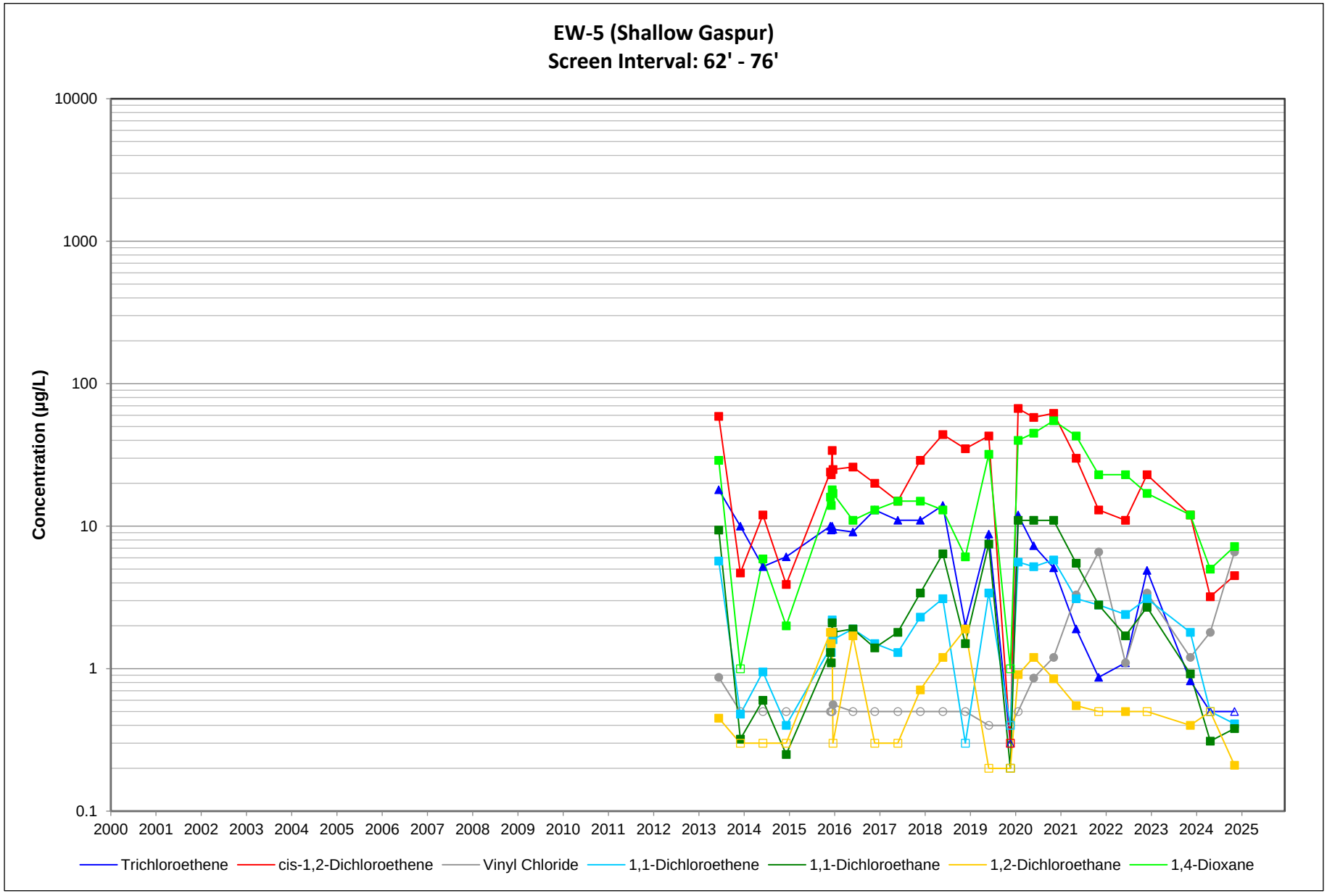
Notes:

Open symbols = compound not detected above the laboratory reporting limit

µg/L = micrograms per liter

well Intervals are in feet below ground surface

FEBRUARY 2025



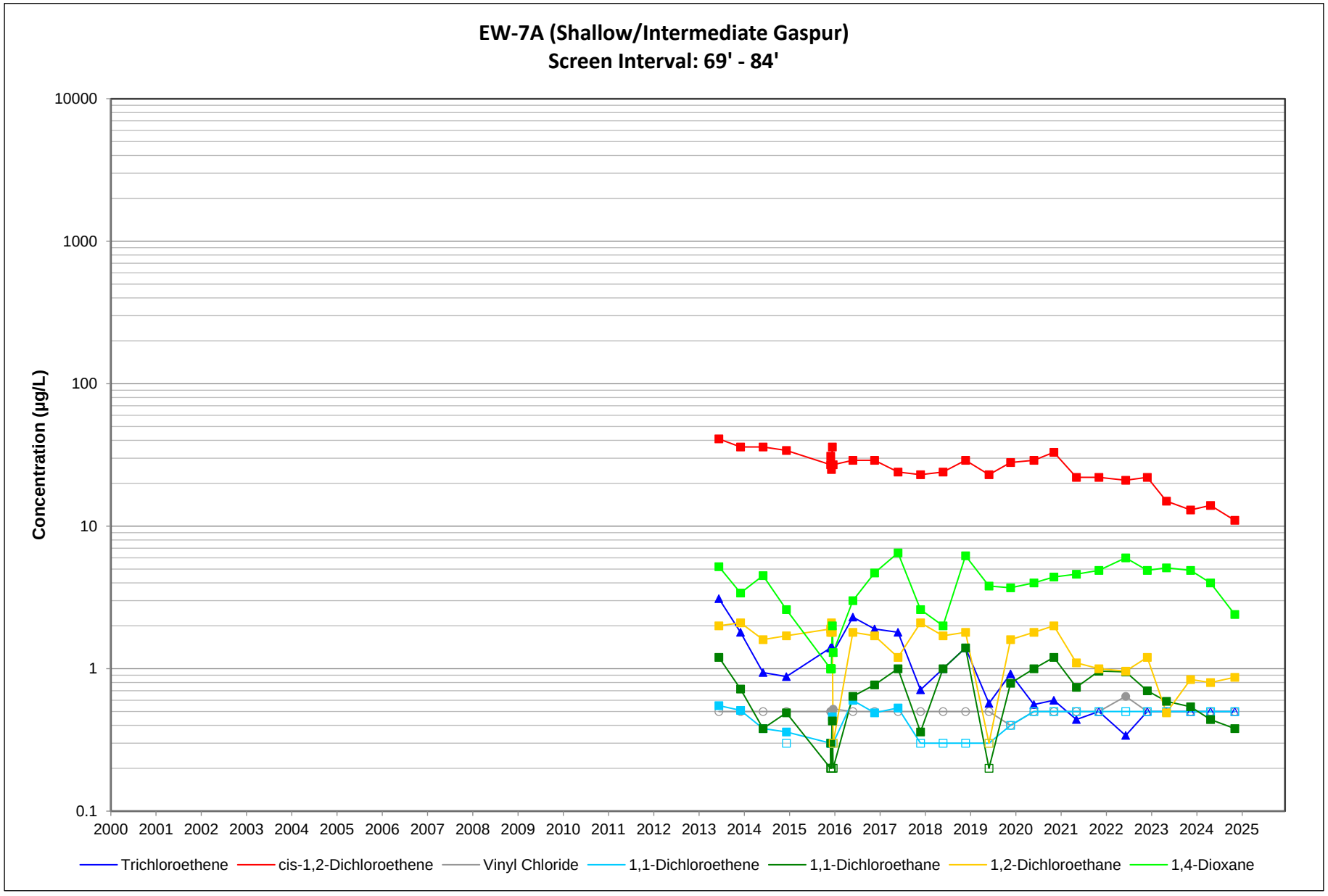
Notes:

Open symbols = compound not detected above the laboratory reporting limit

µg/L = micrograms per liter

well Intervals are in feet below ground surface

FEBRUARY 2025



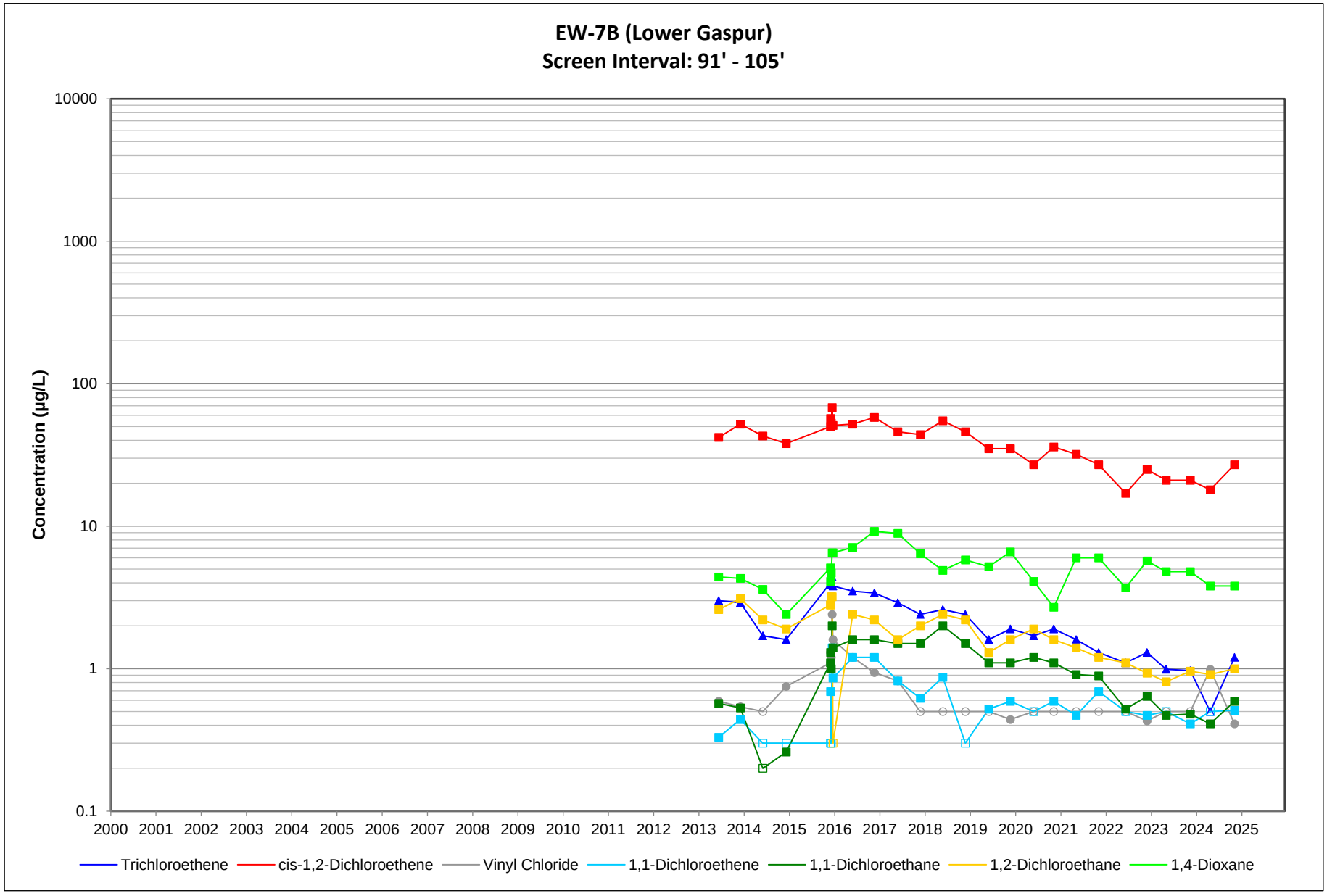
Notes:

Open symbols = compound not detected above the laboratory reporting limit

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well Intervals are in feet below ground surface

FEBRUARY 2025



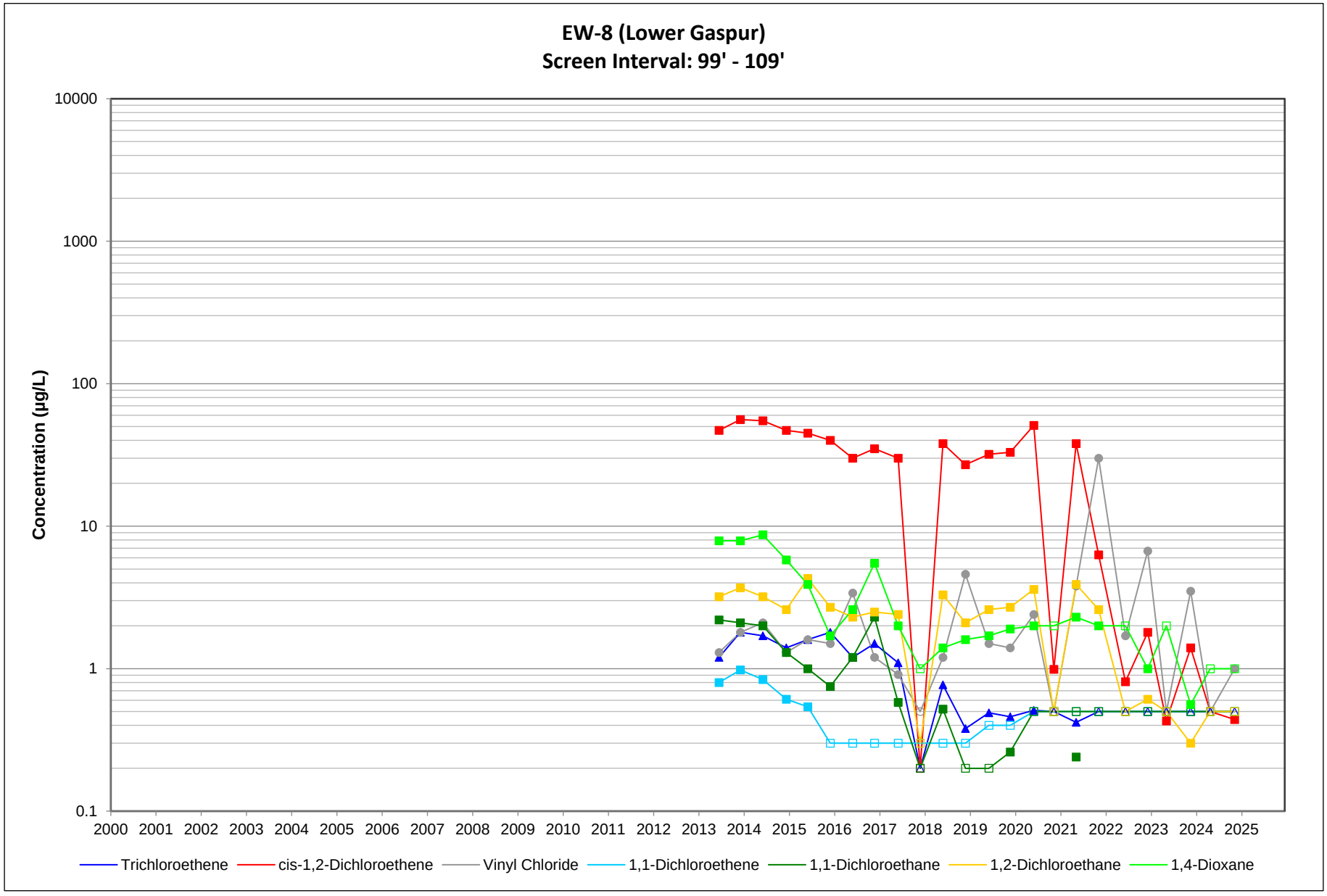
Notes:

Open symbols = compound not detected above the laboratory reporting limit

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well Intervals are in feet below ground surface

FEBRUARY 2025



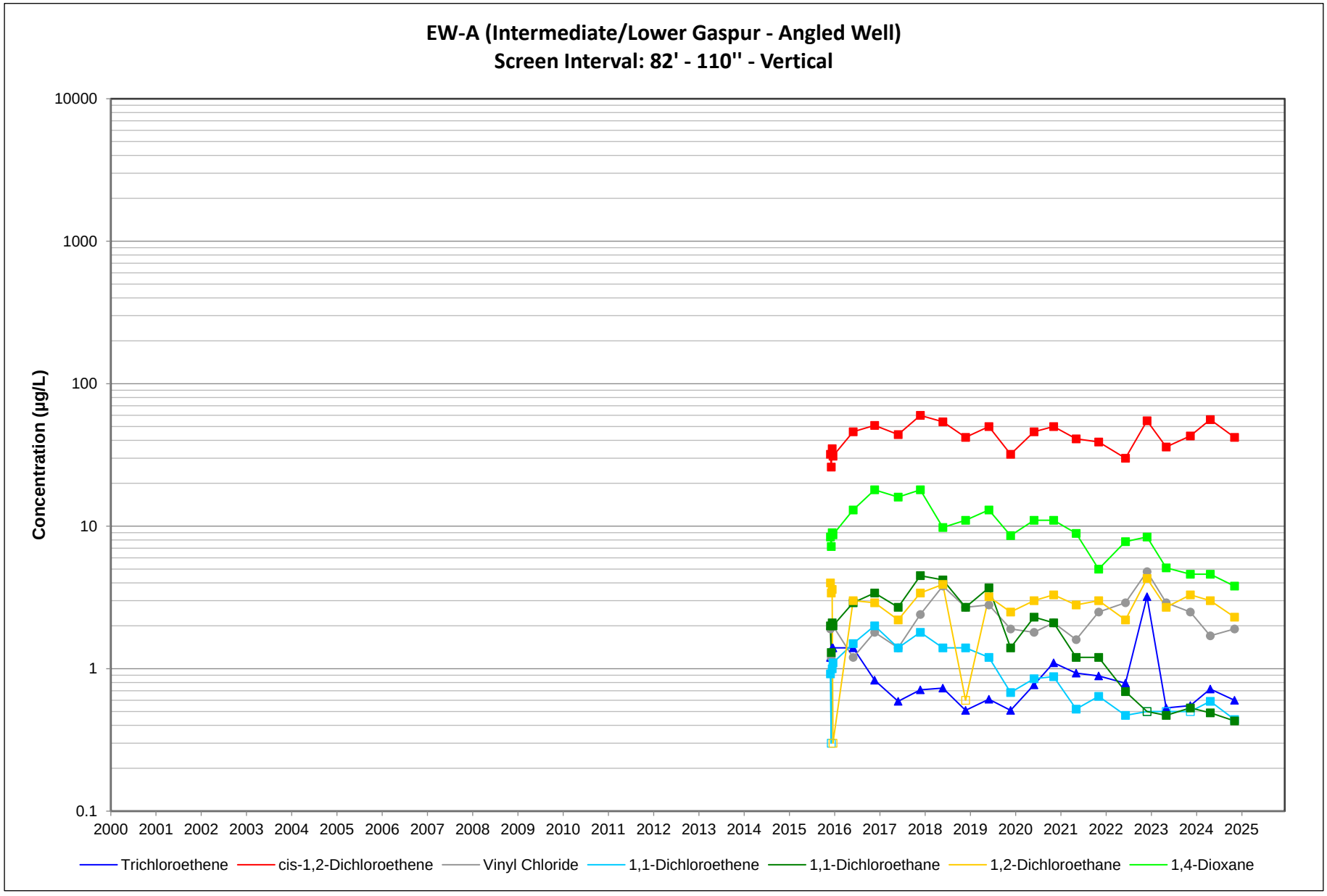
Notes:

Open symbols = compound not detected above the laboratory reporting limit

µg/L = micrograms per liter

well Intervals are in feet below ground surface

FEBRUARY 2025



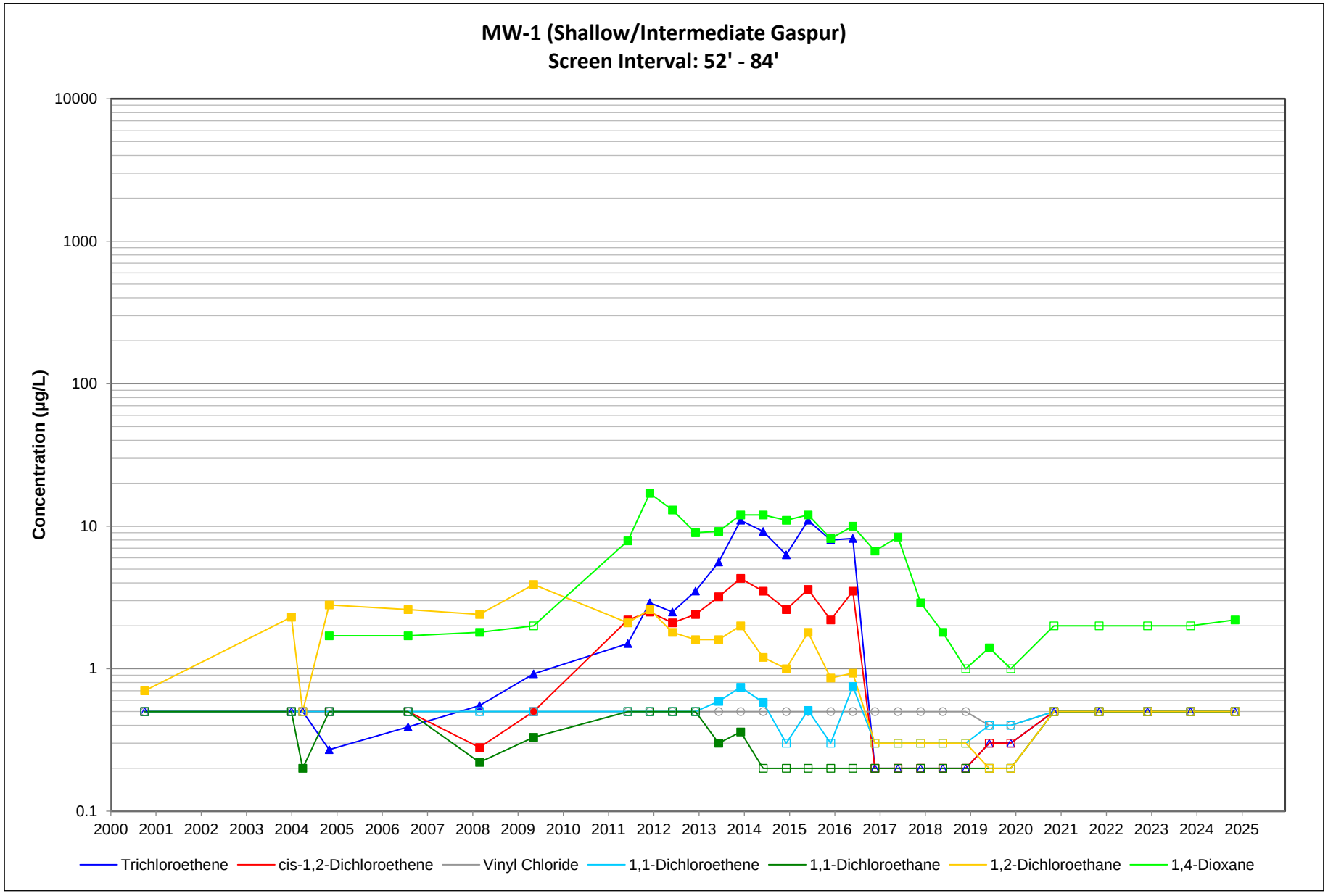
Notes:

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FEBRUARY 2025



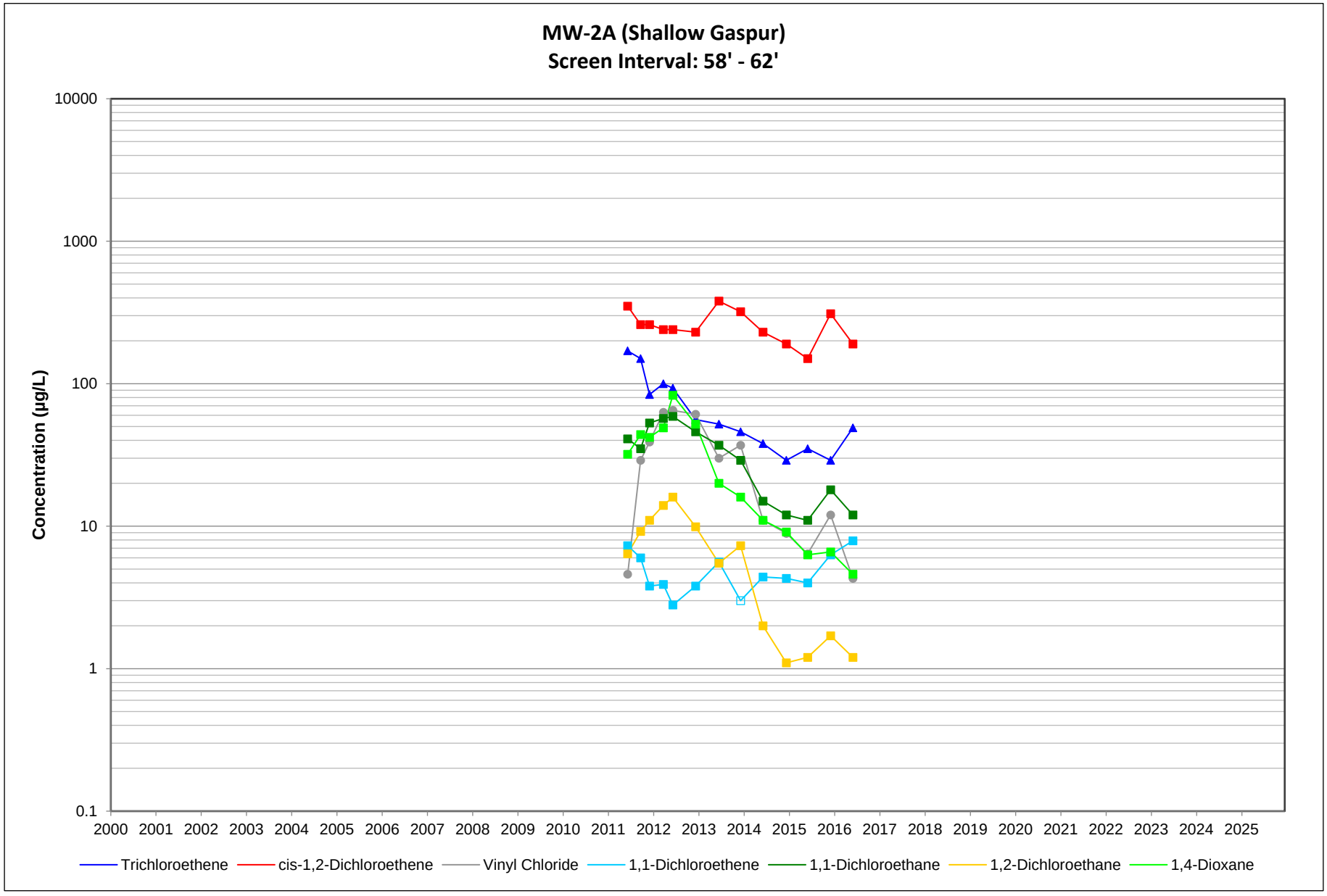
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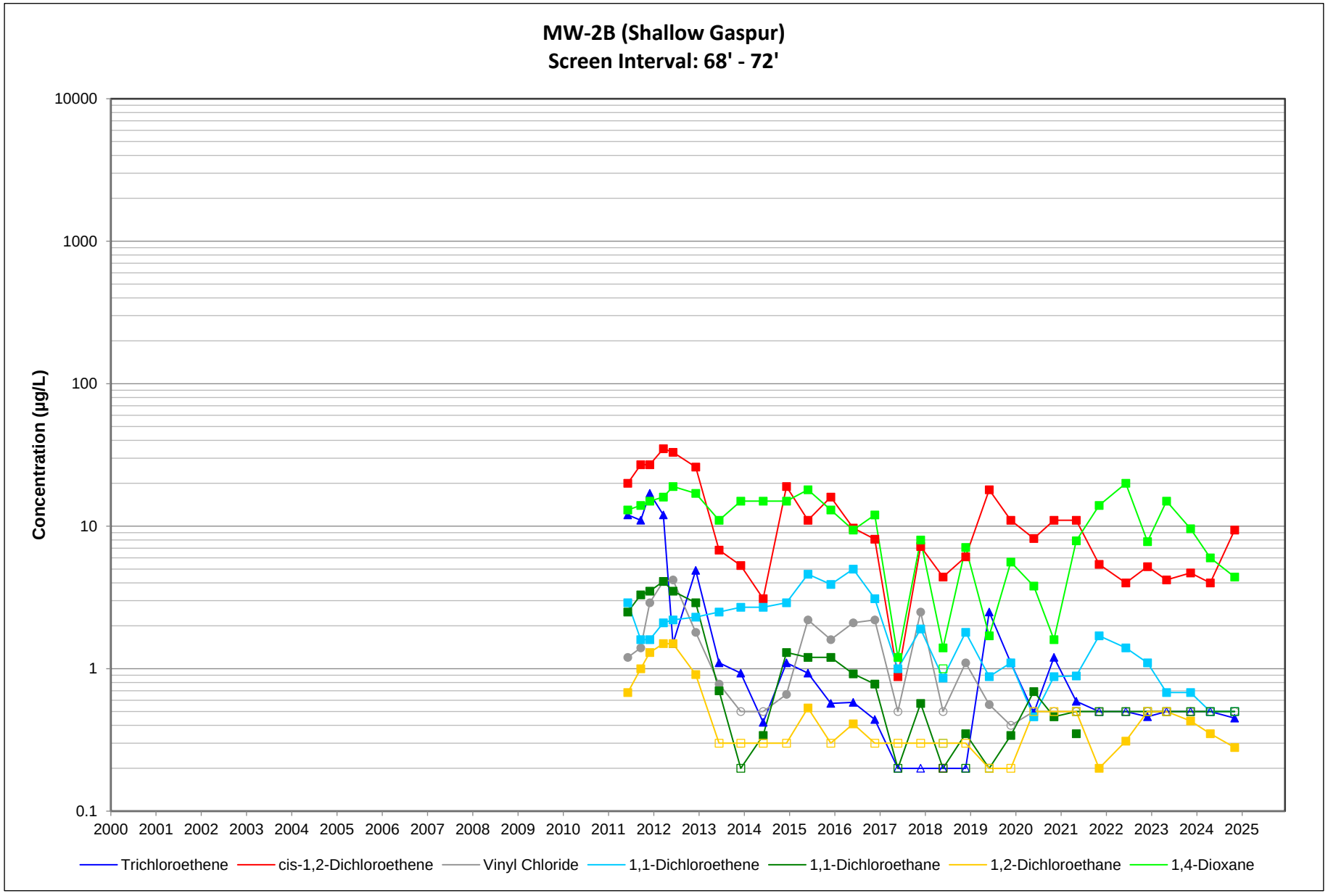
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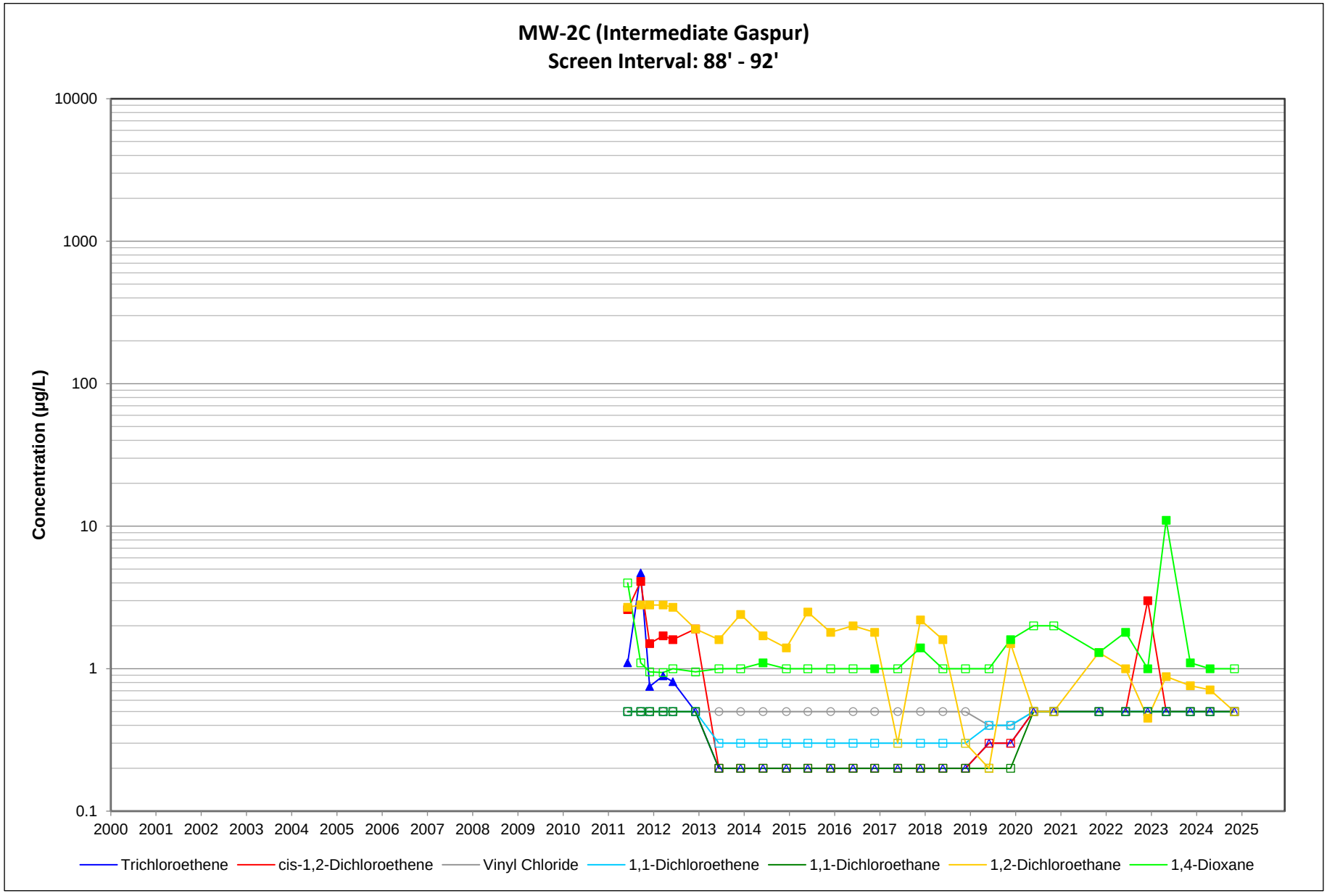
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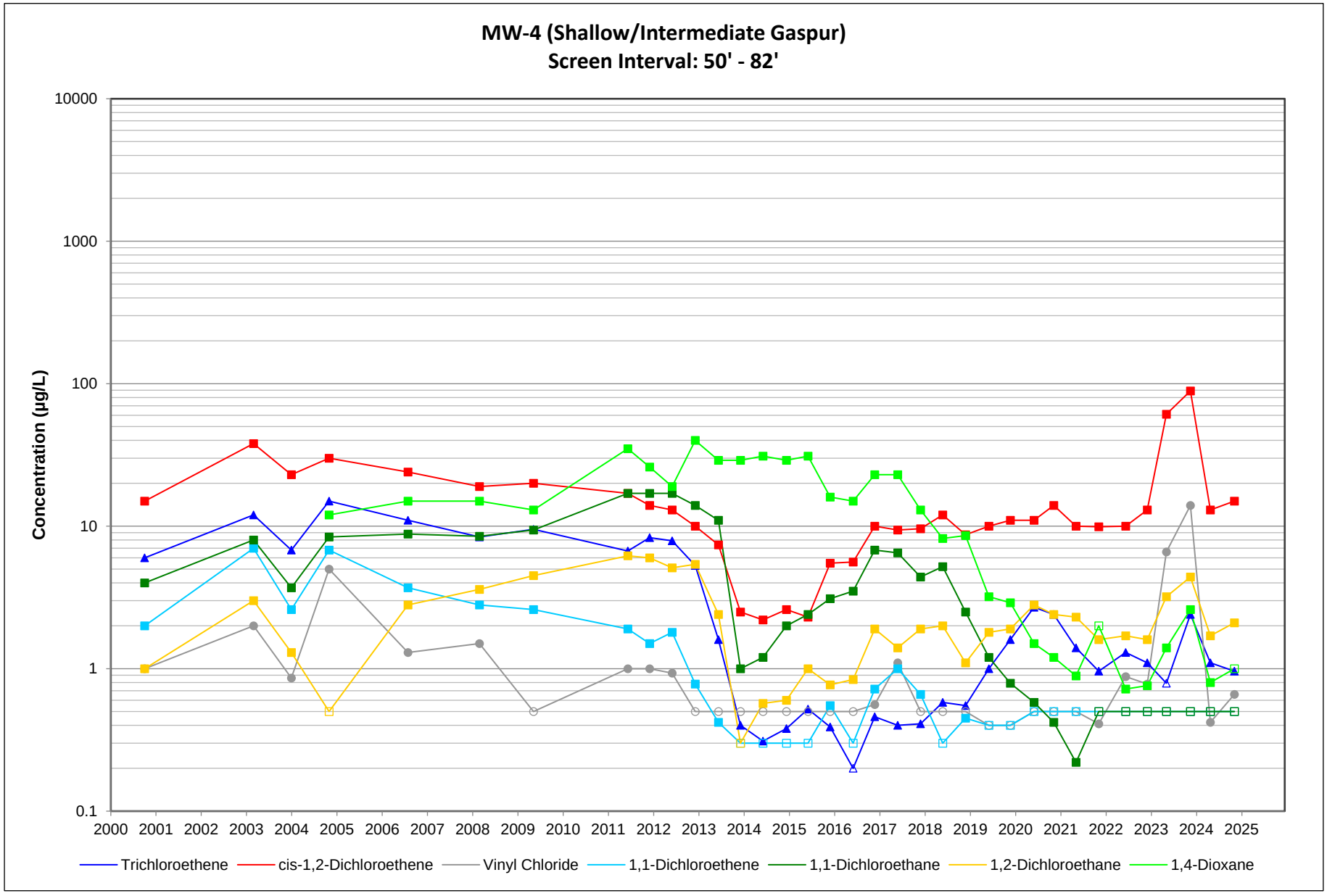
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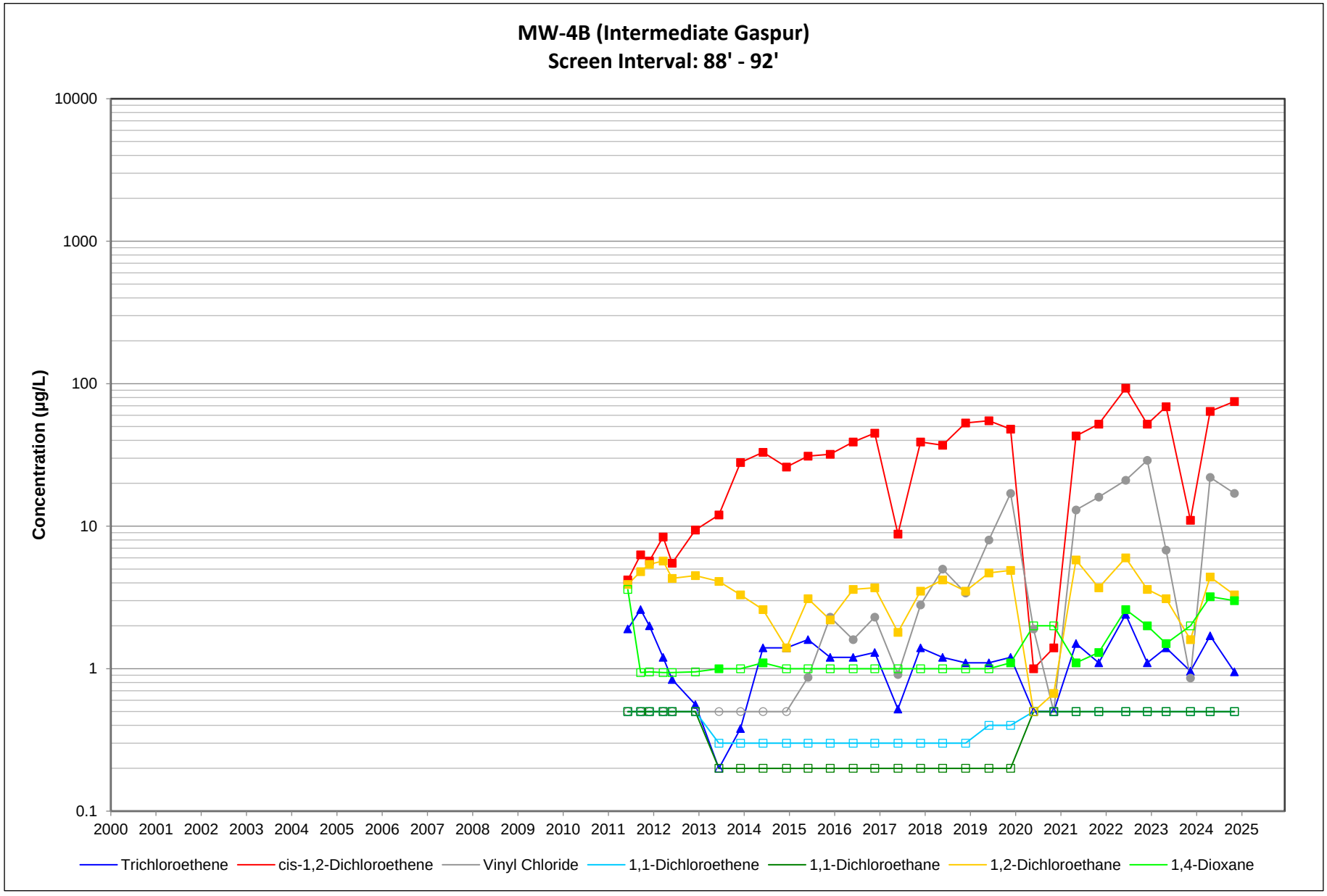
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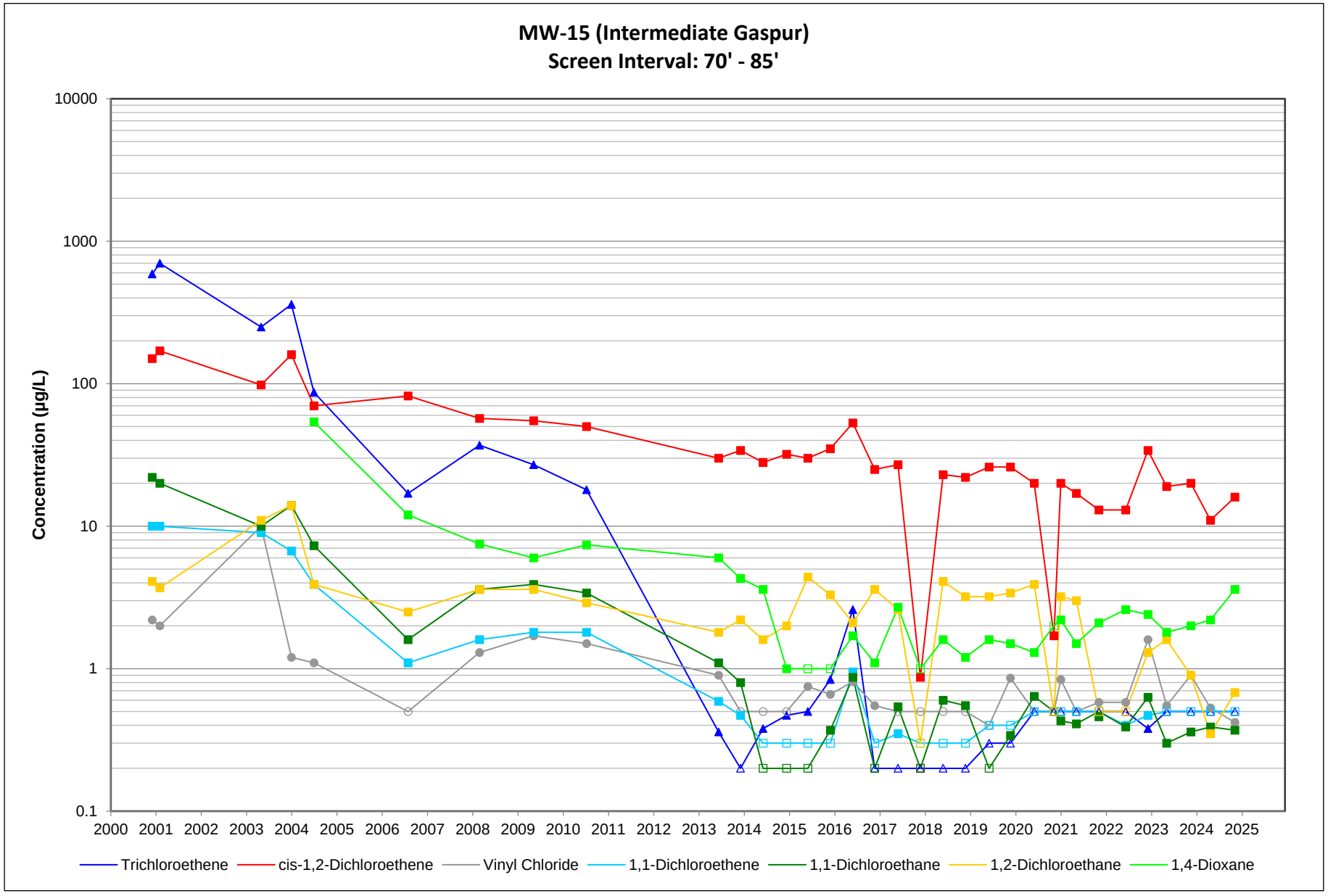
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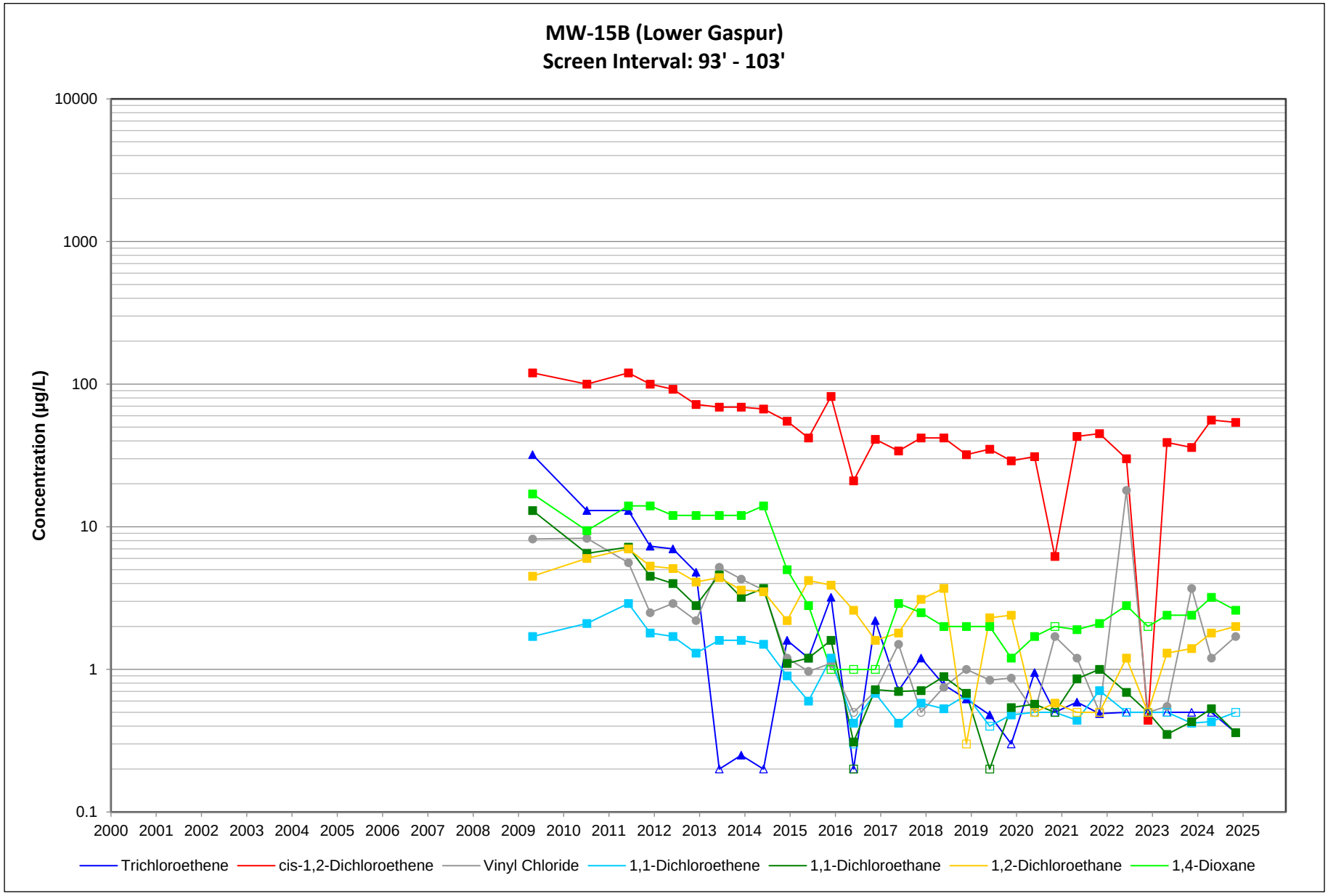
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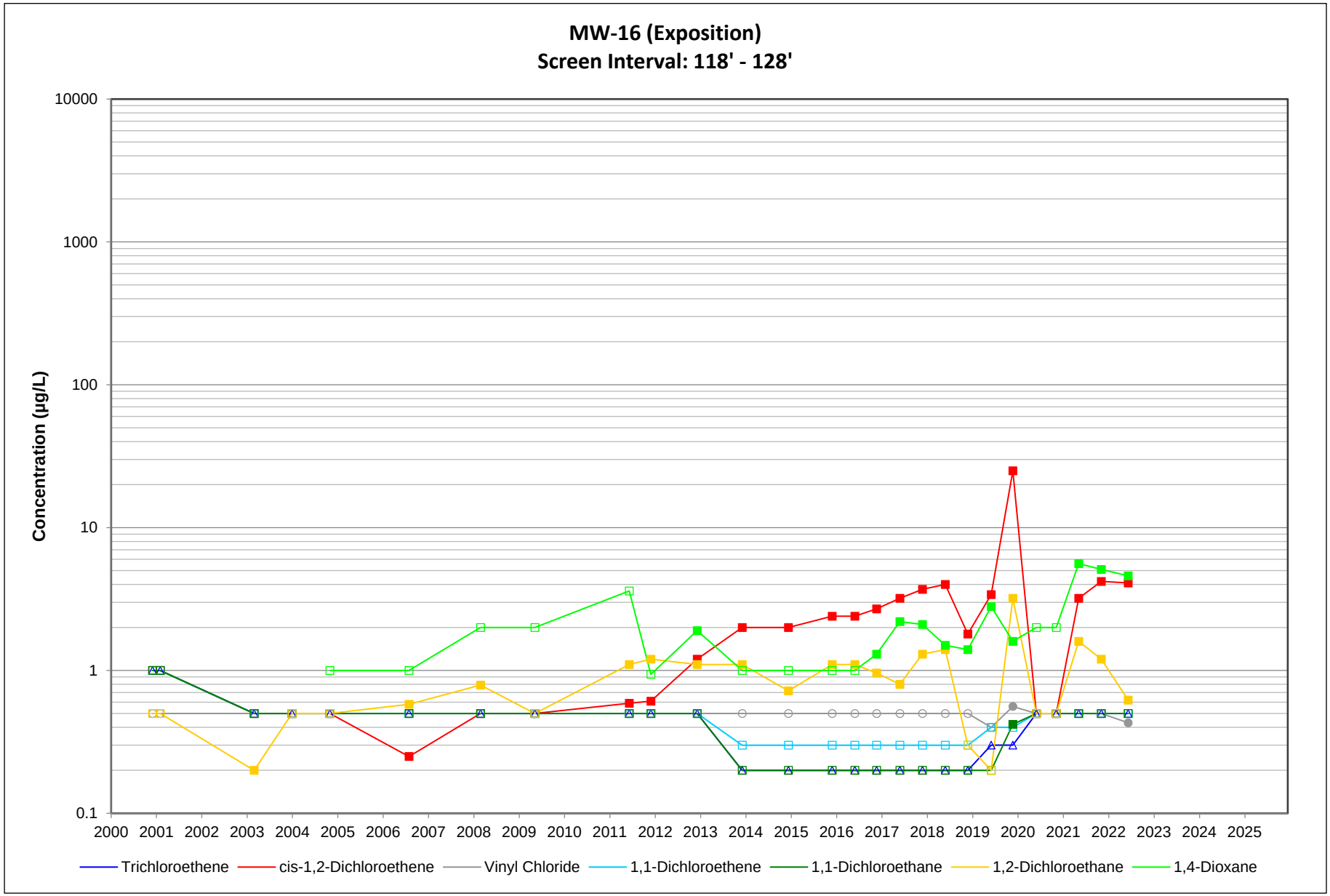
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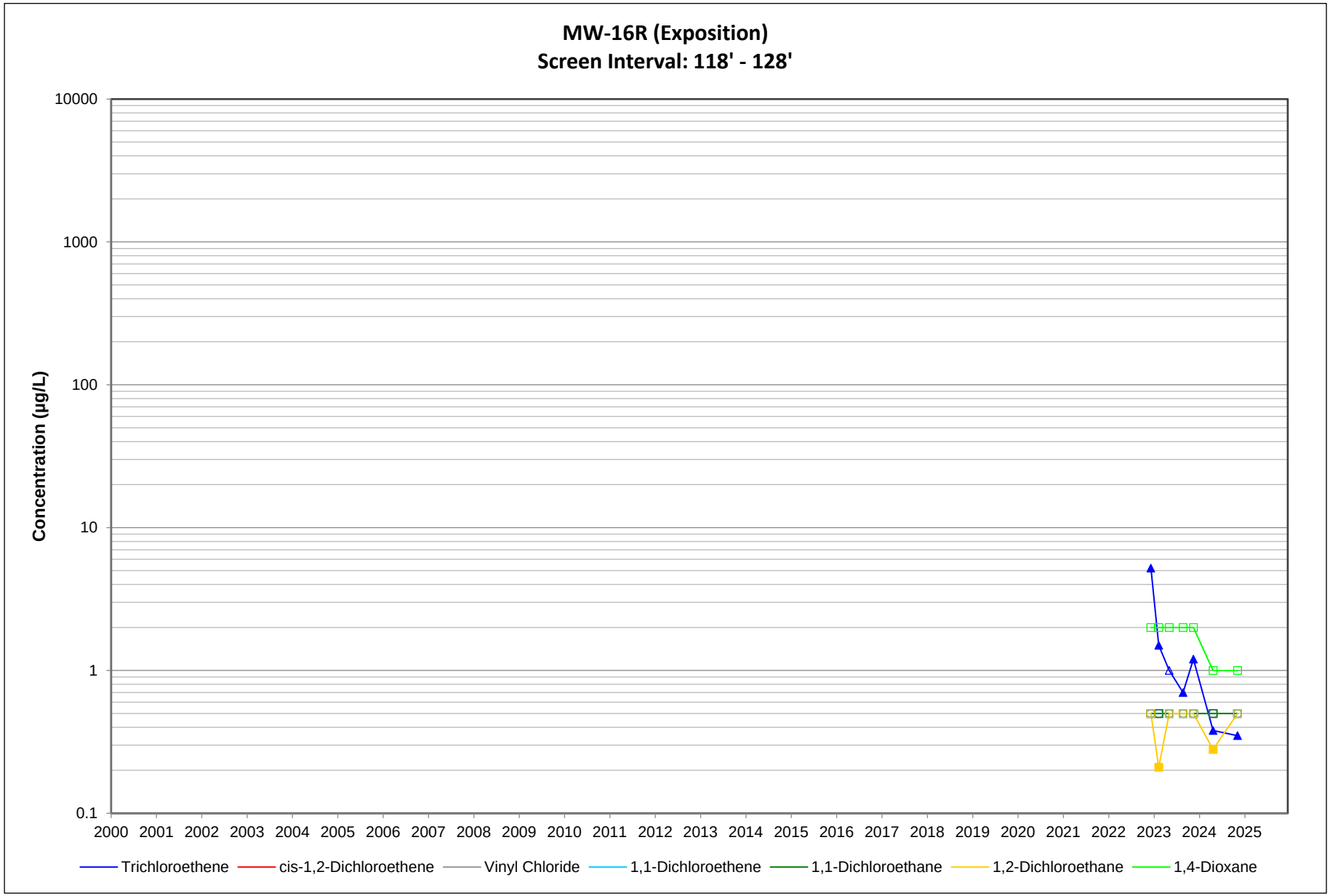
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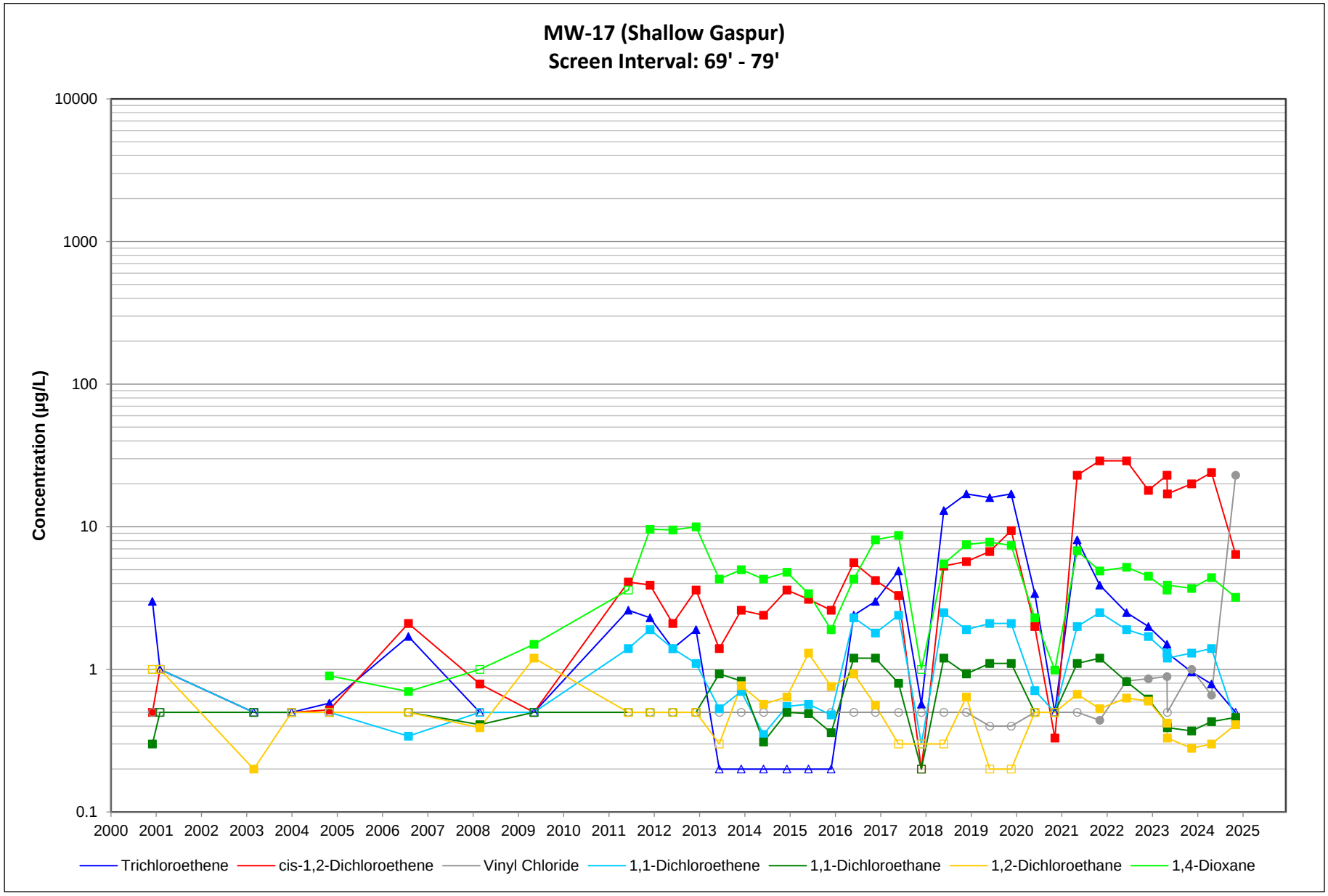
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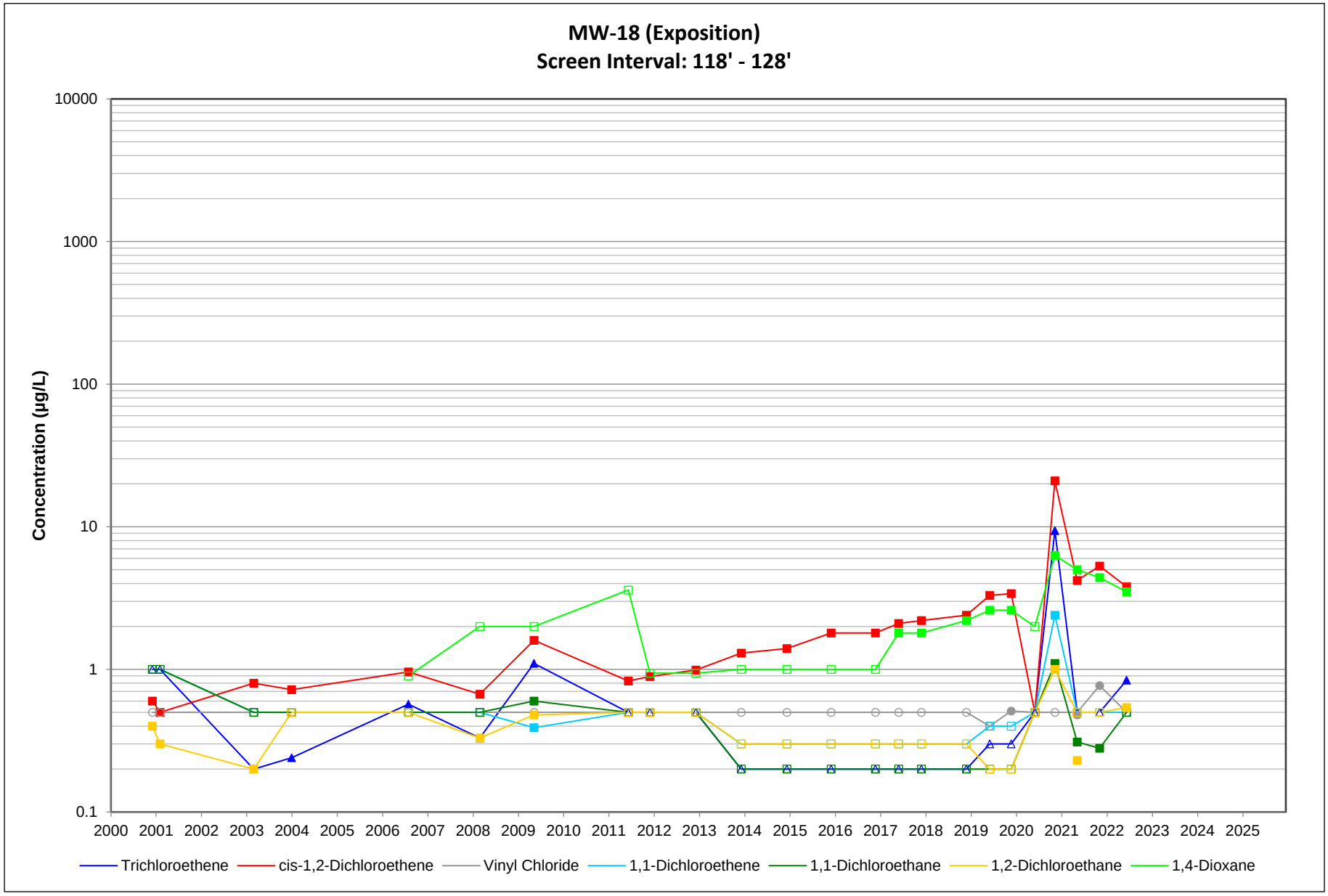
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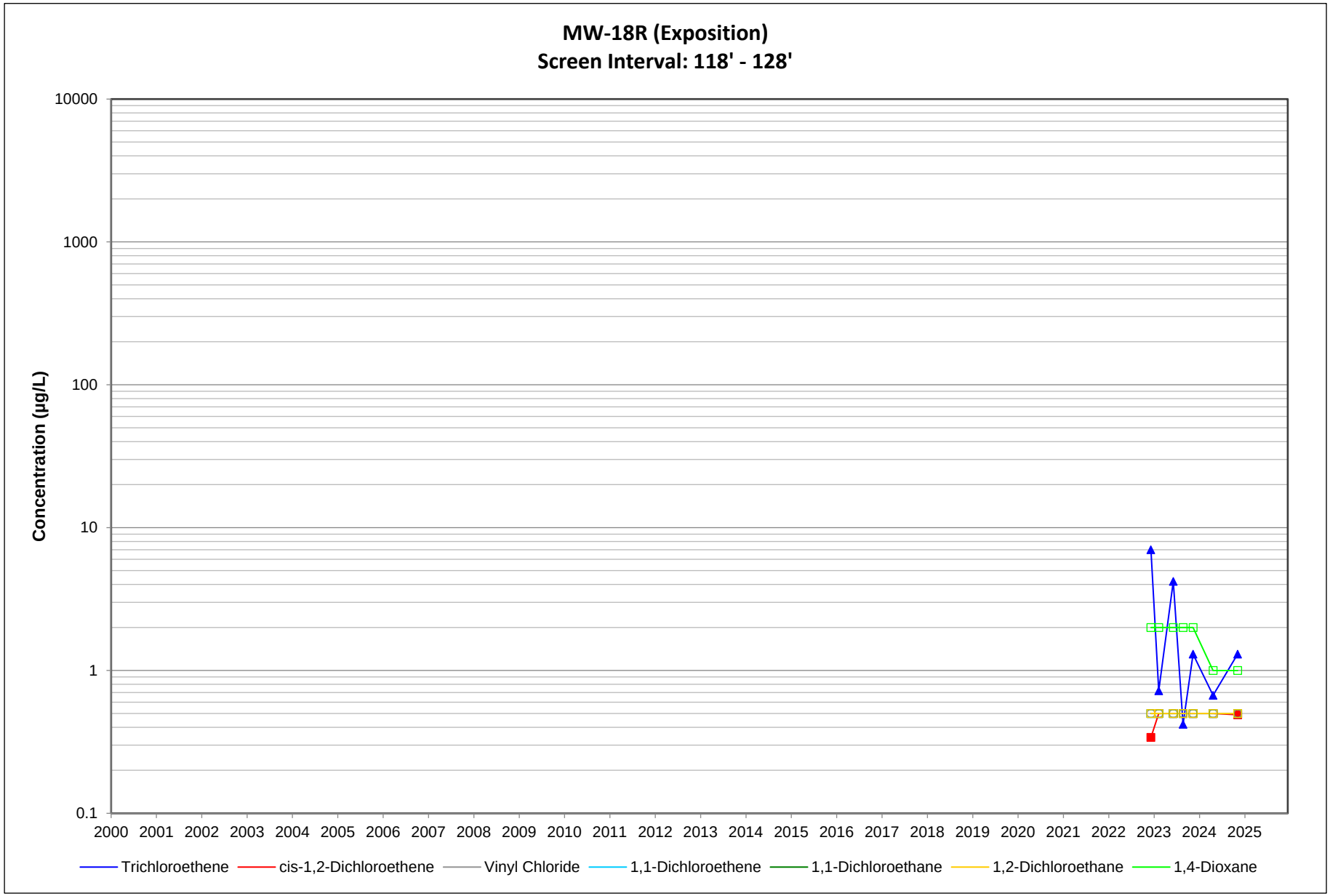
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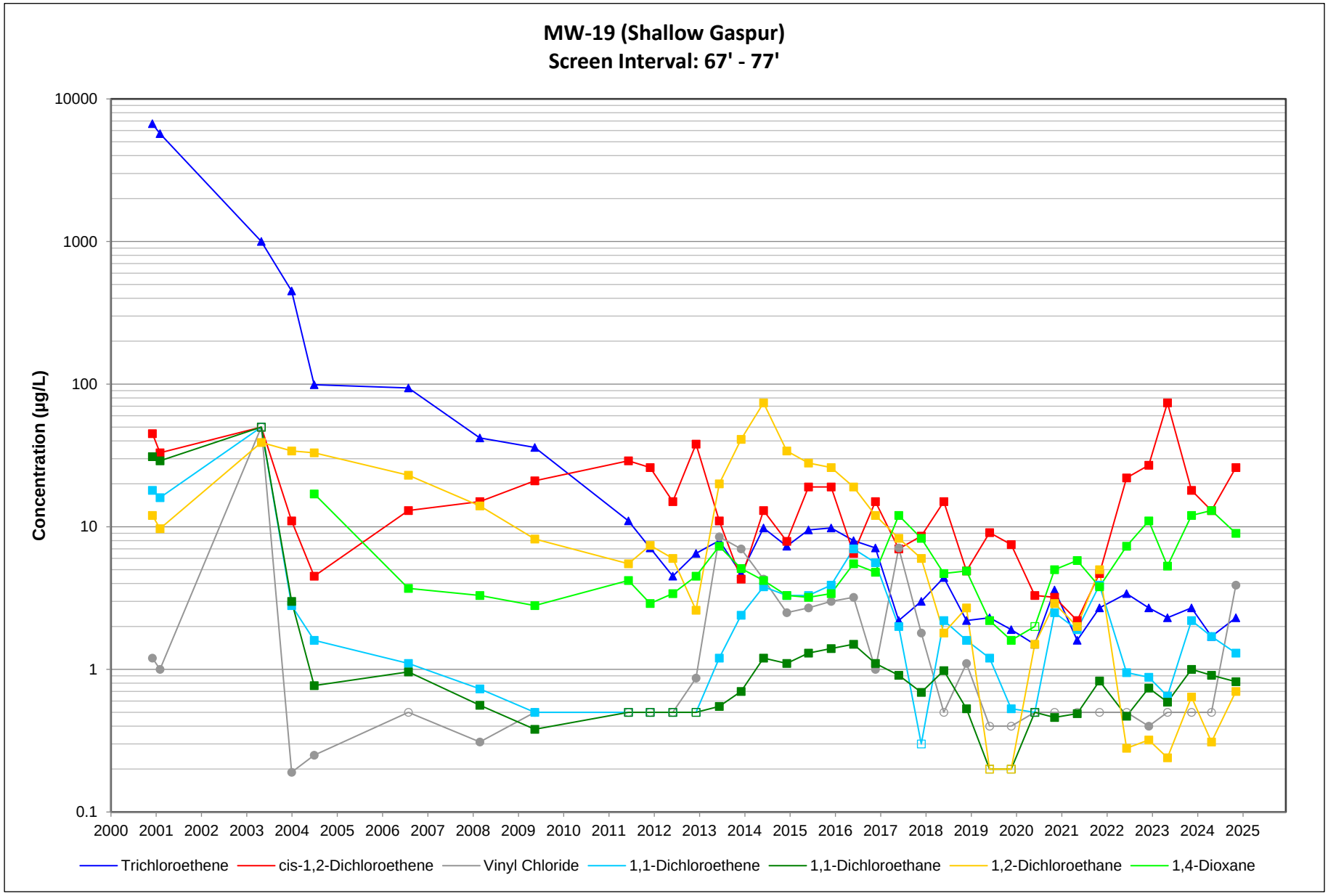
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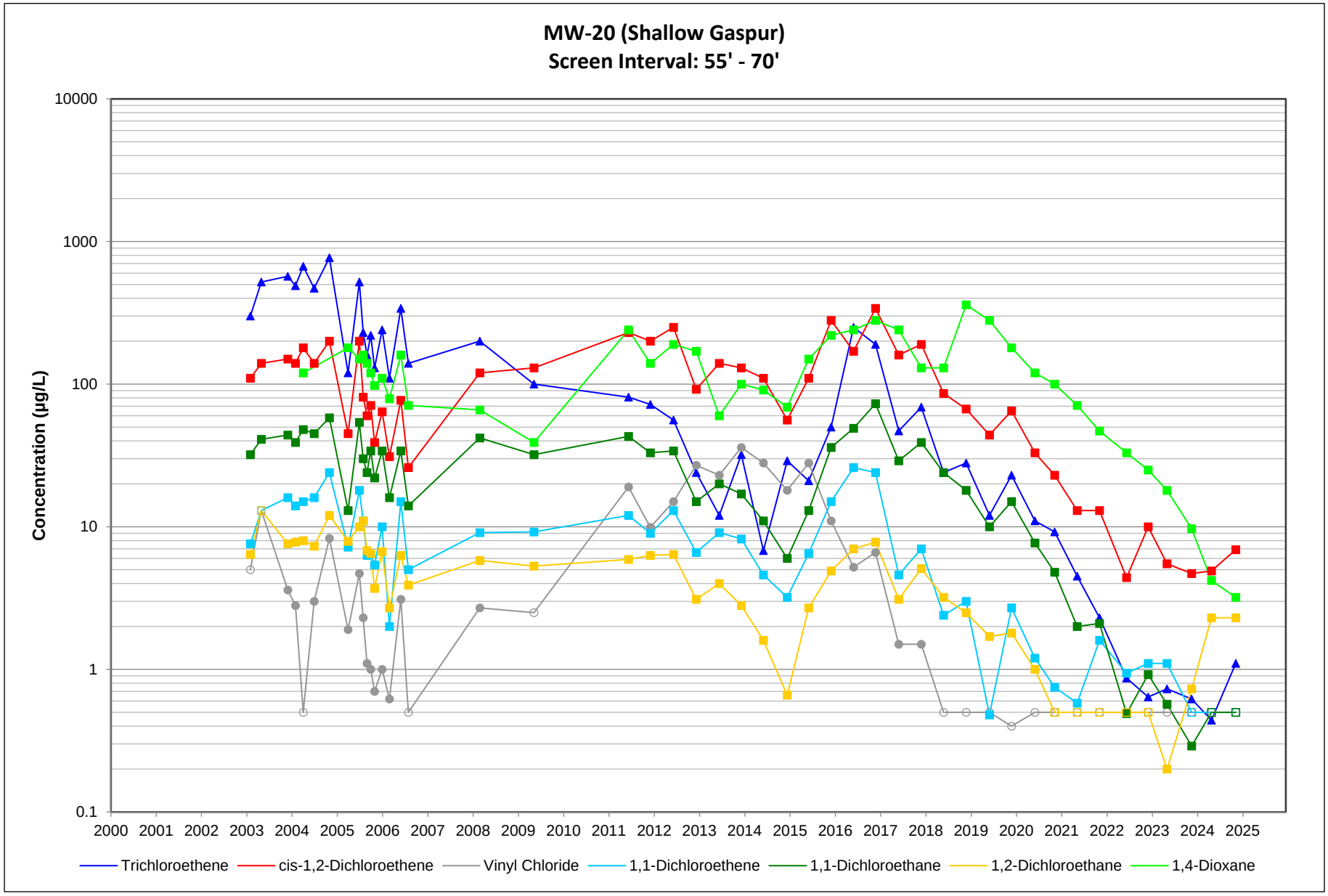
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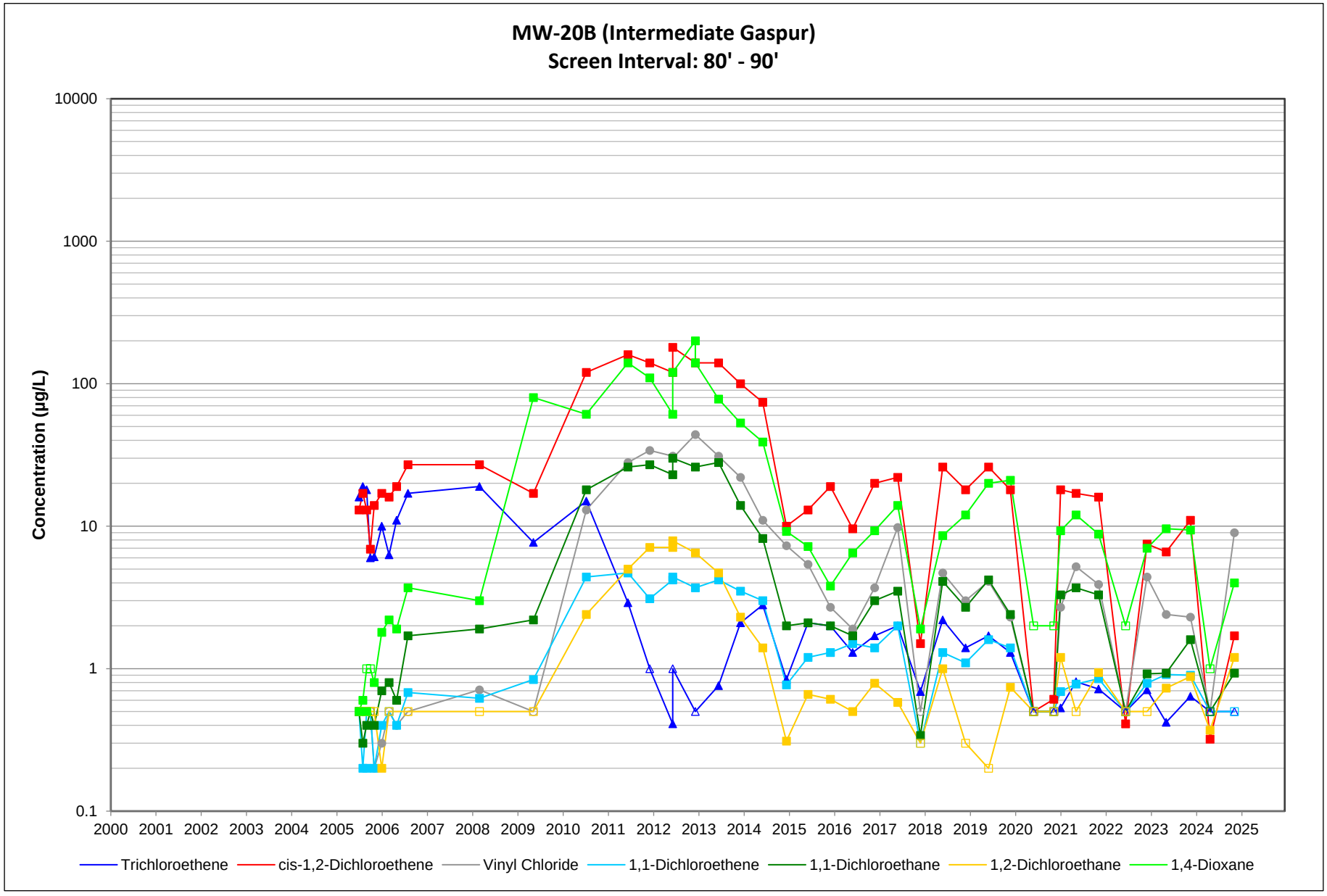
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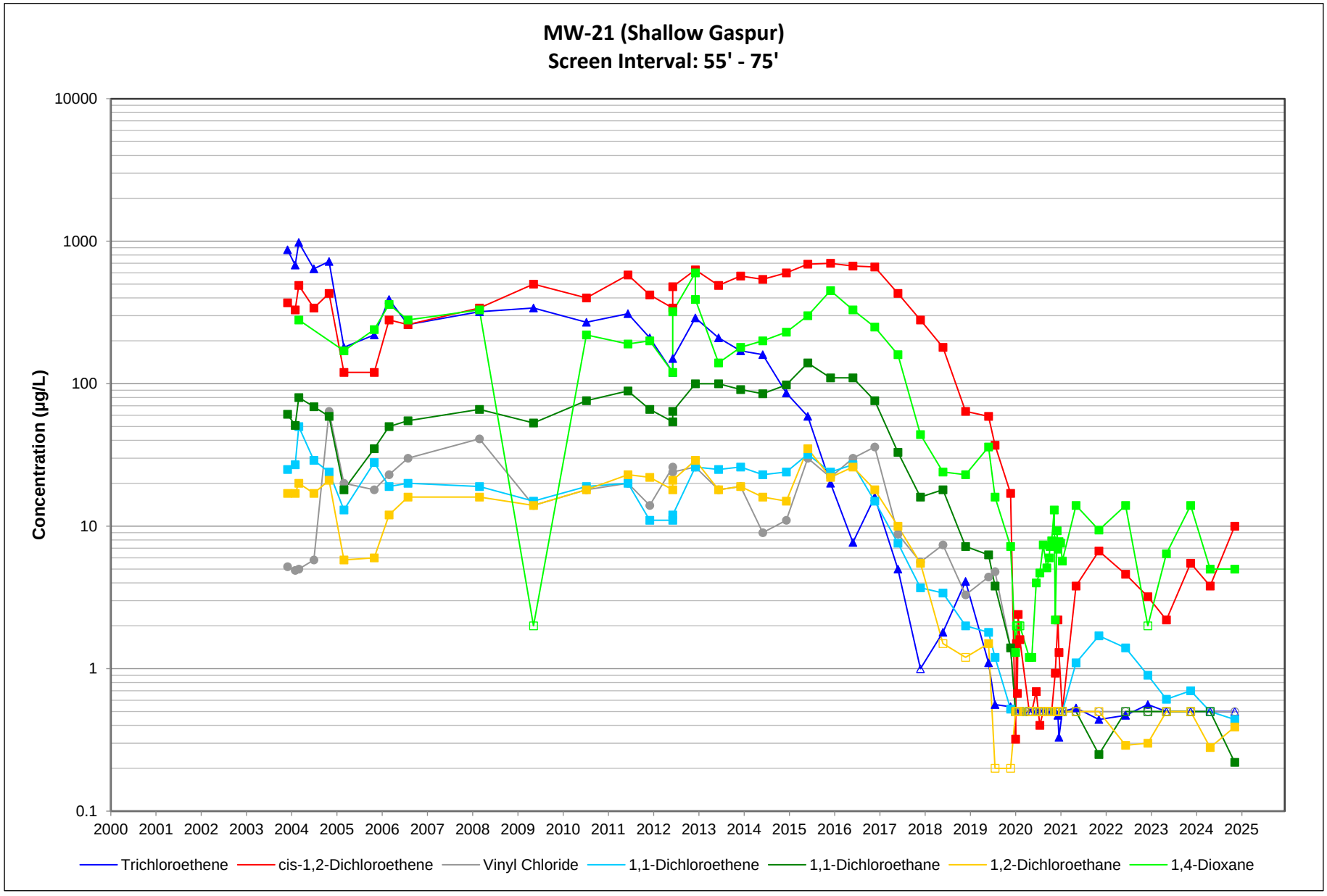
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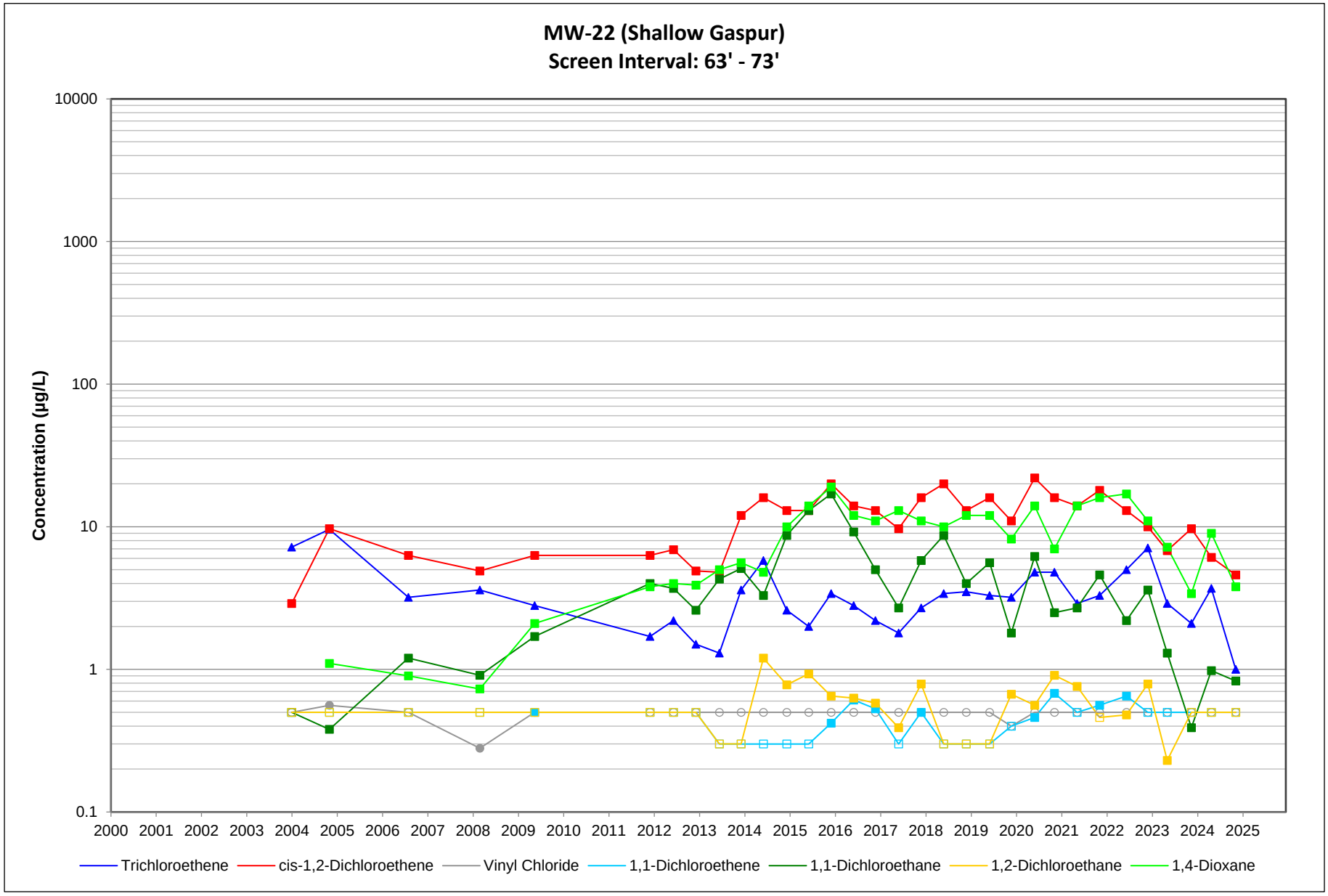
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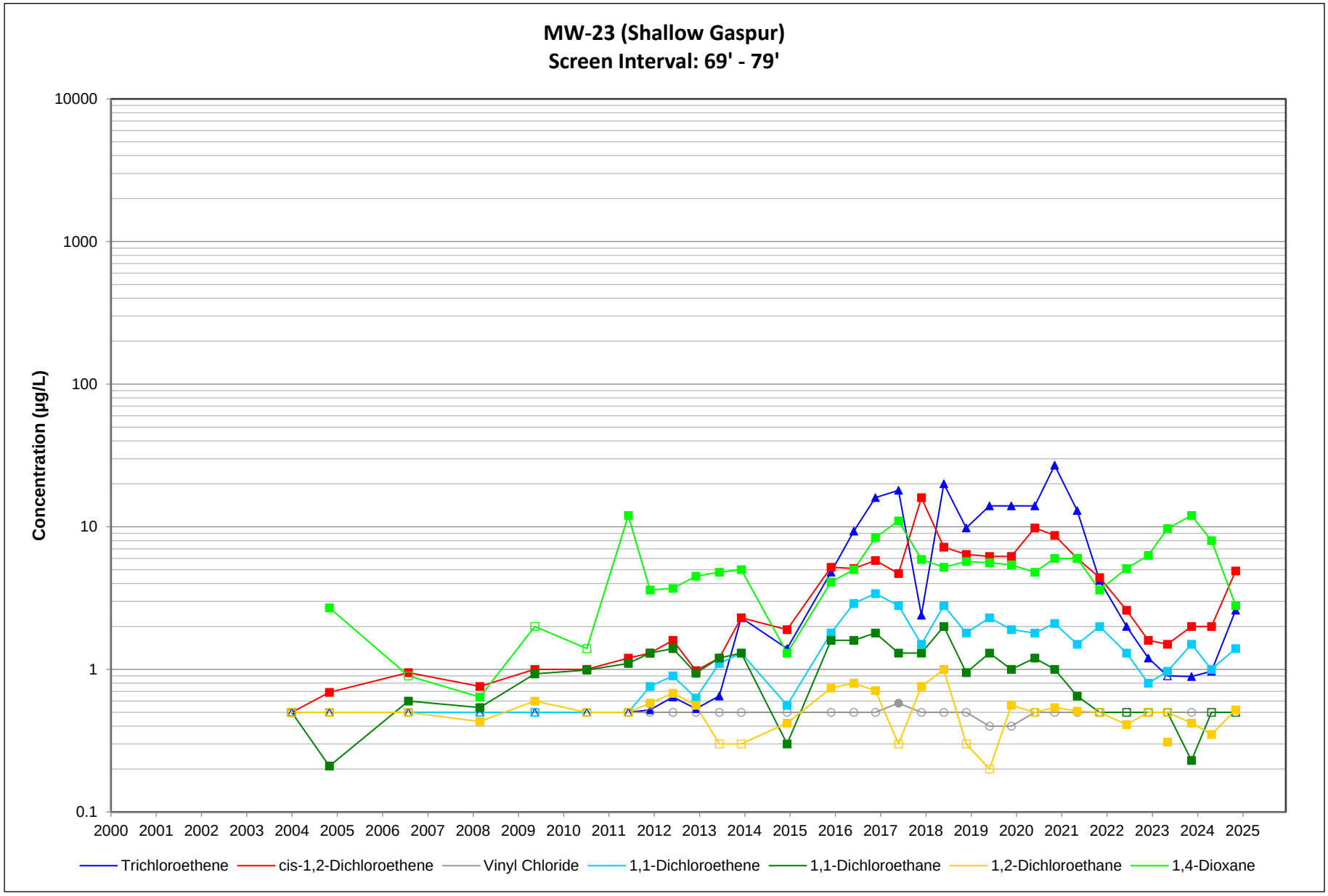
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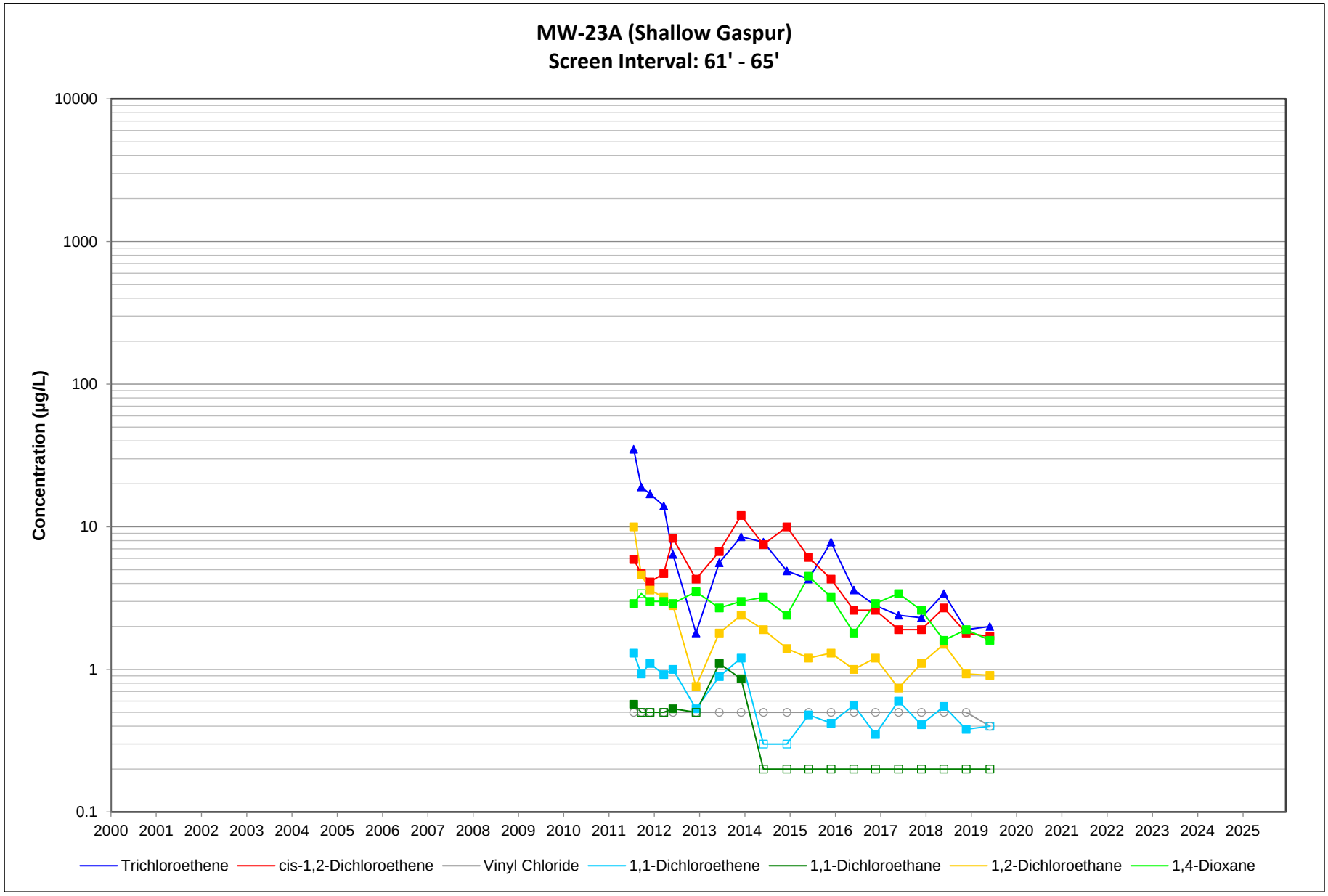
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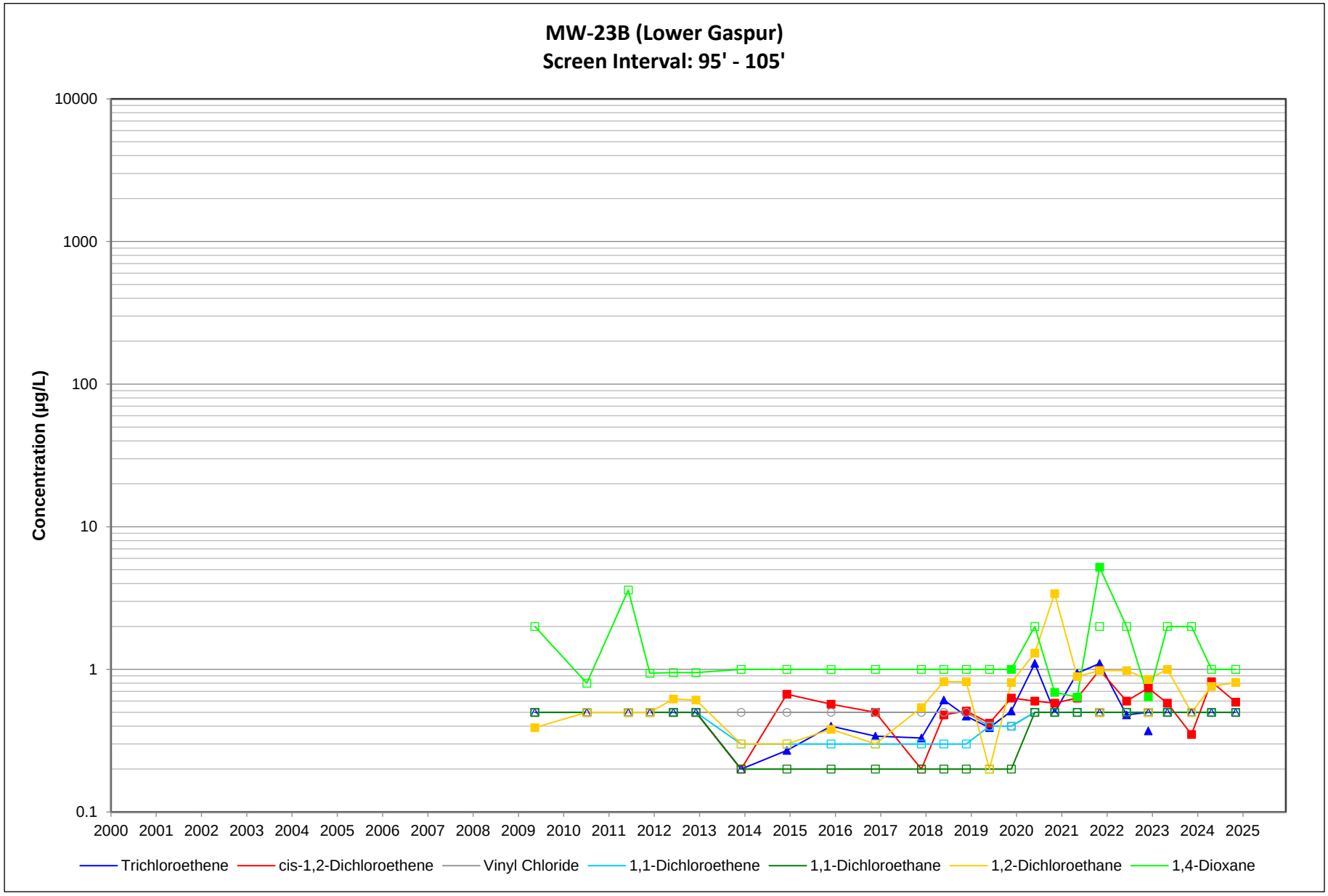
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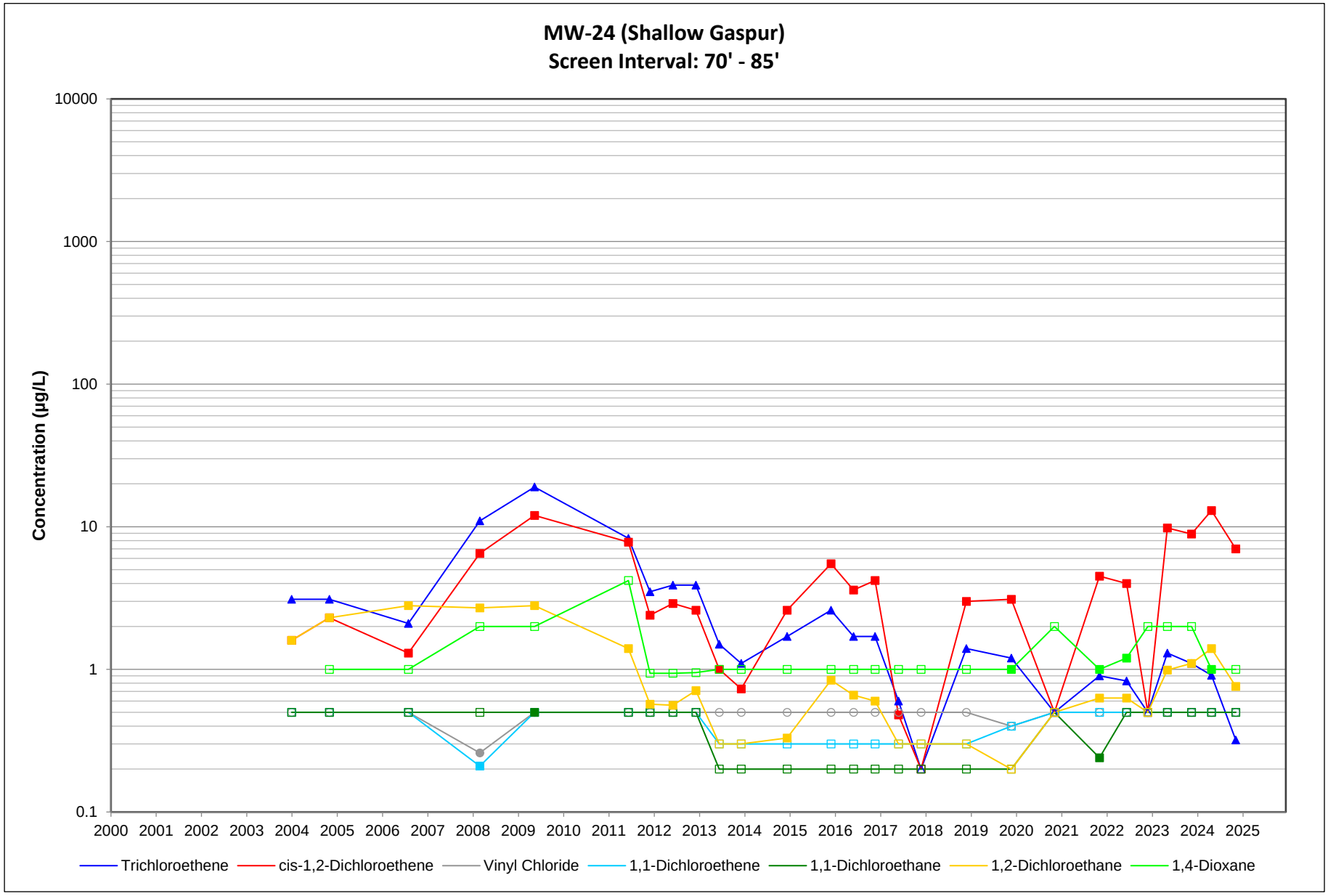
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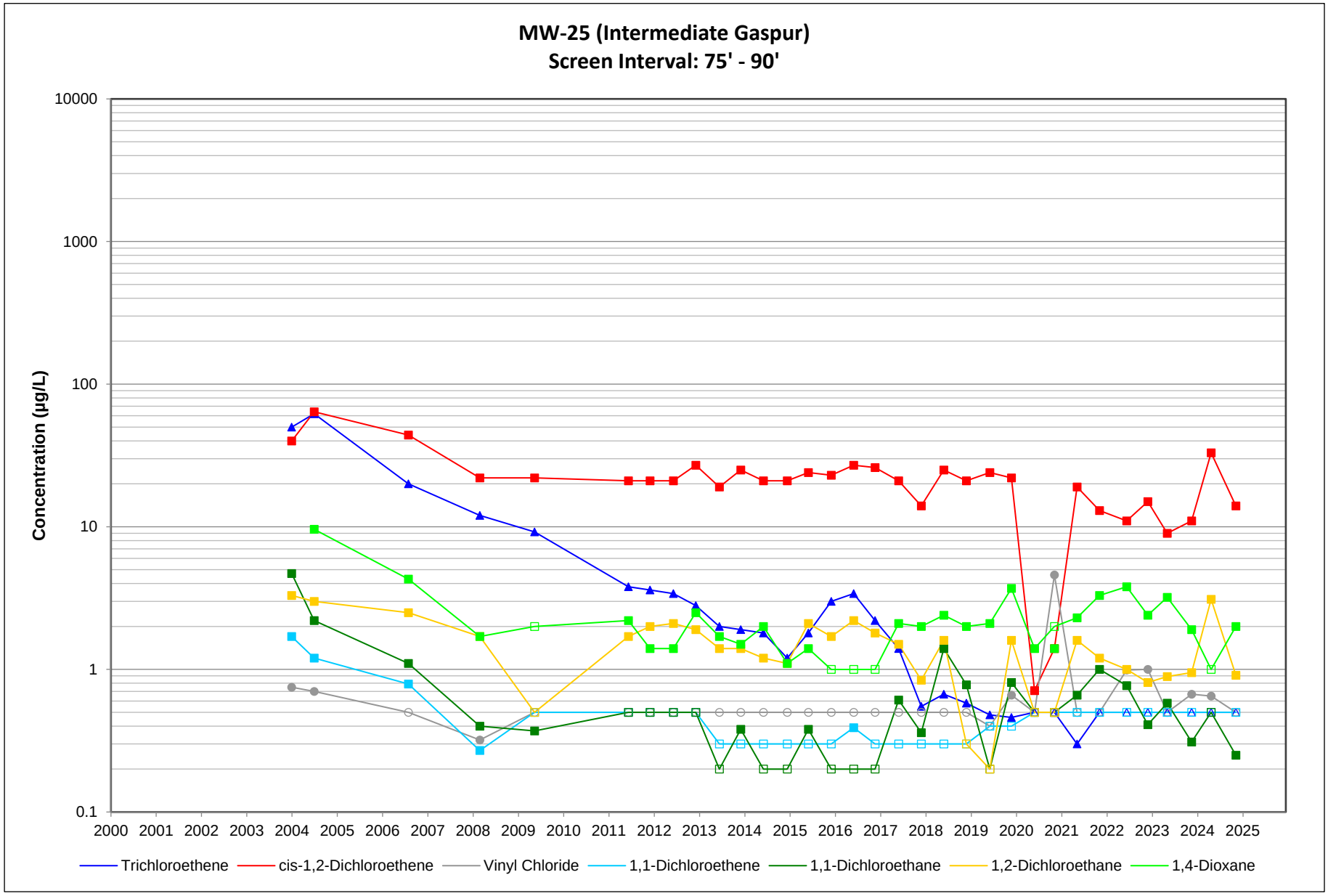
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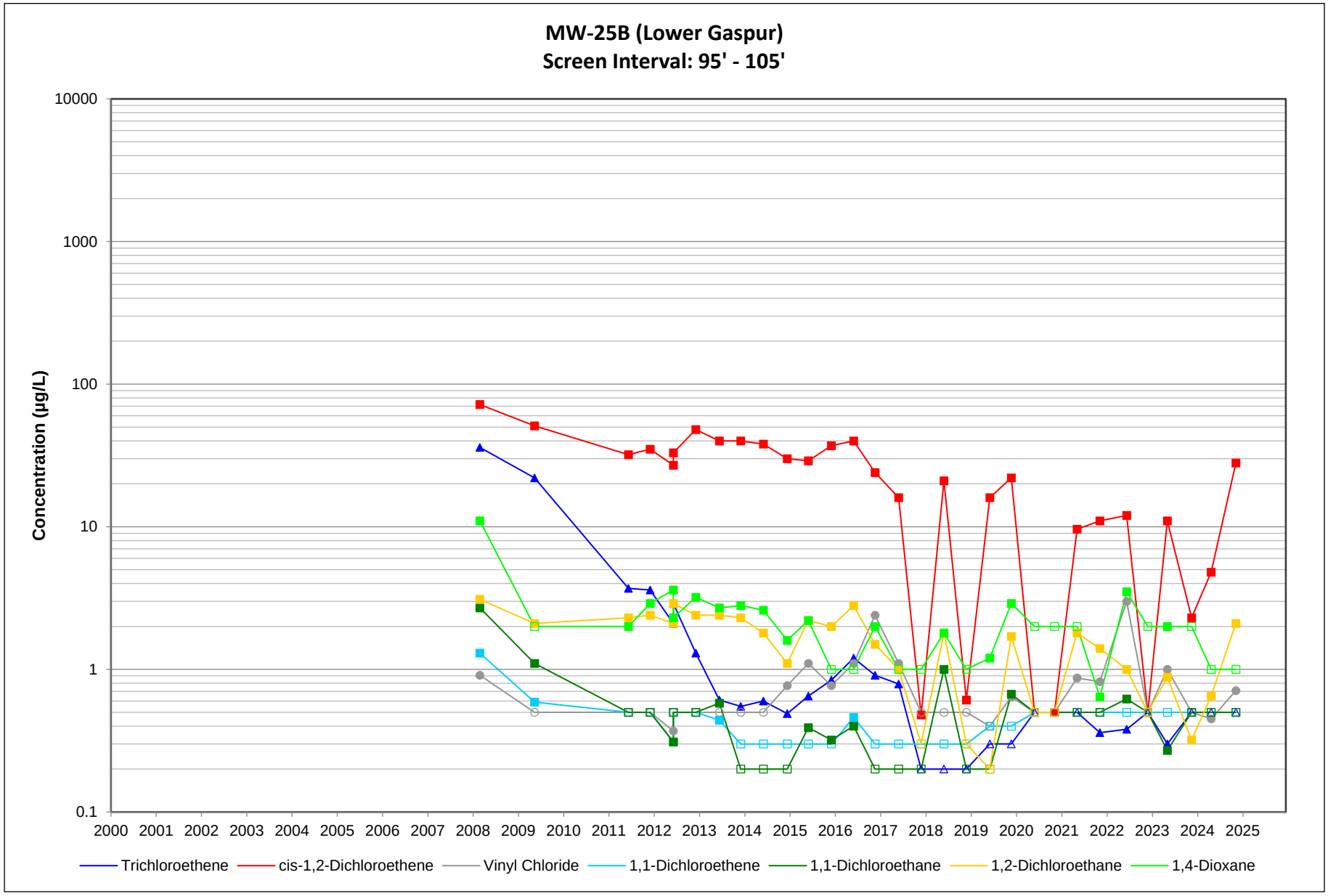
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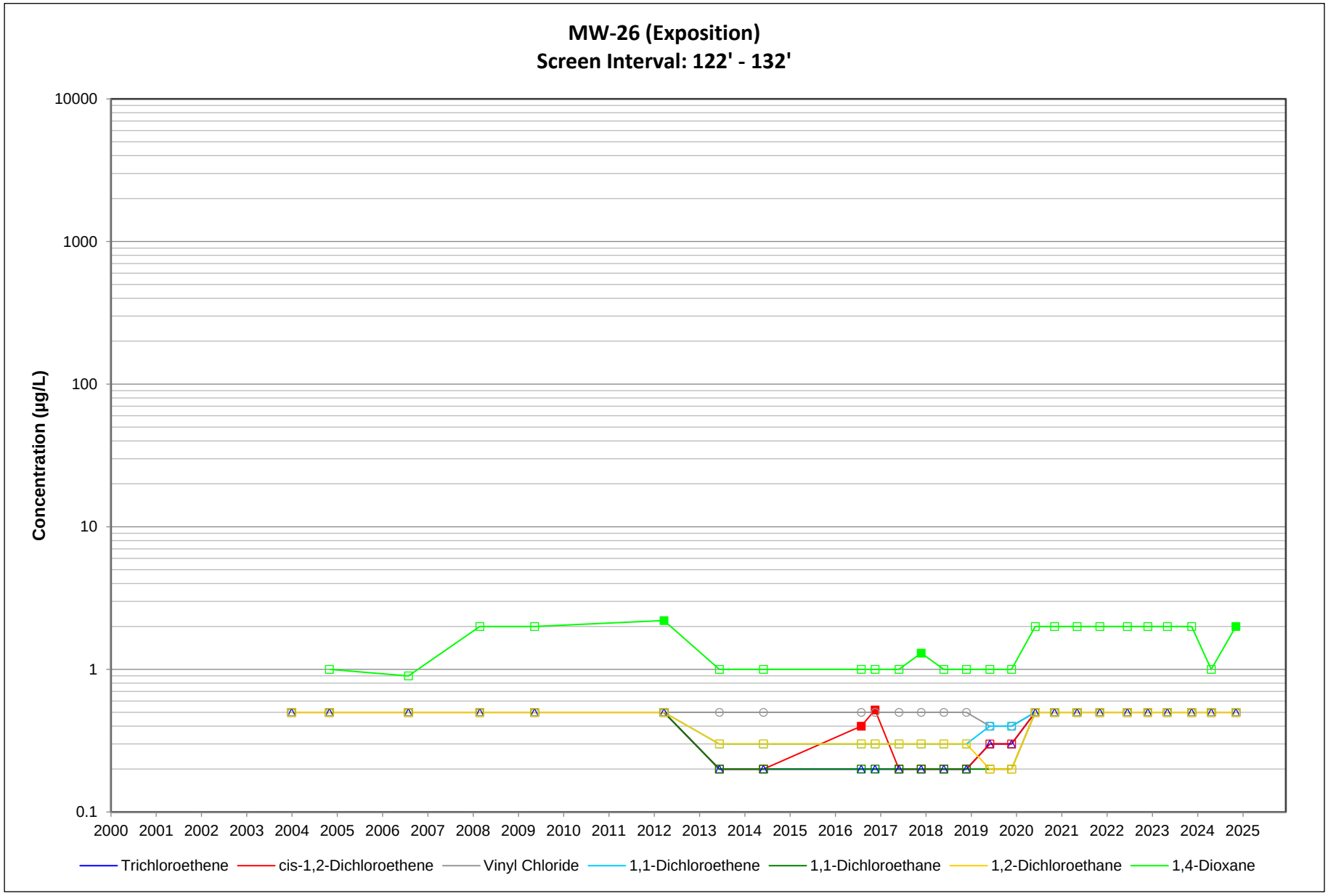
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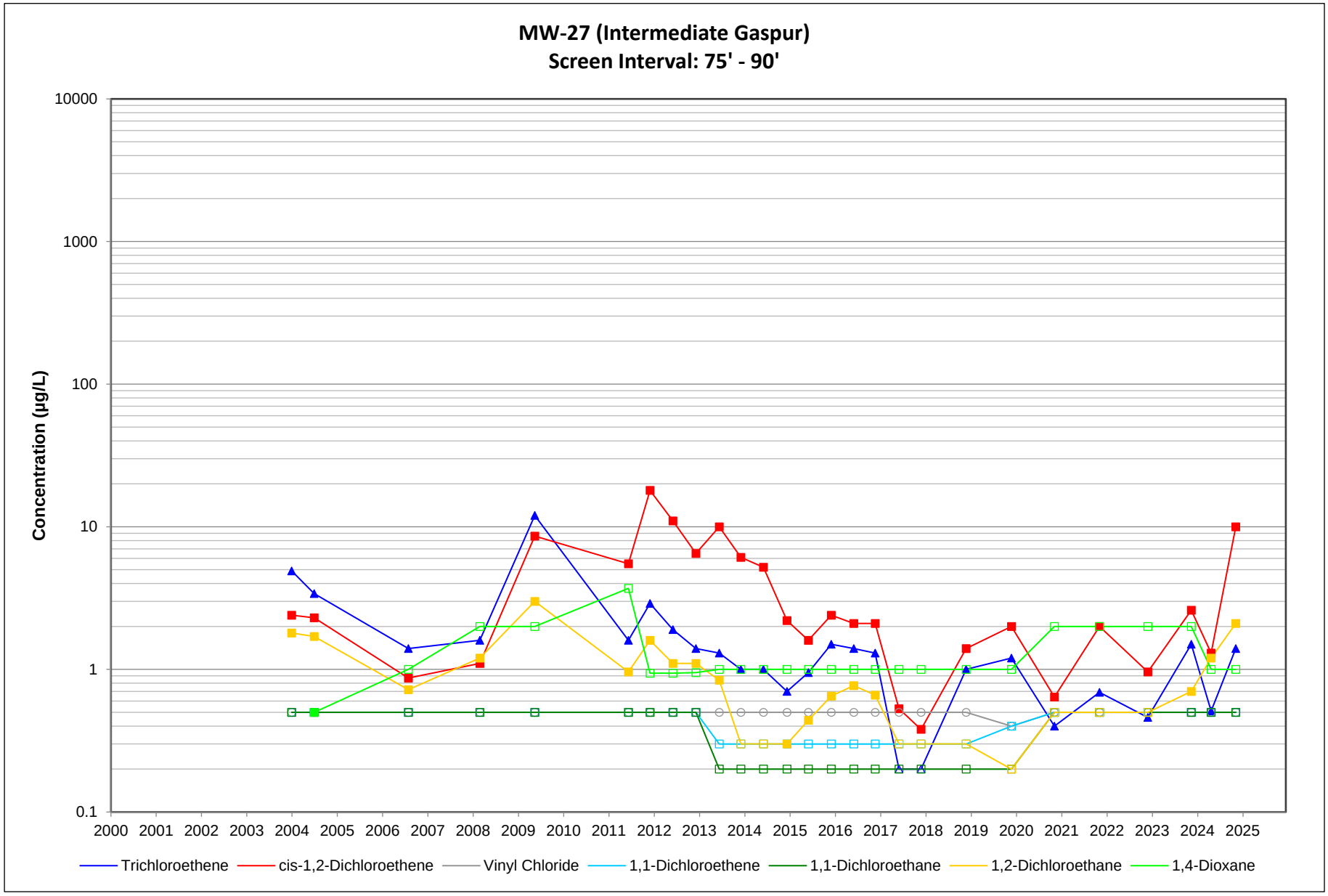
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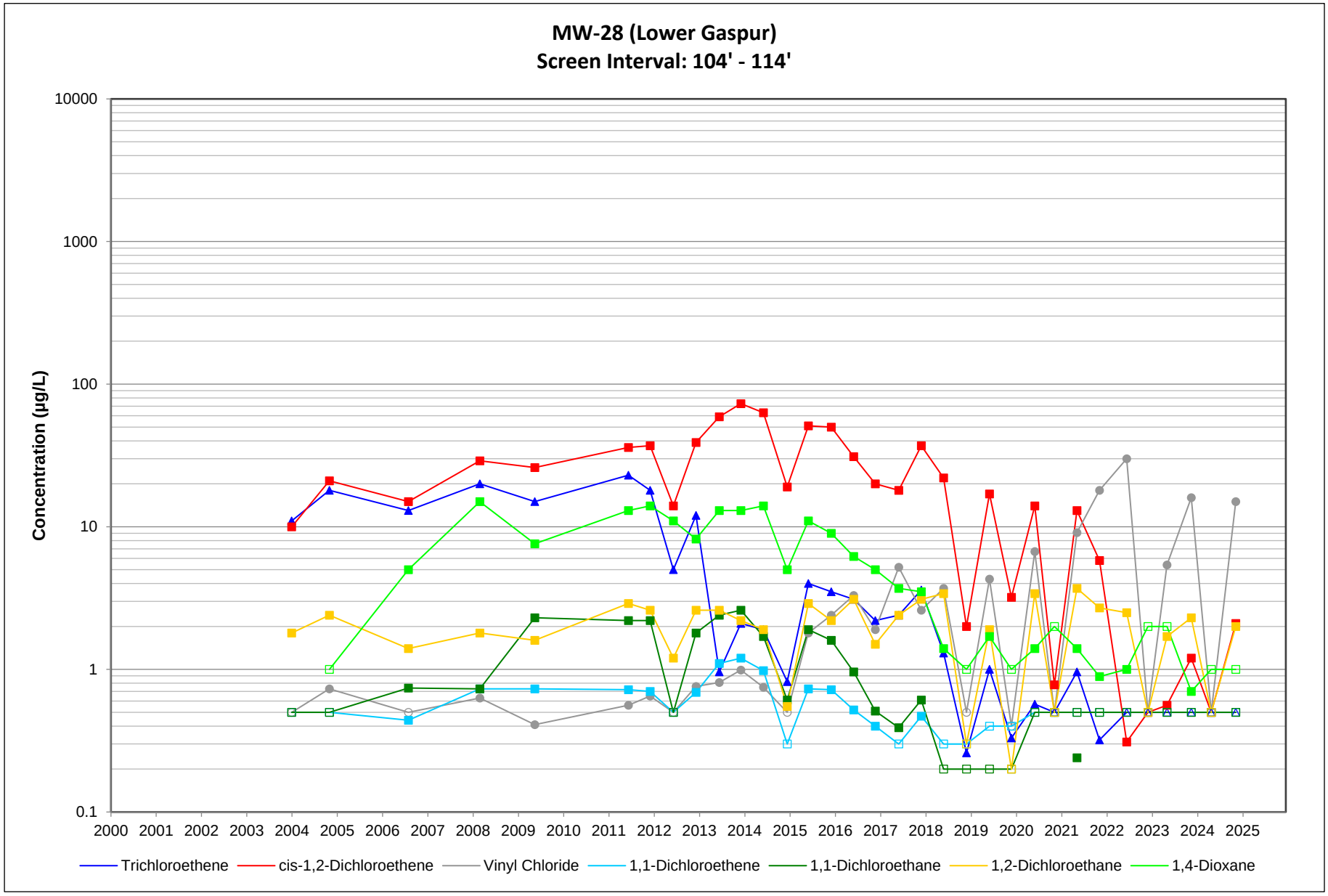
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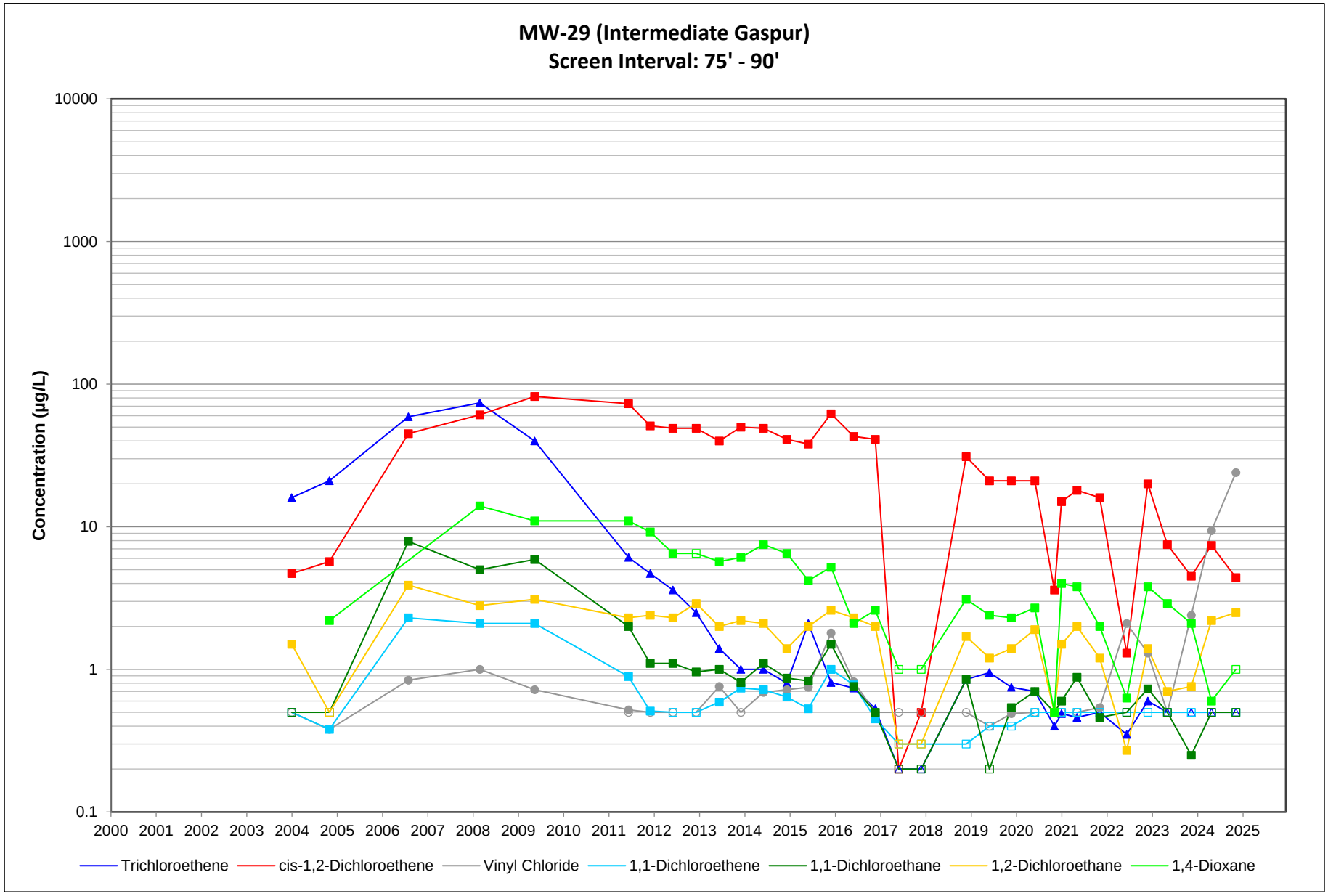
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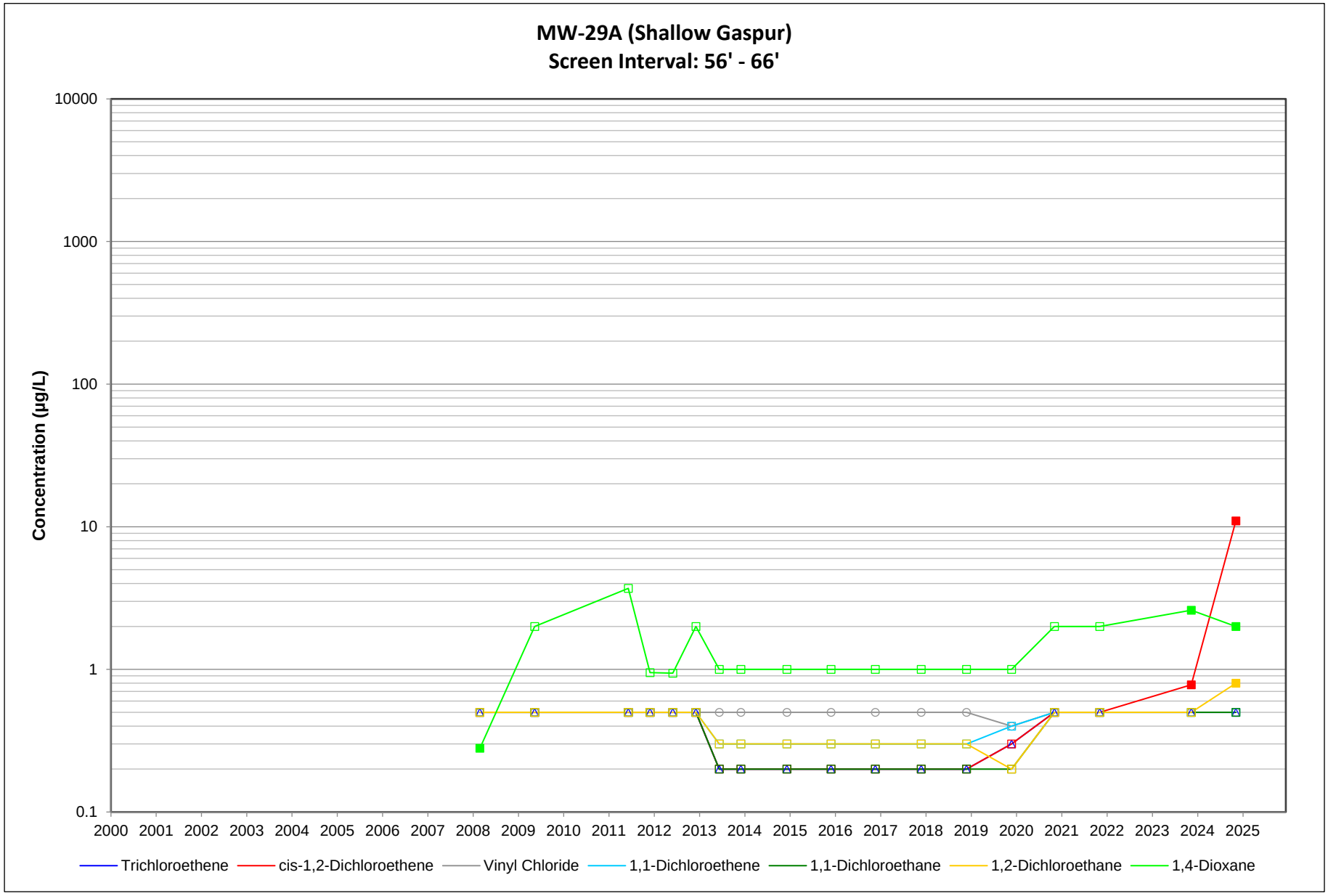
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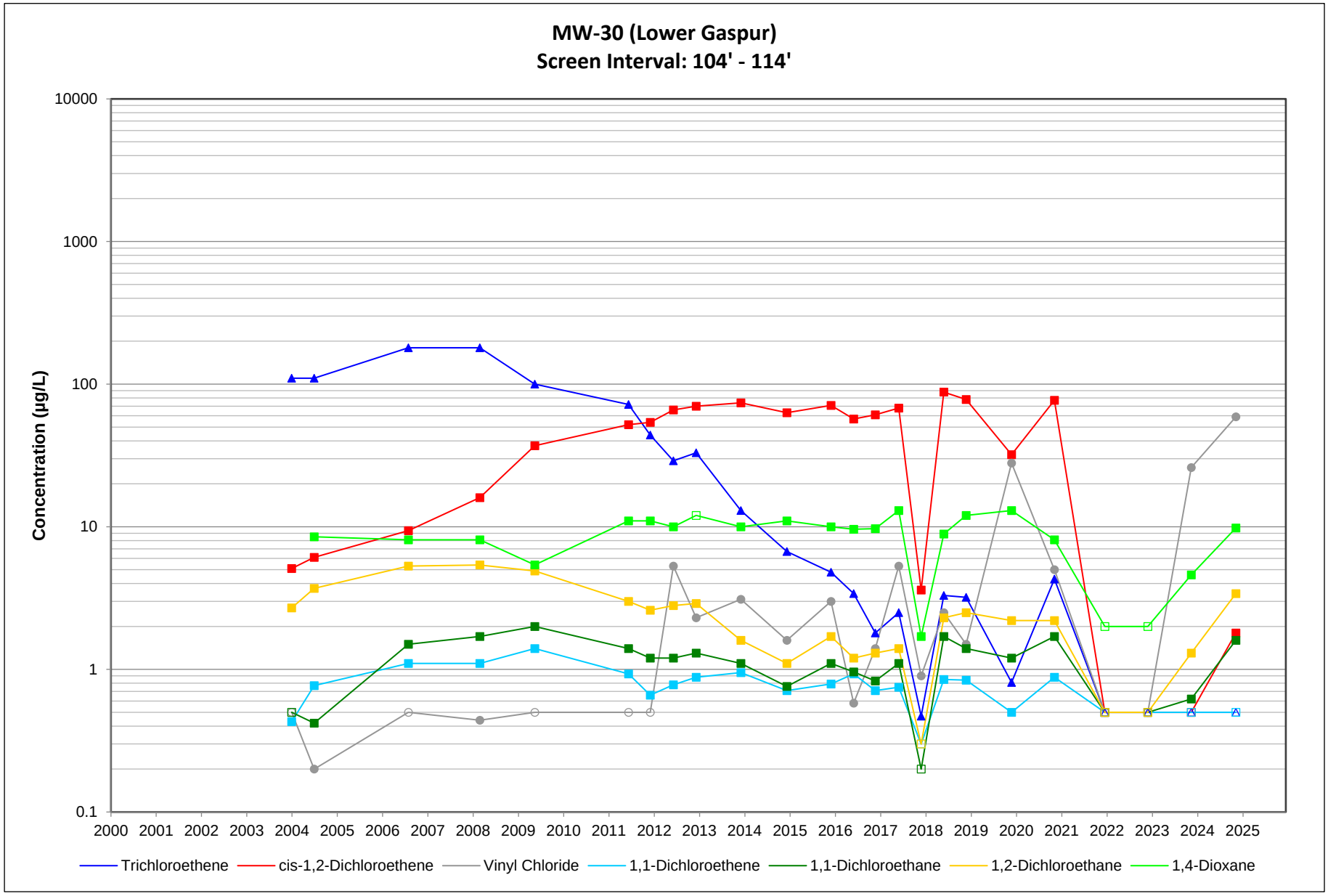
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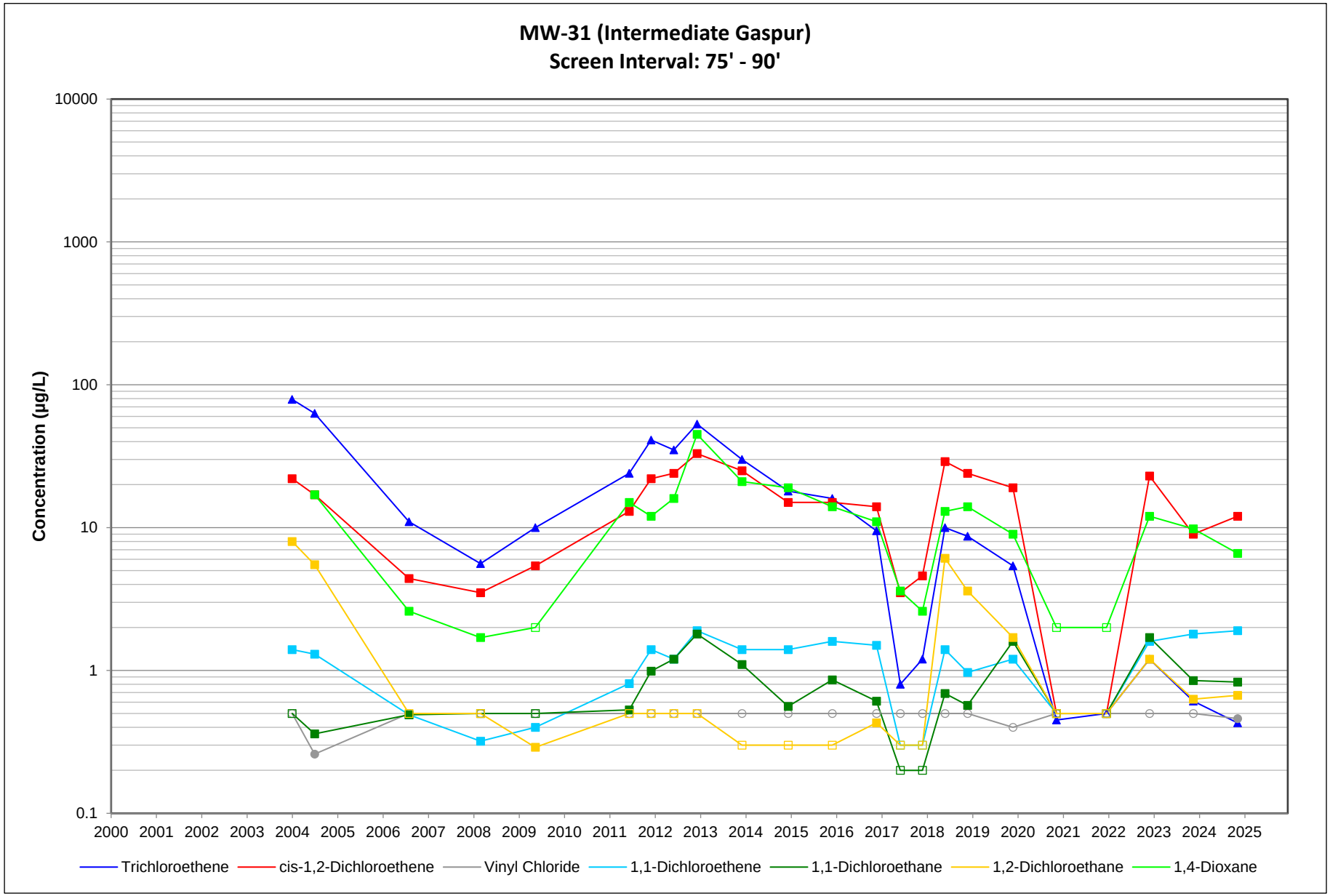
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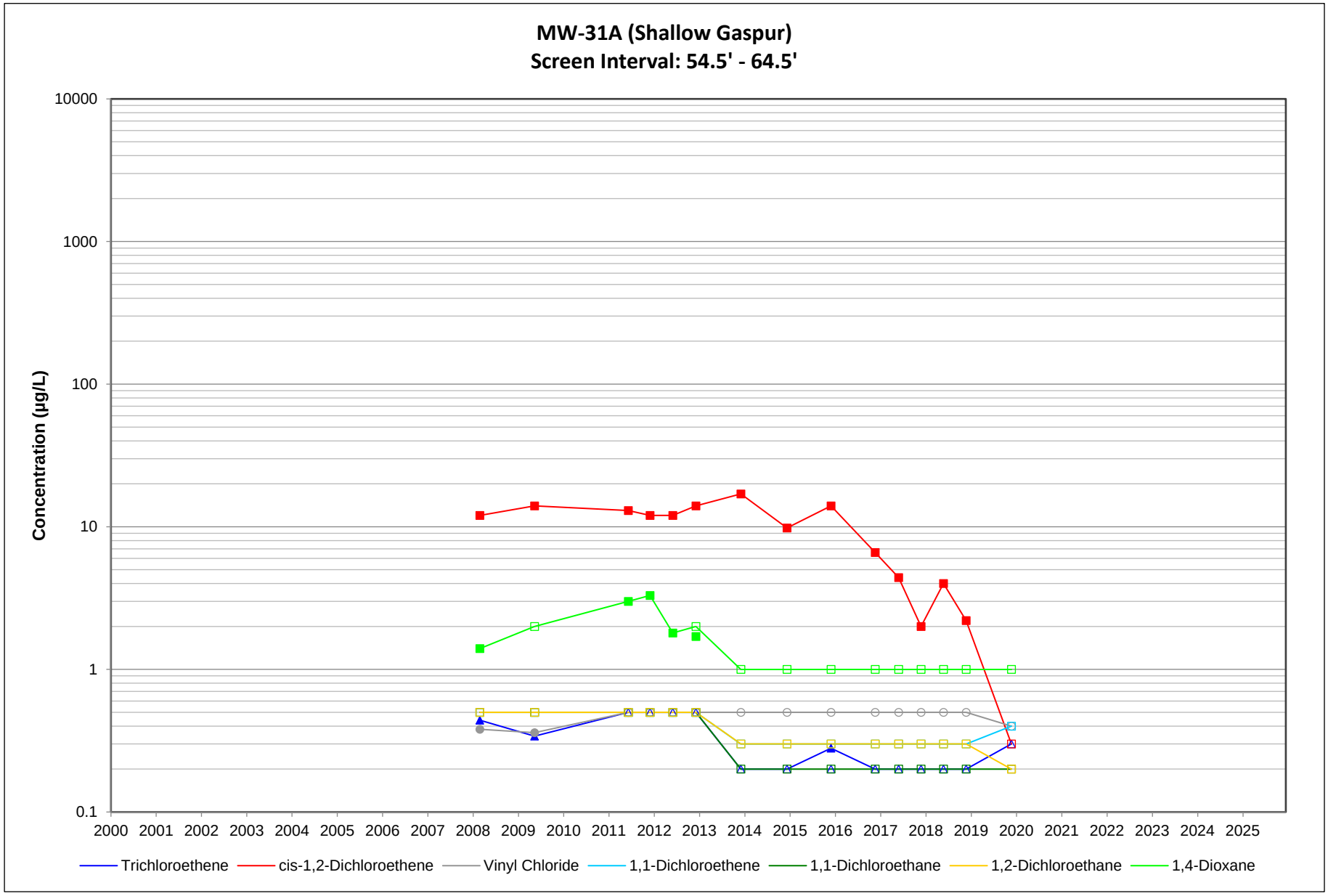
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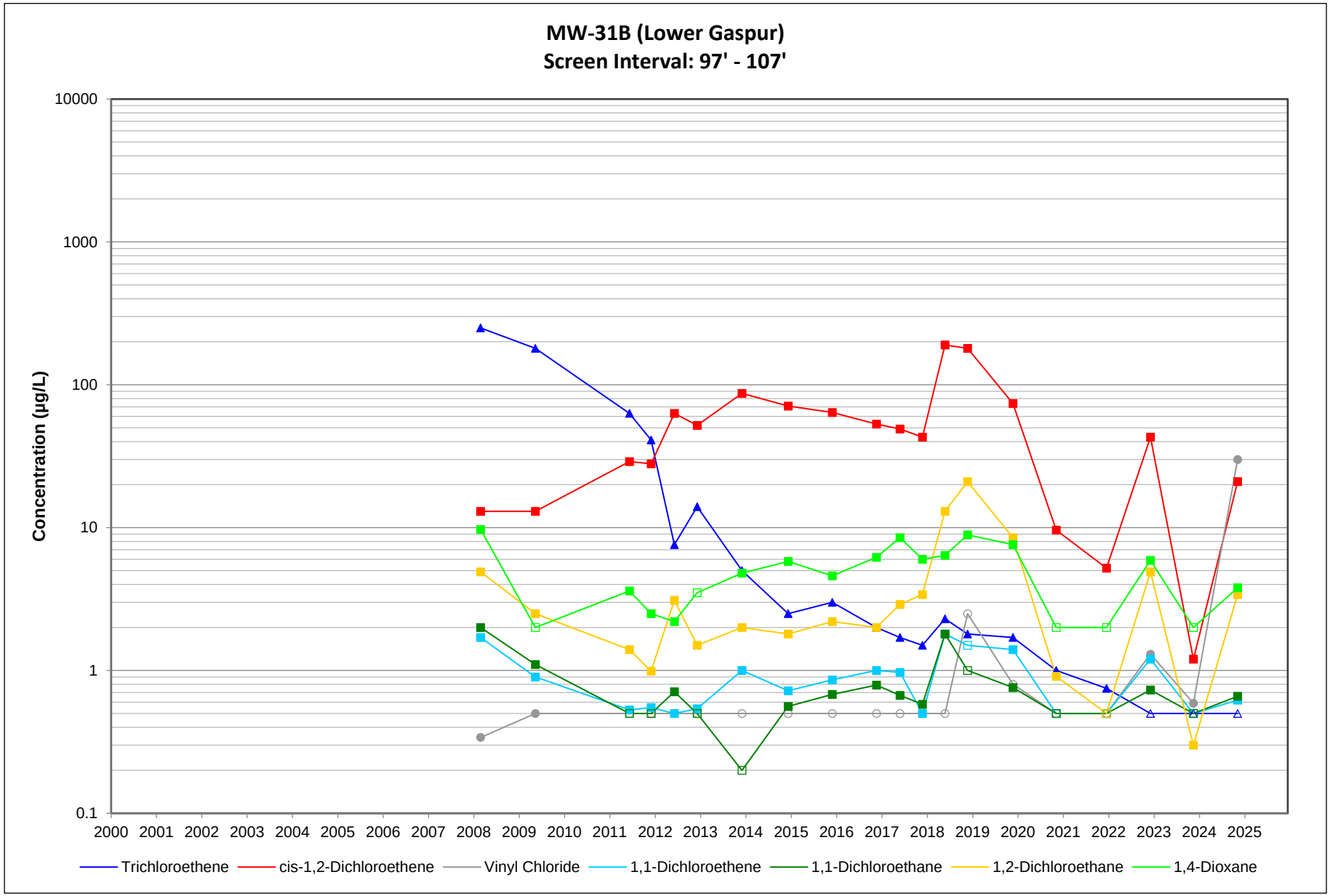
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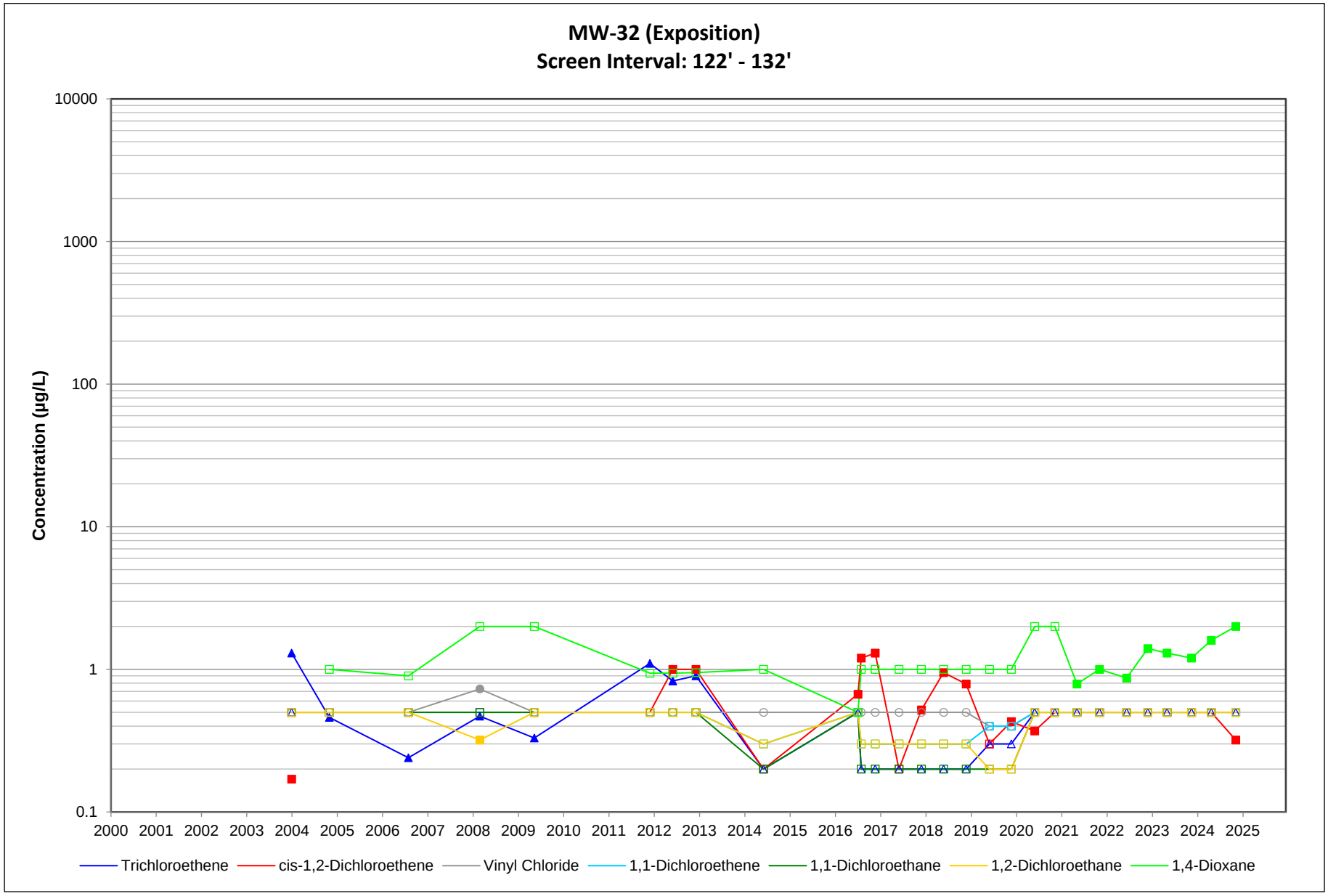
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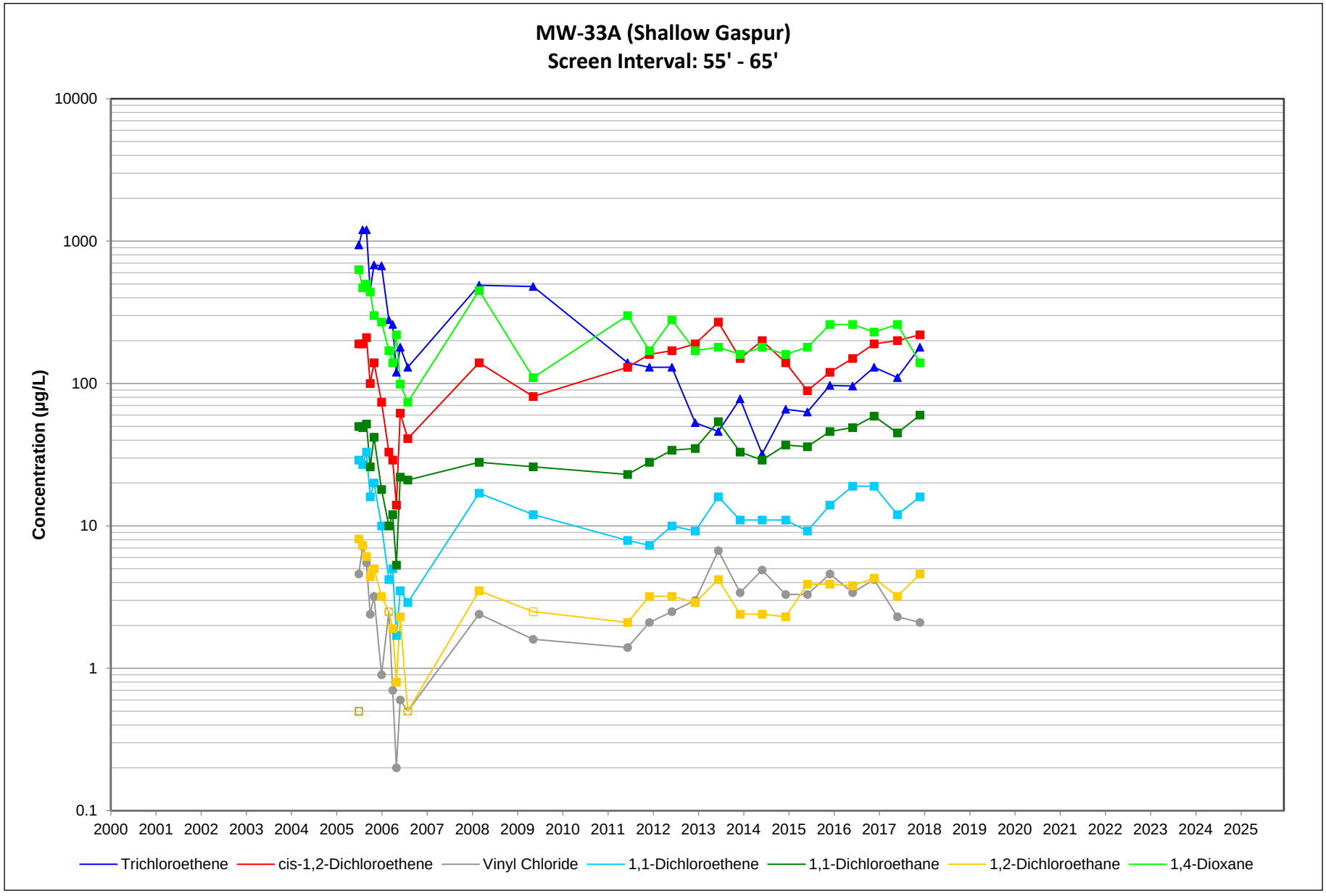
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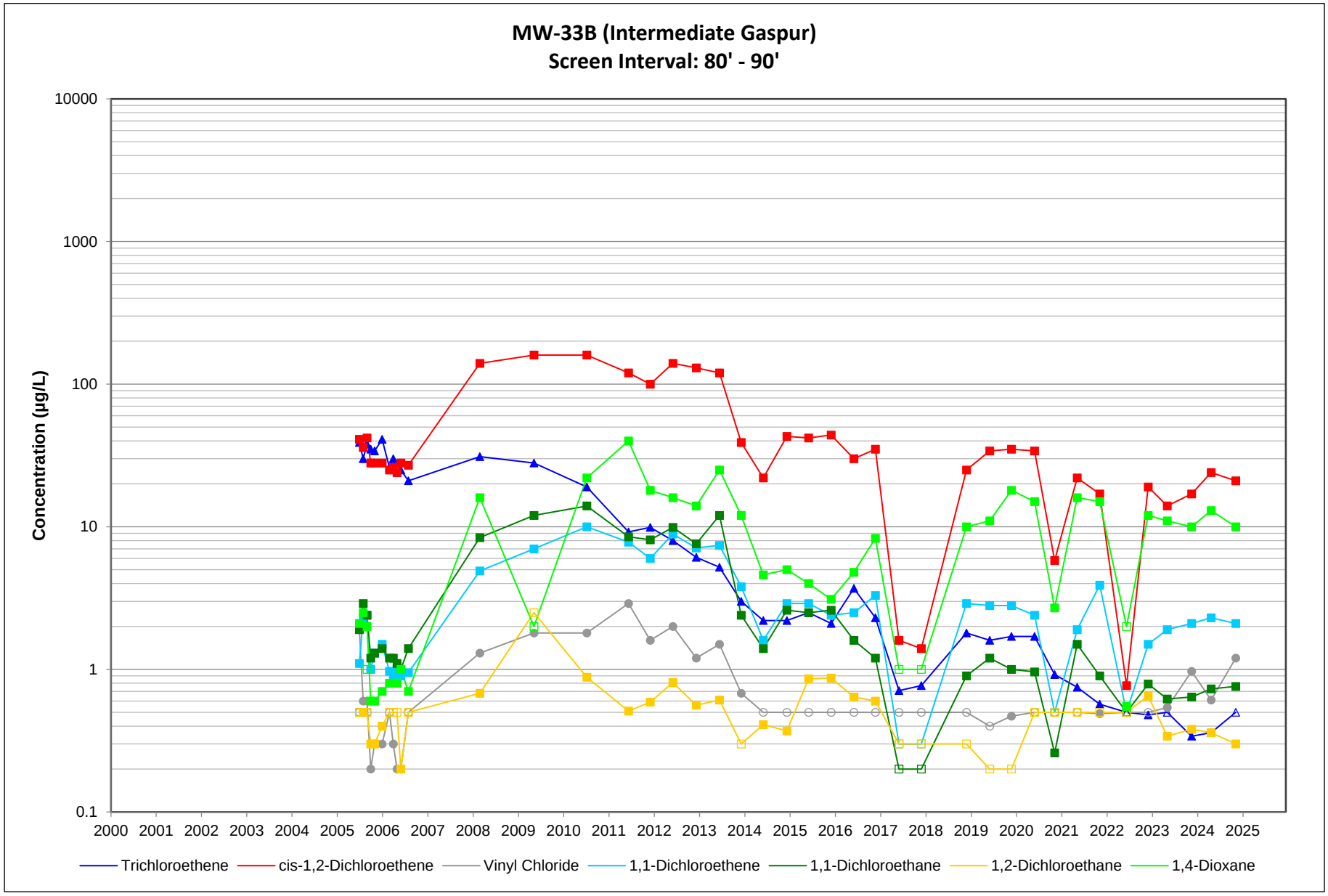
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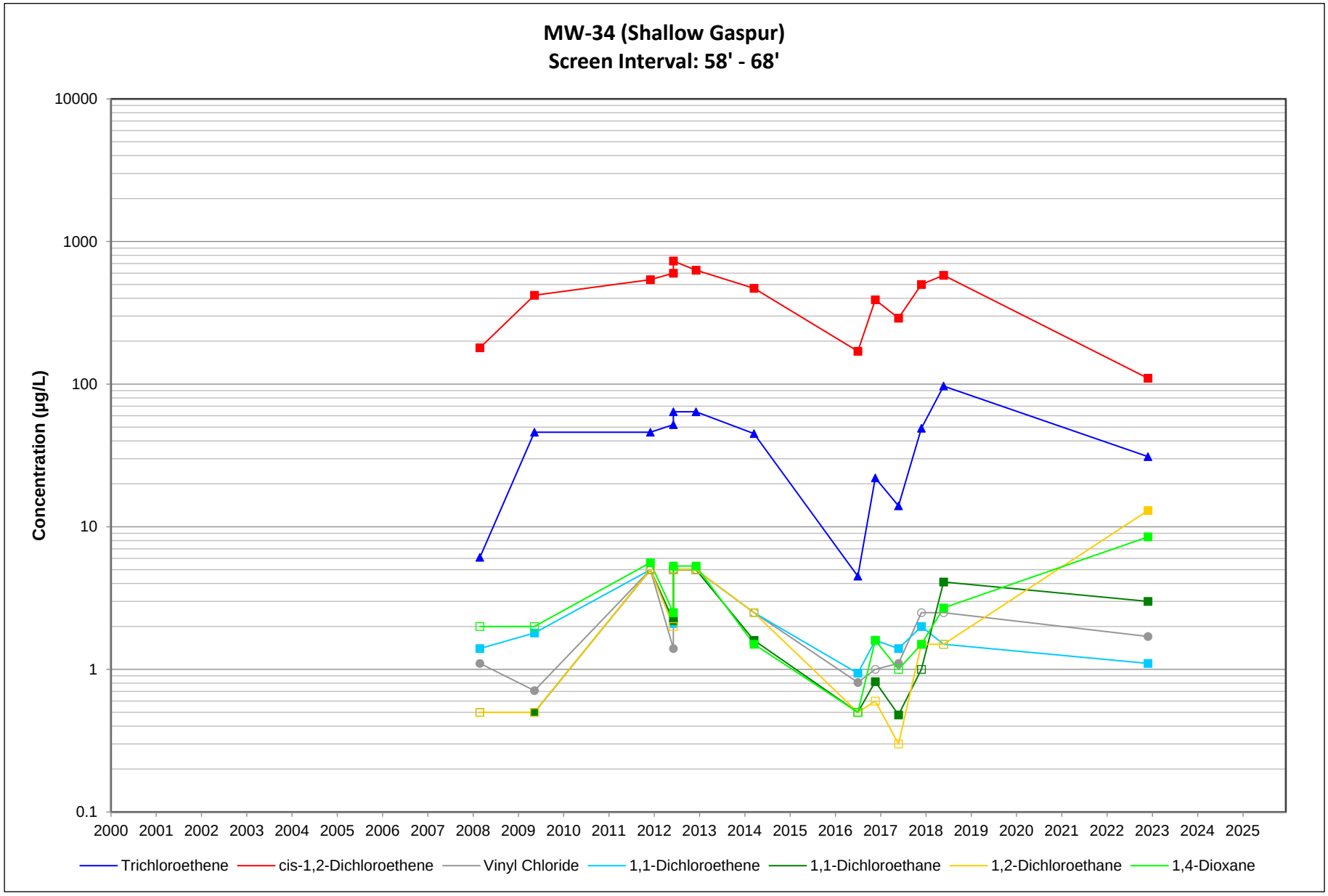
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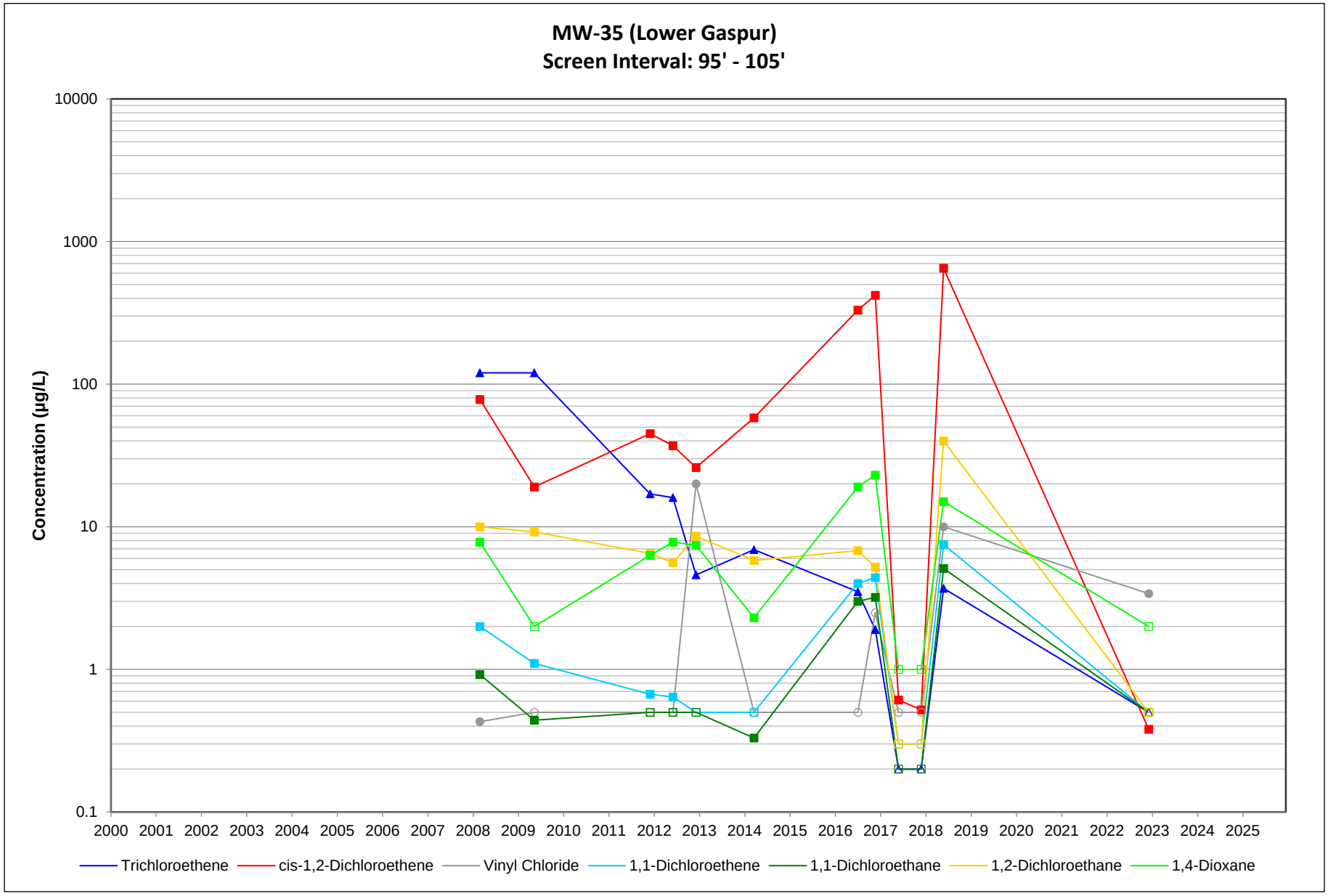
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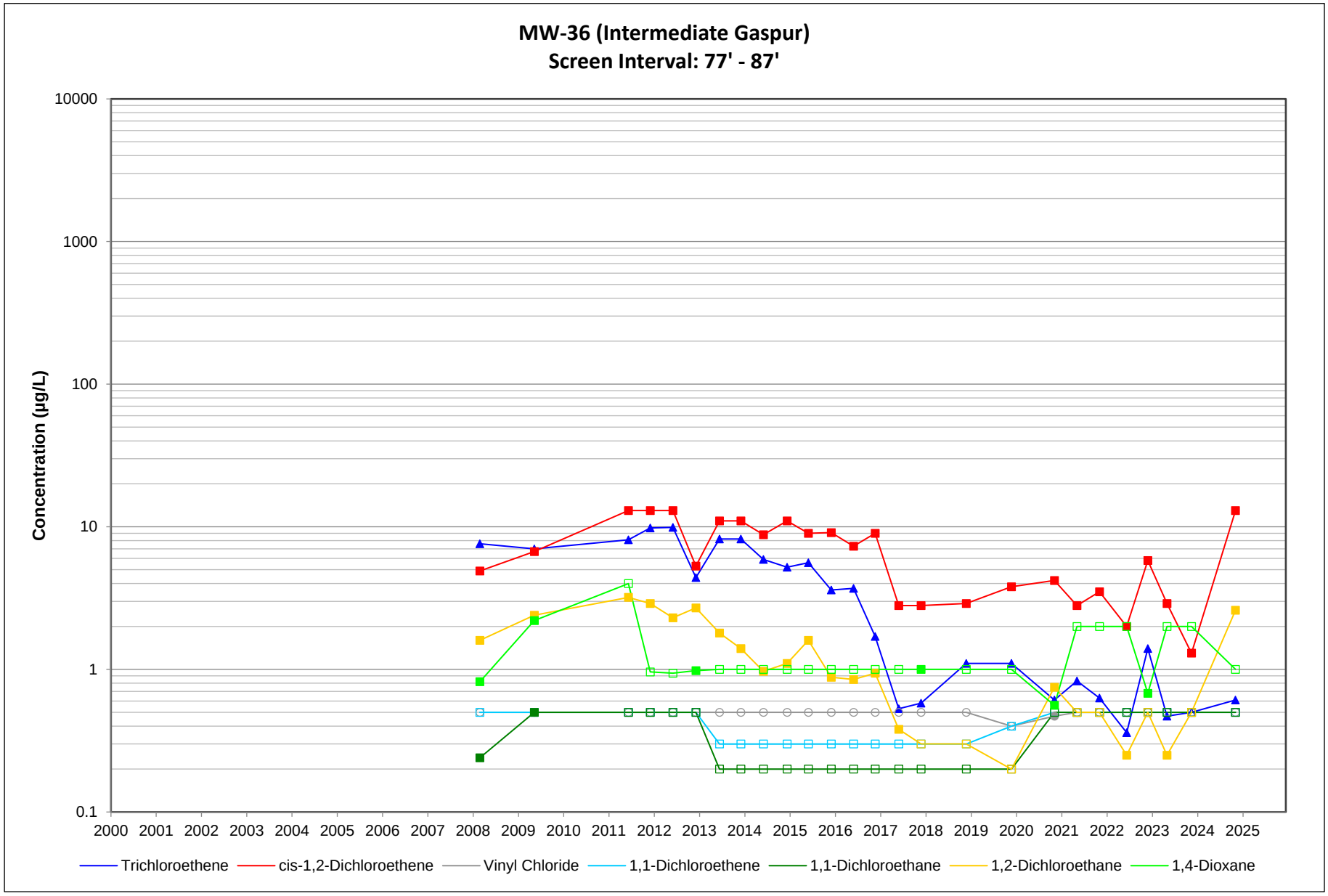
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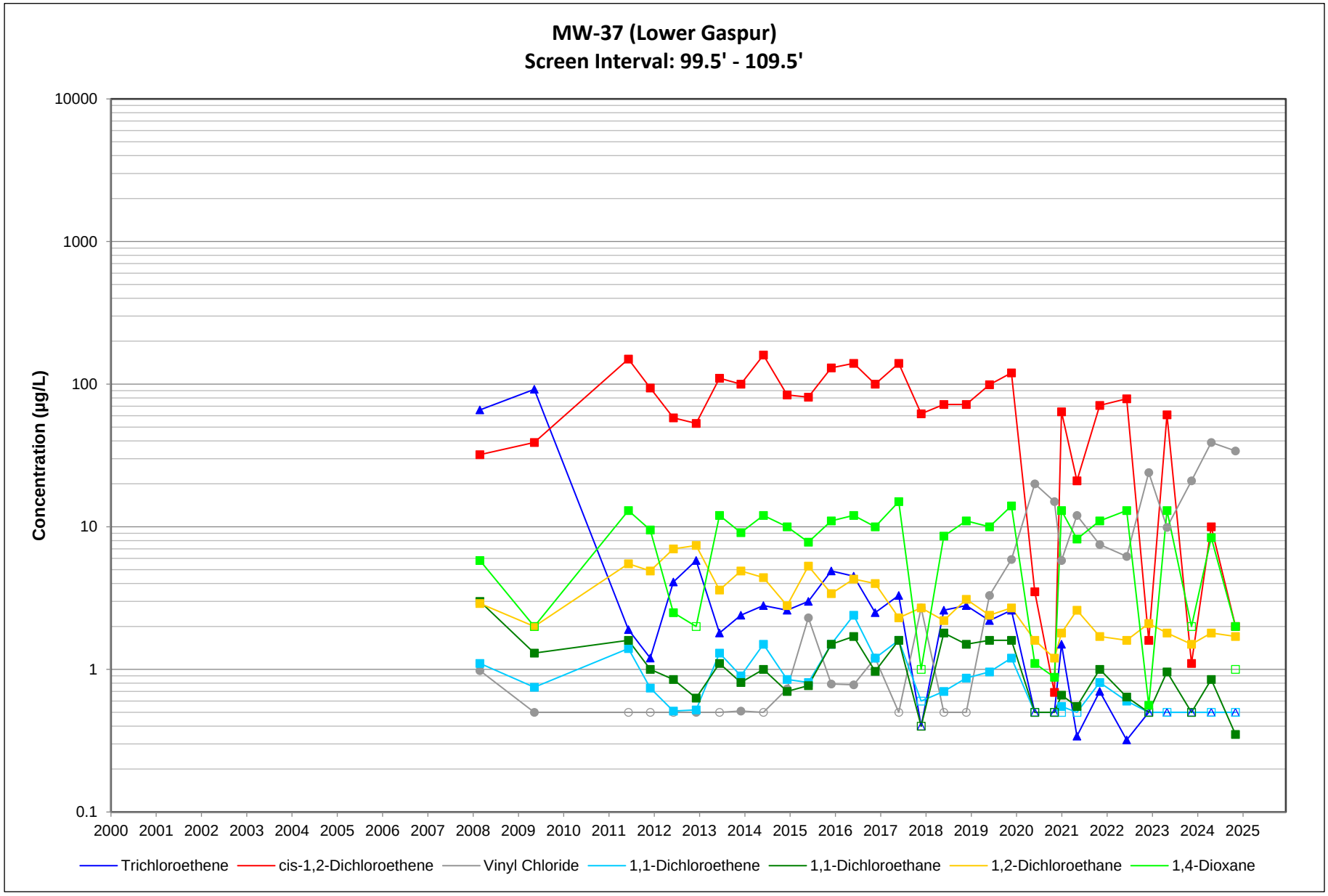
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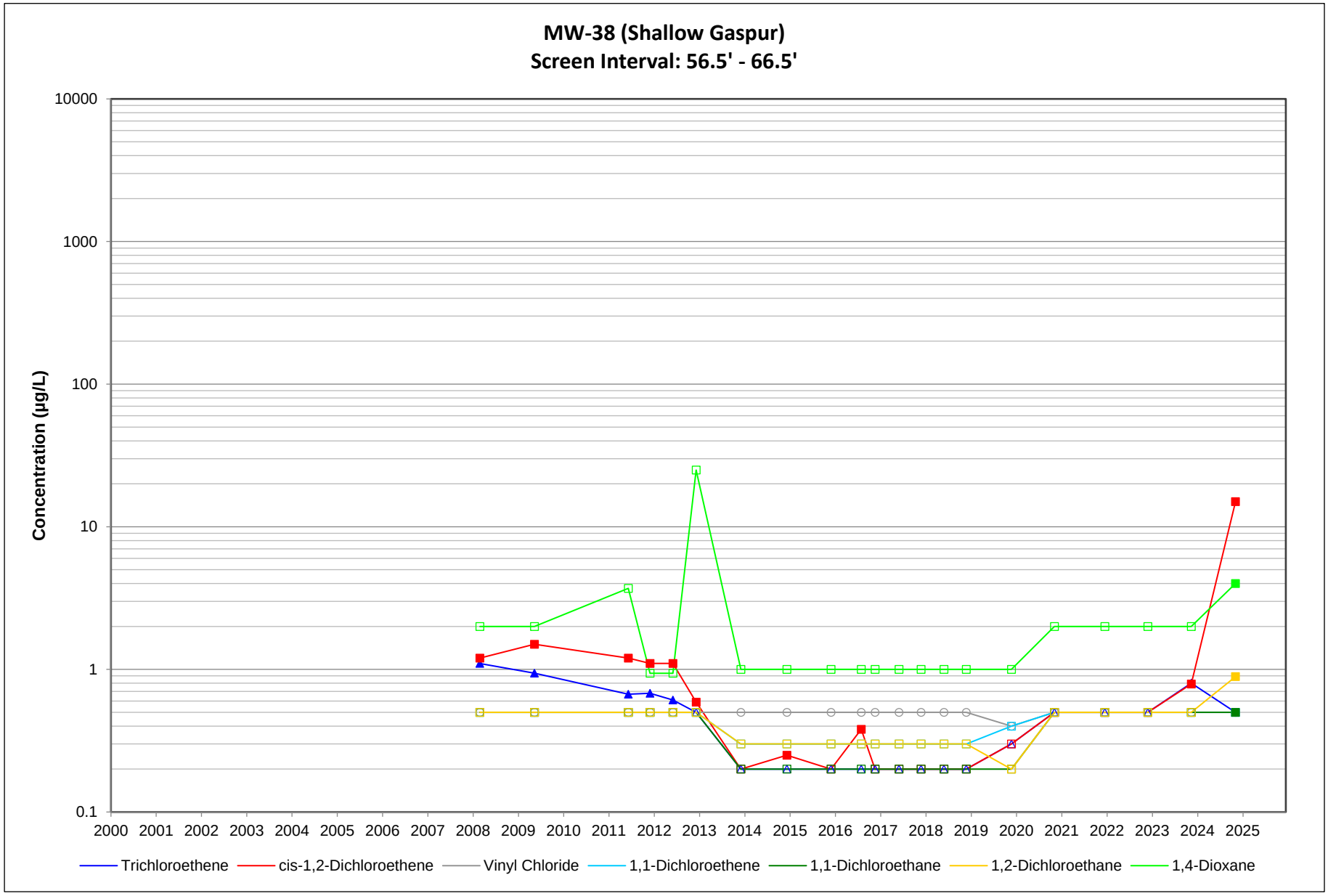
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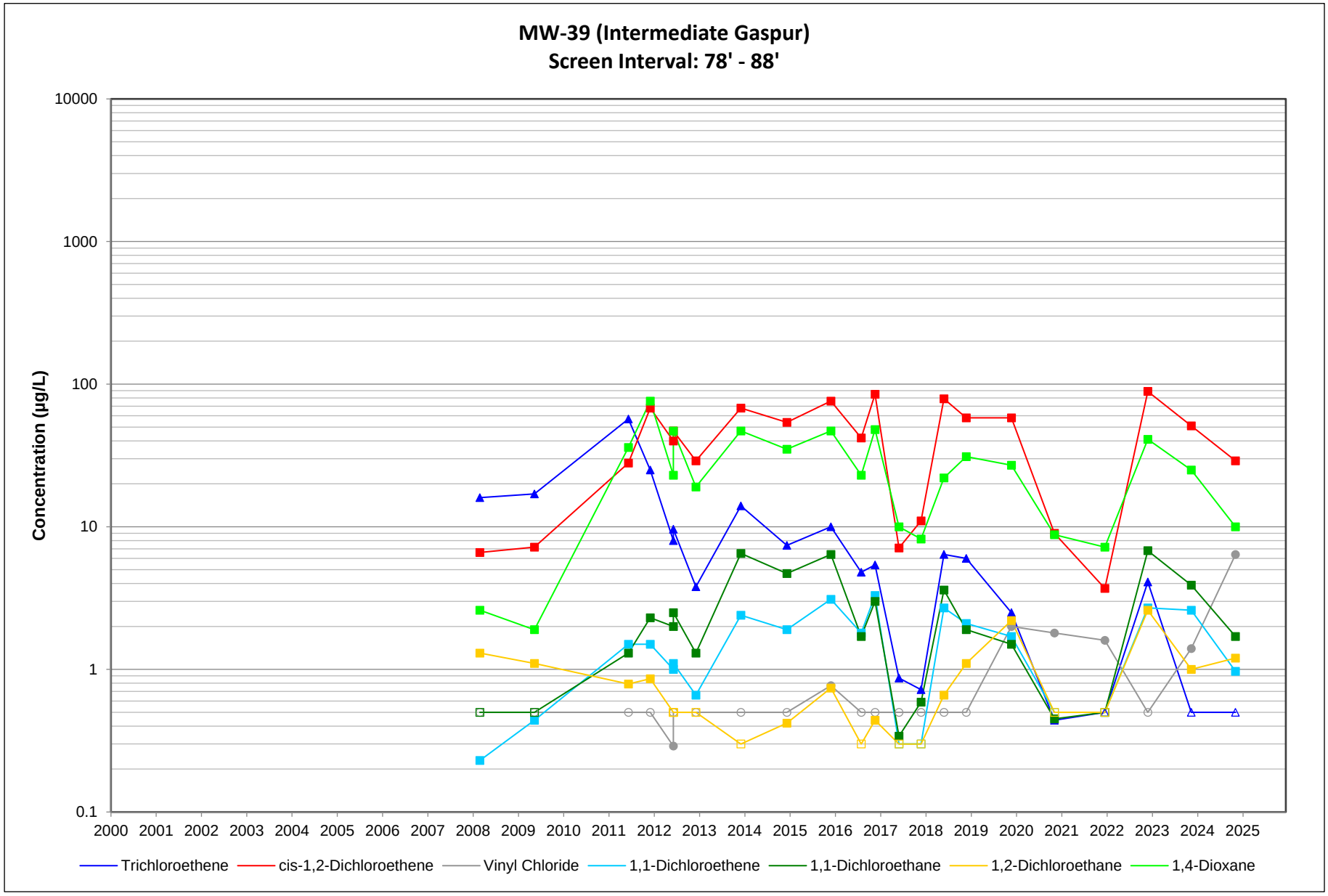
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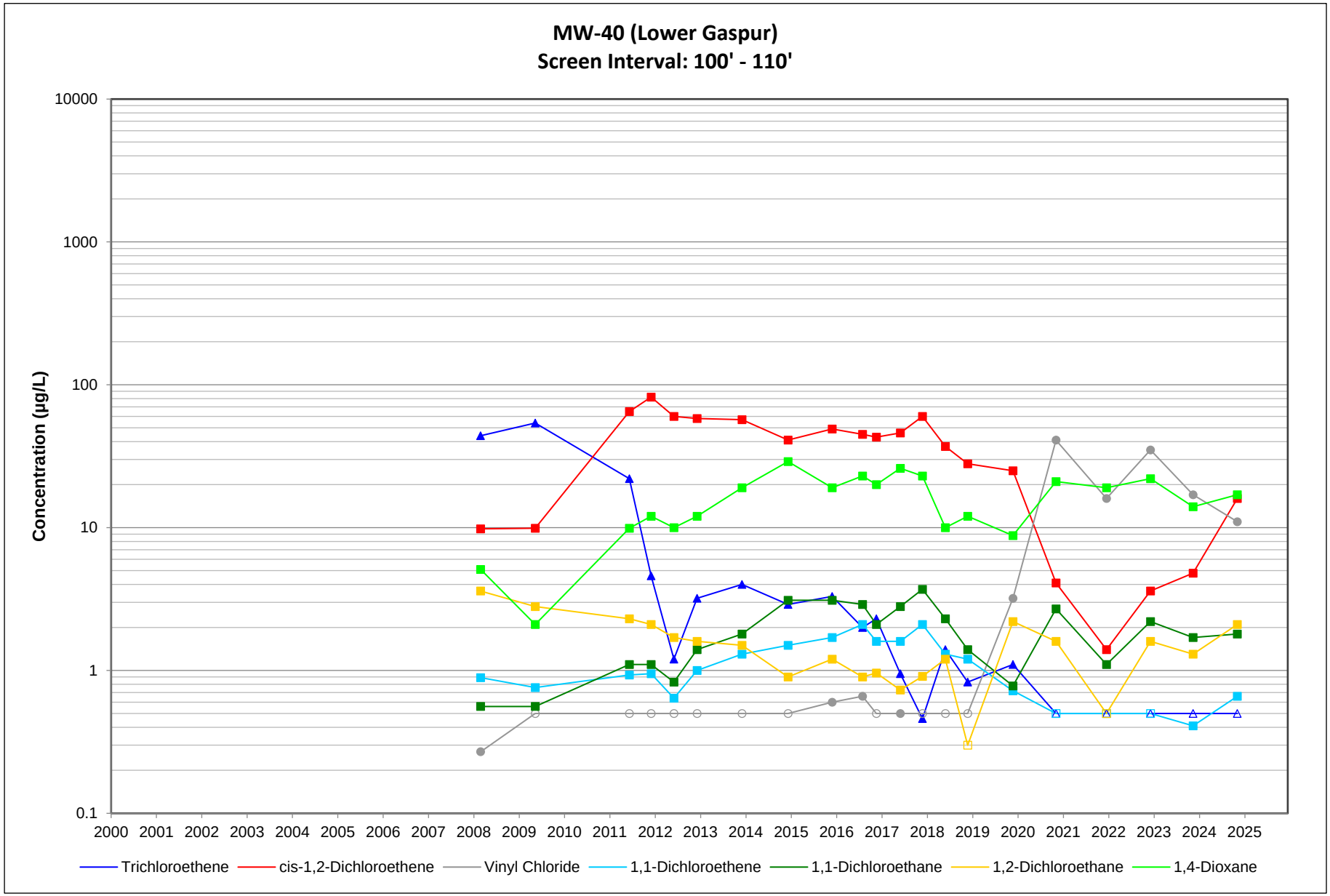
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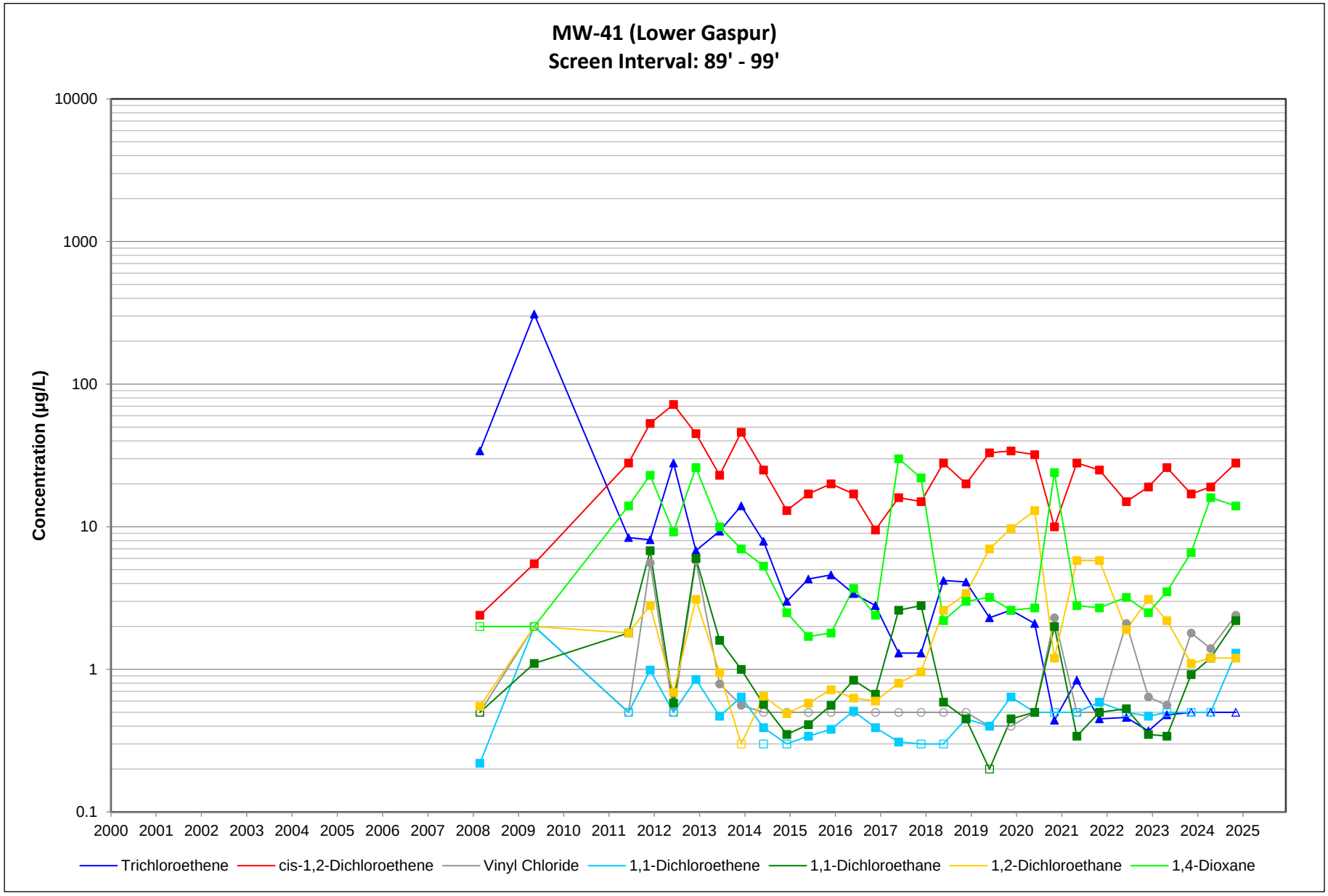
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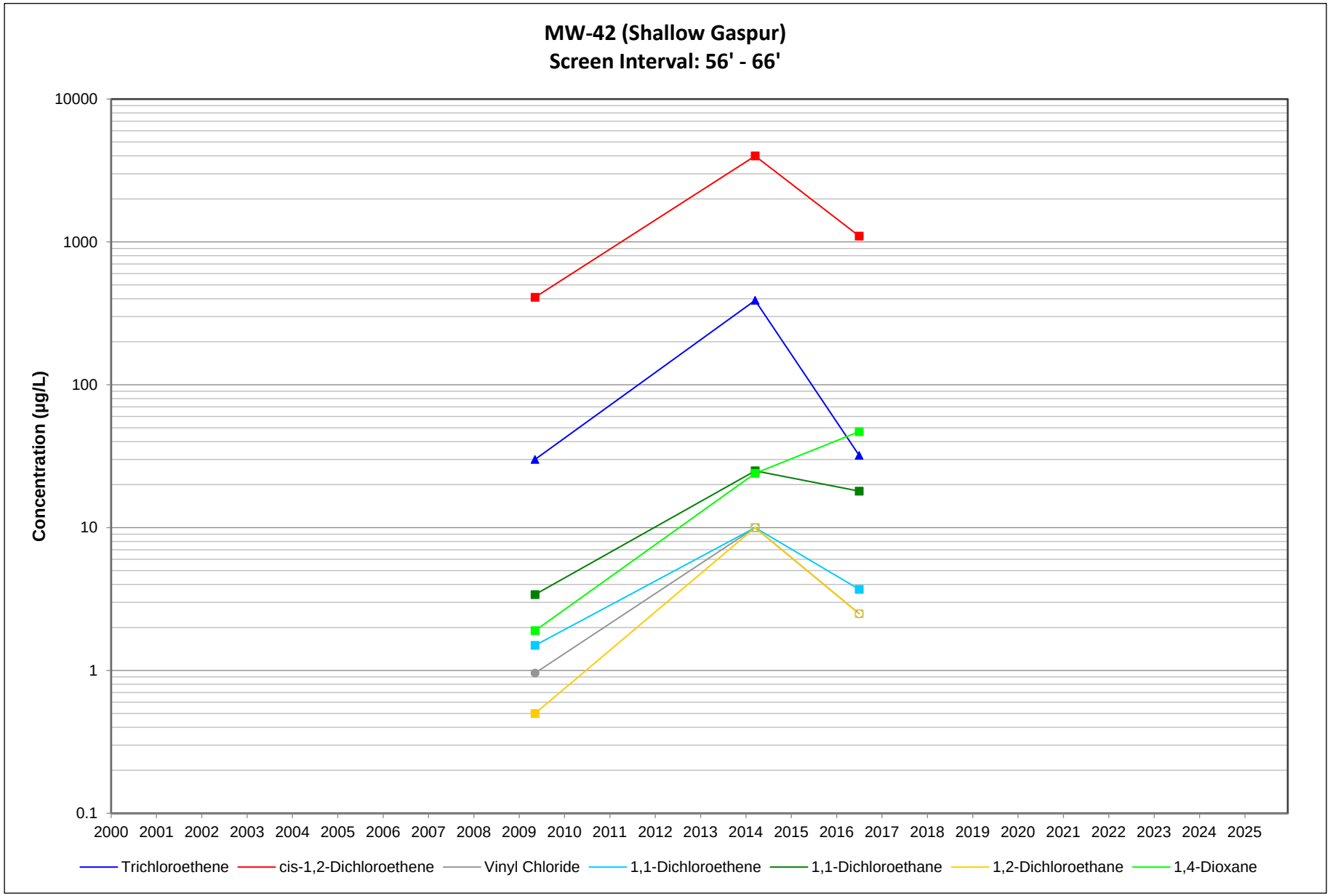
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FEBRUARY 2025



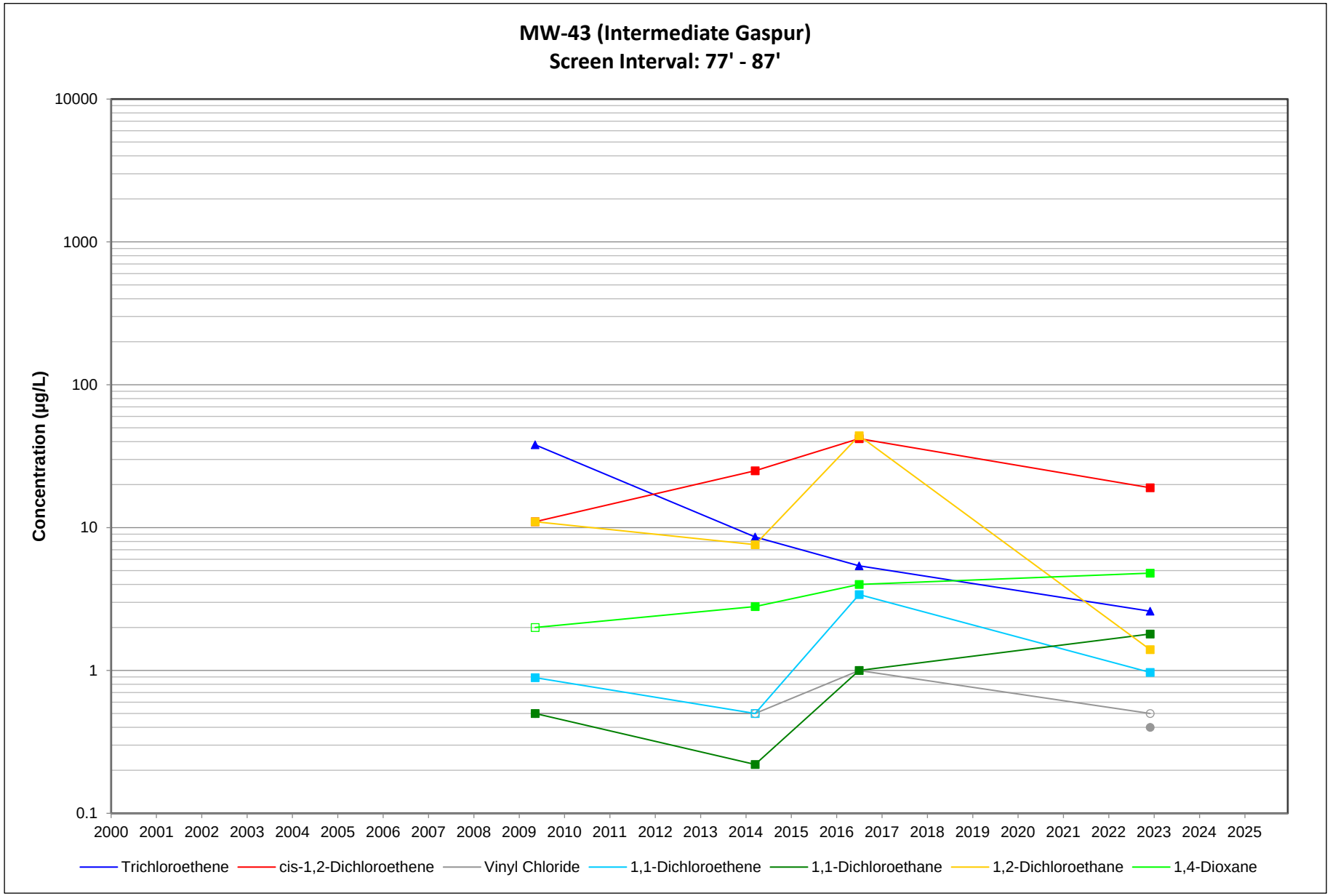
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FEBRUARY 2025



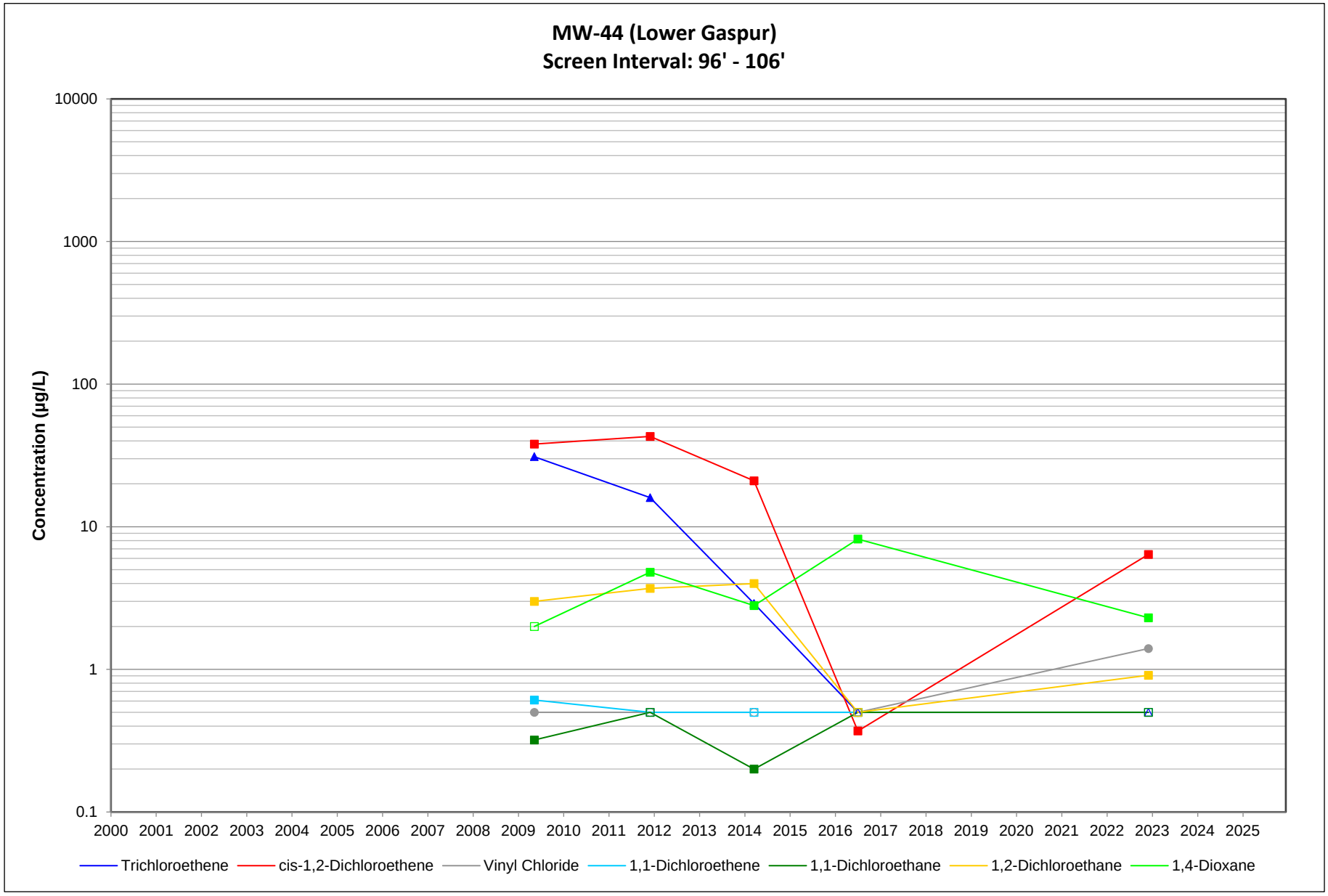
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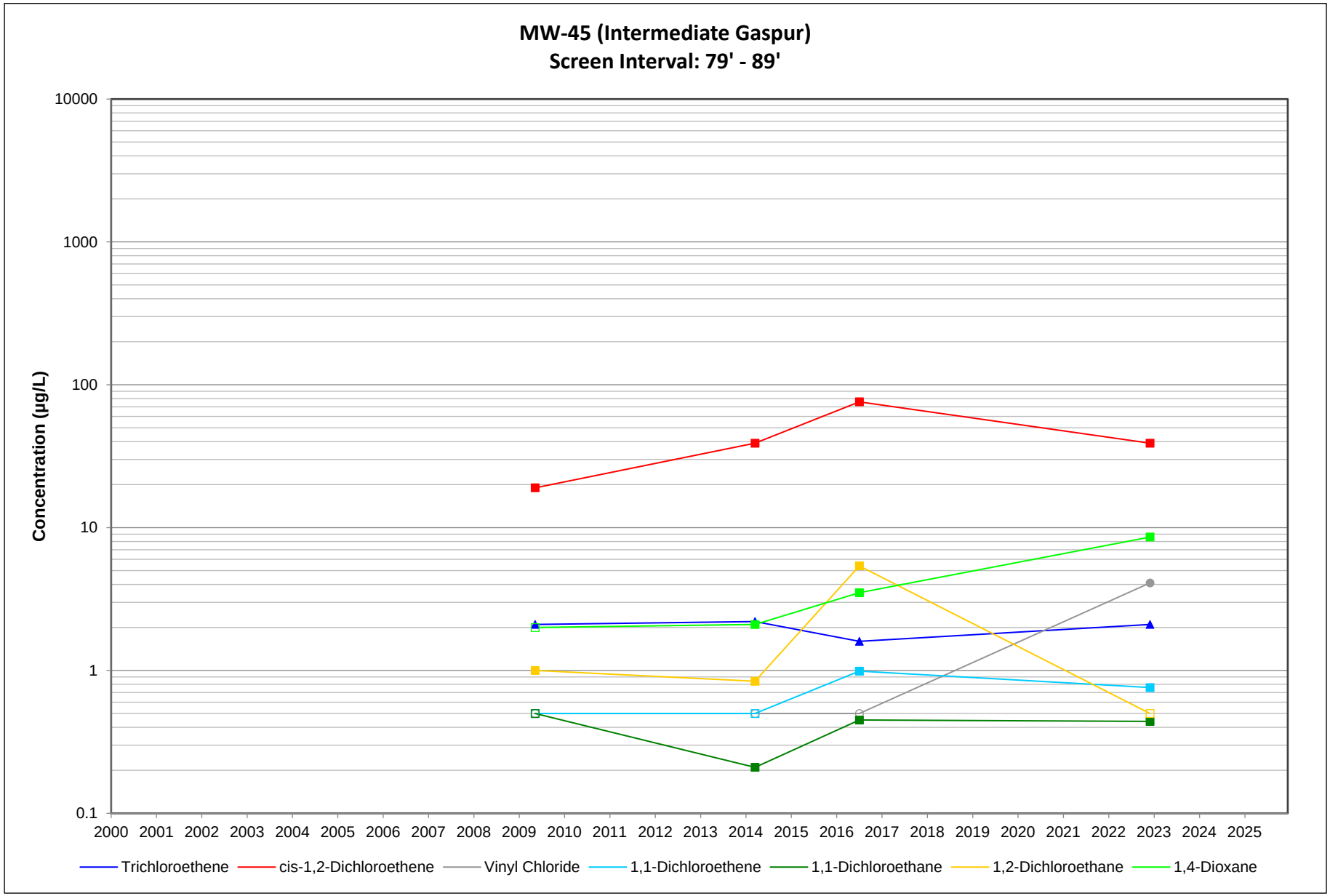
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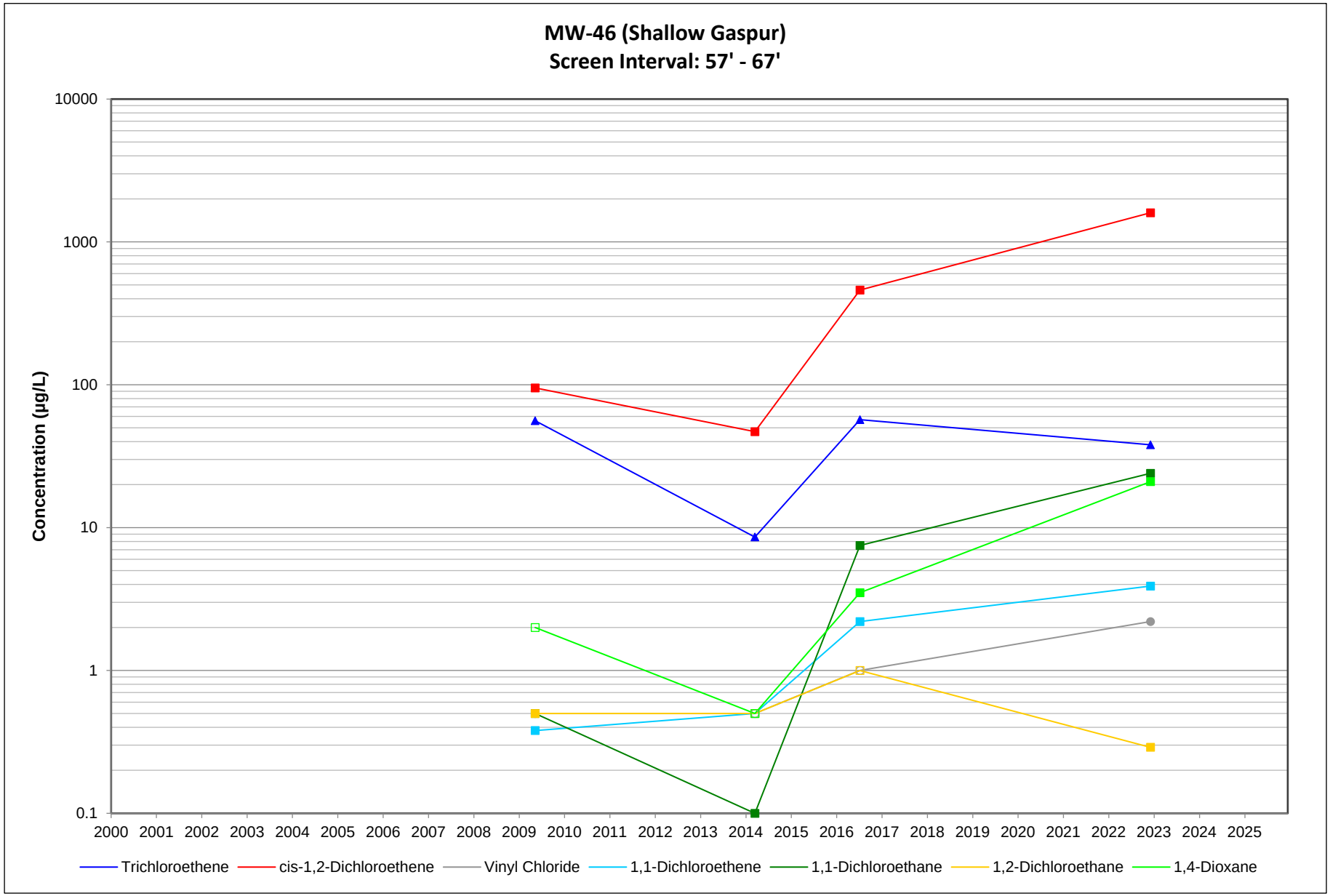
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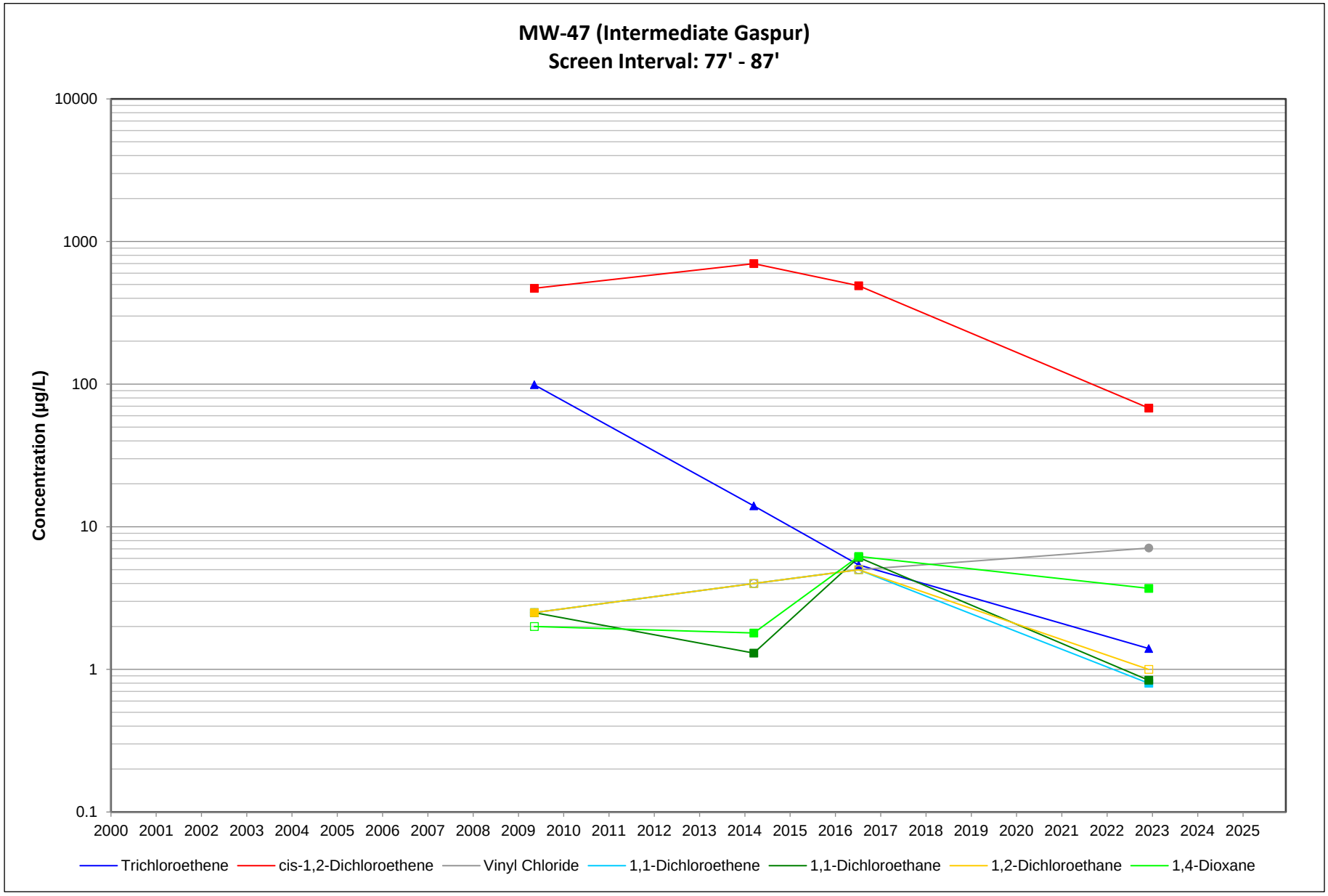
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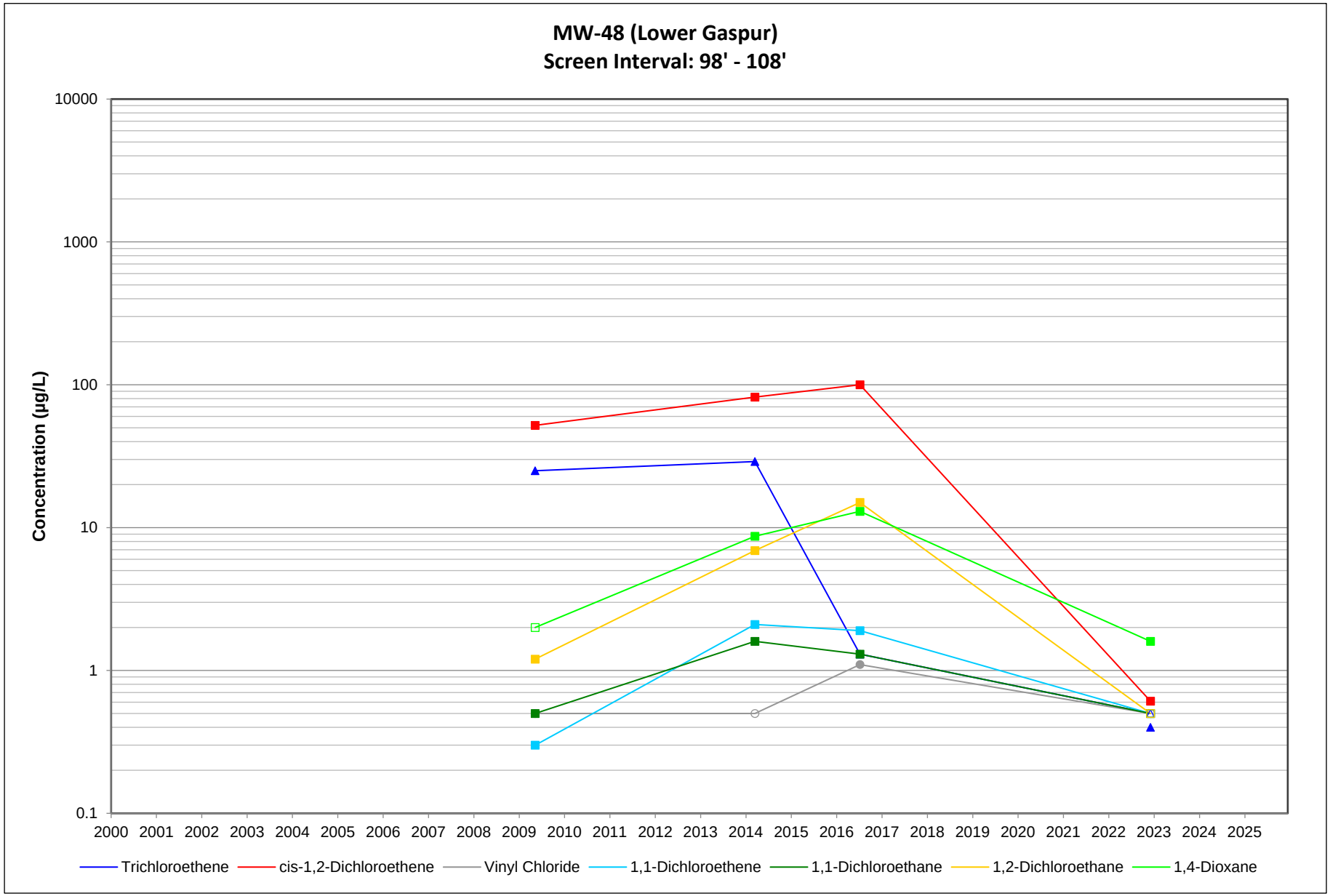
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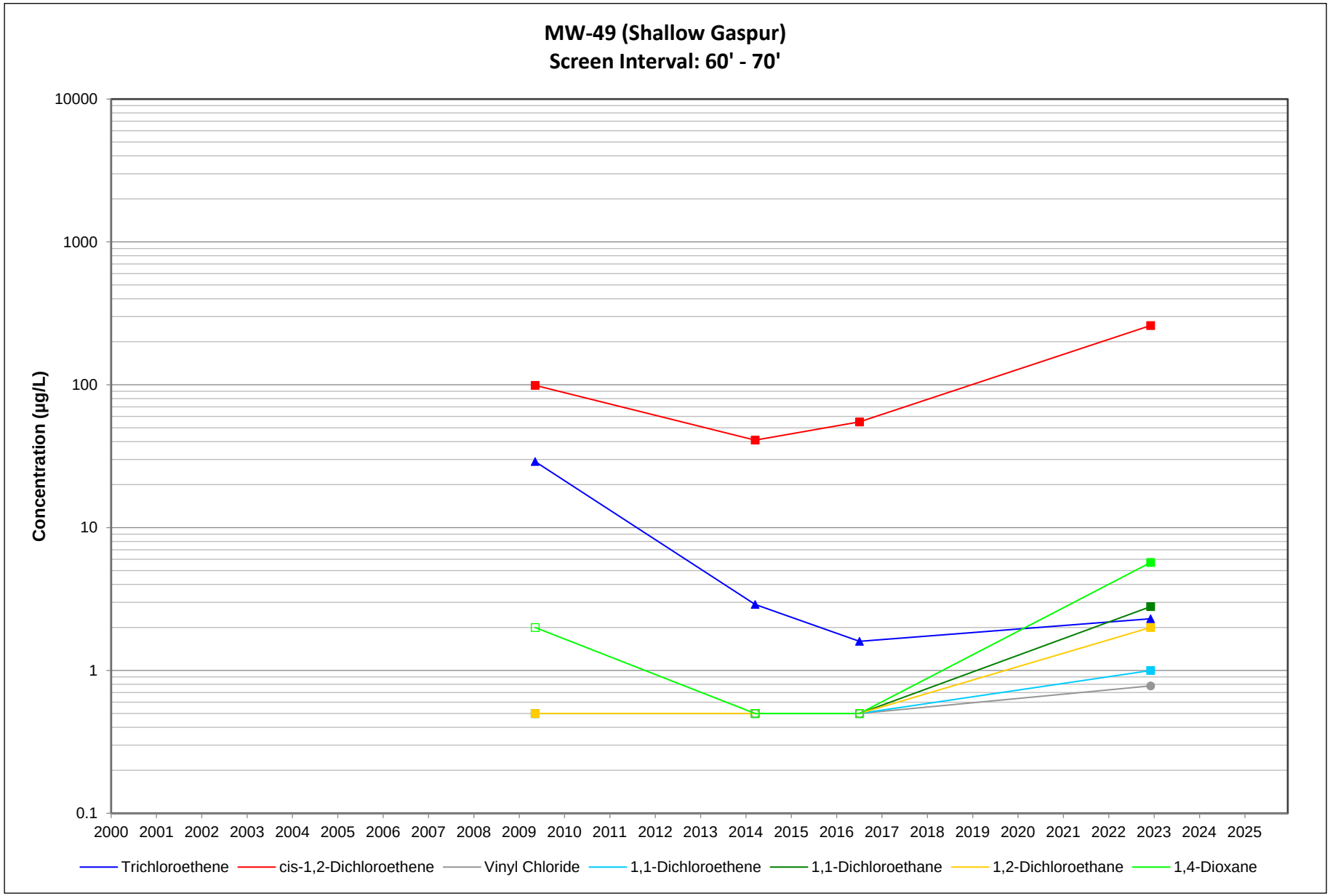
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FEBRUARY 2025



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FEBRUARY 2025



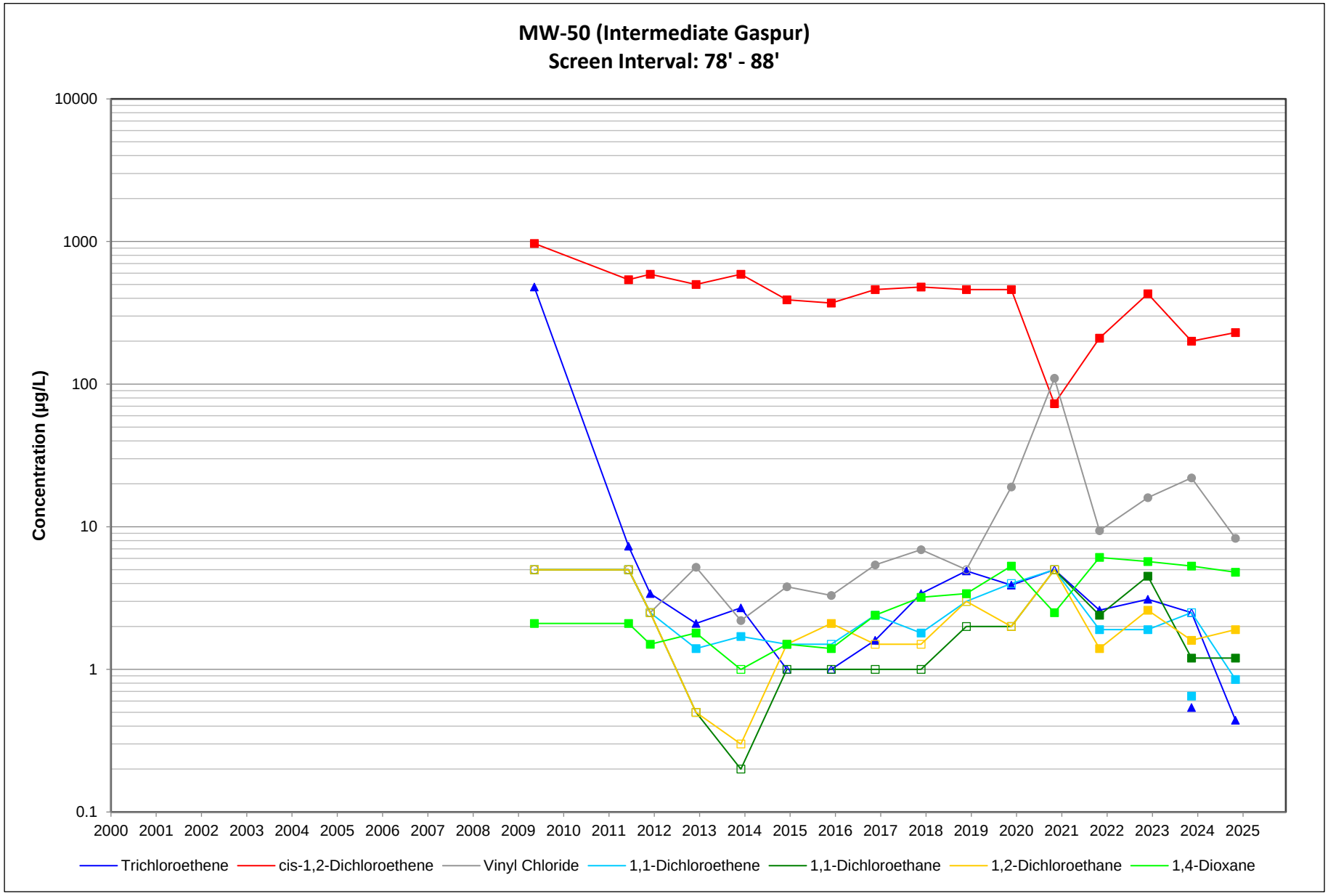
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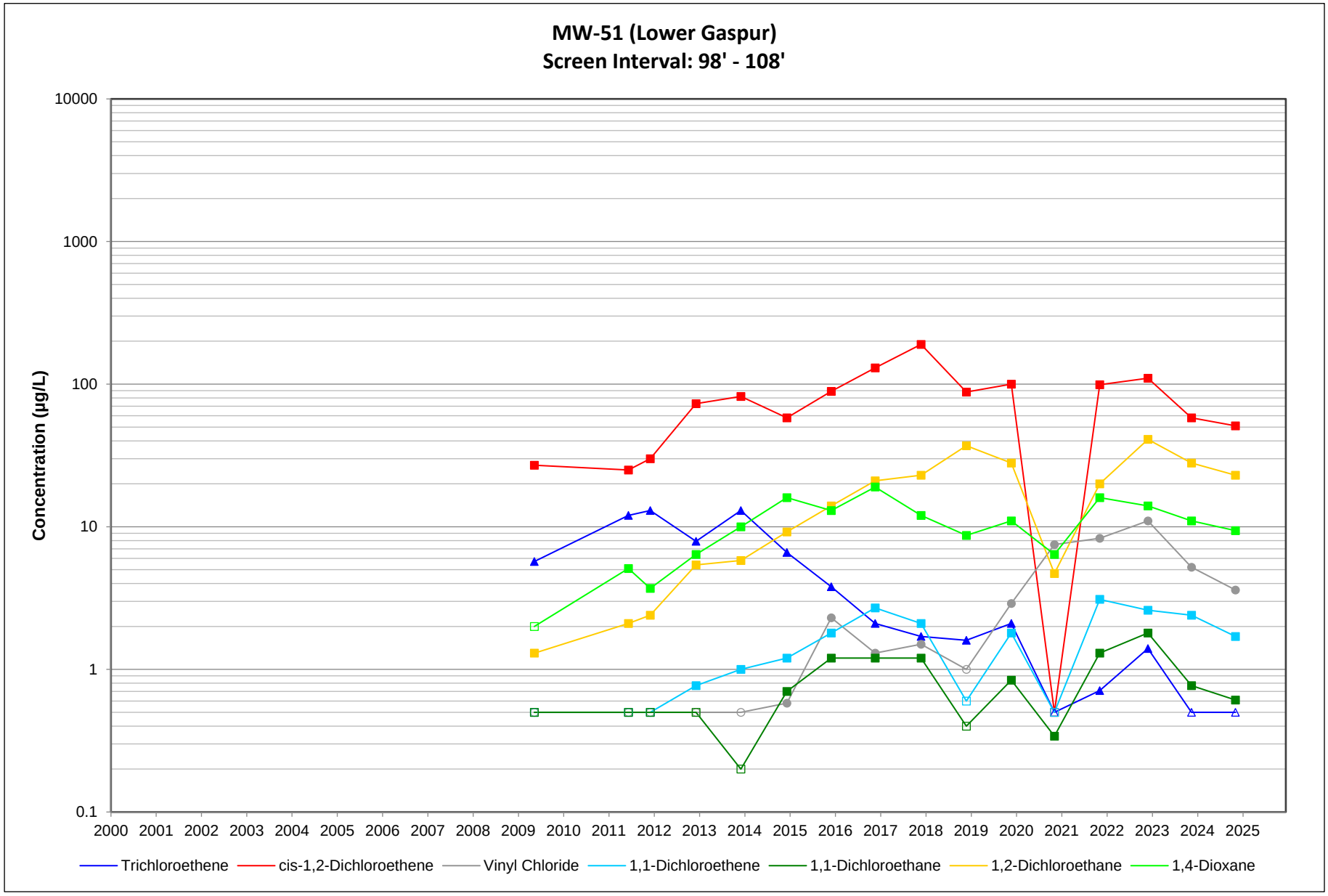
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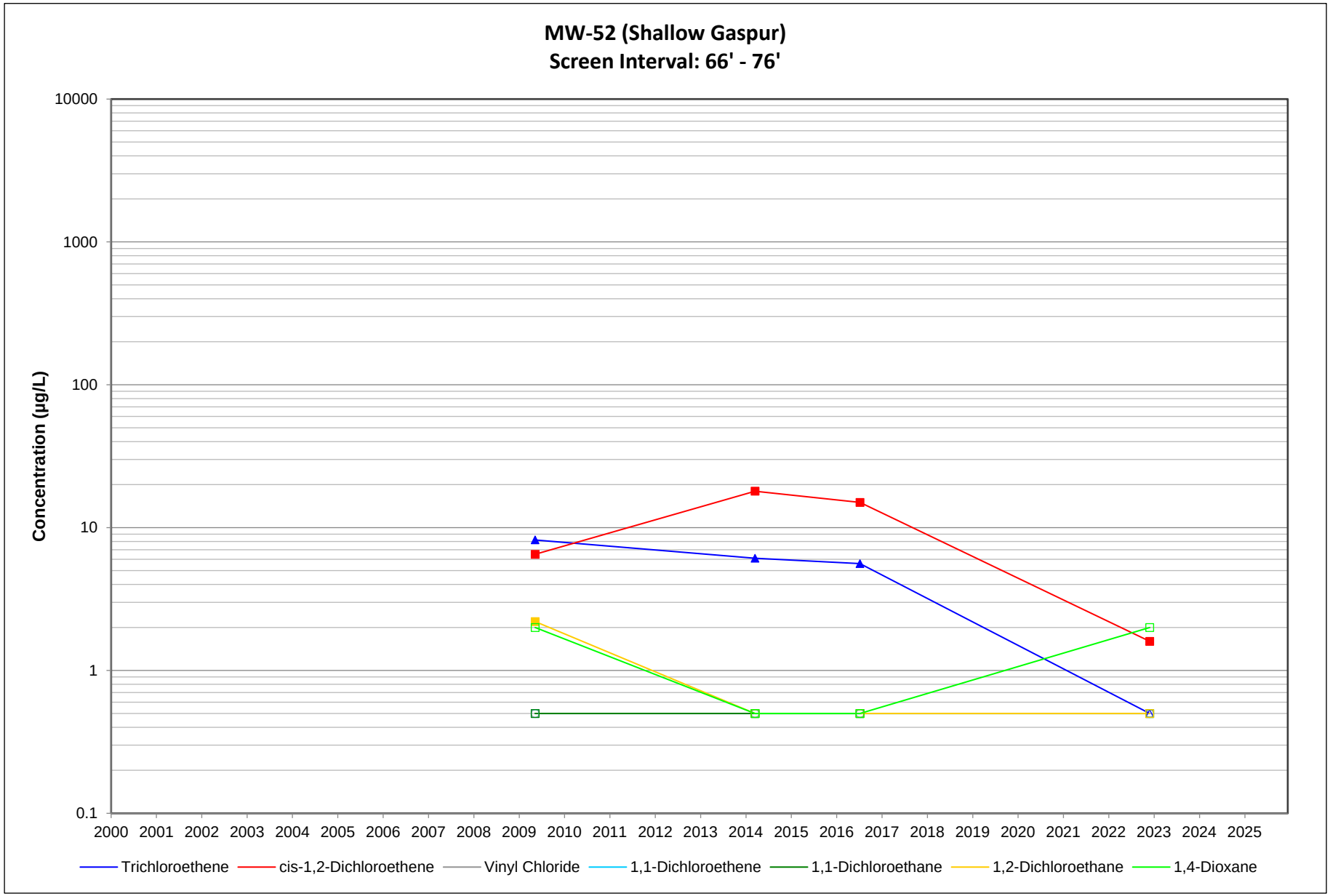
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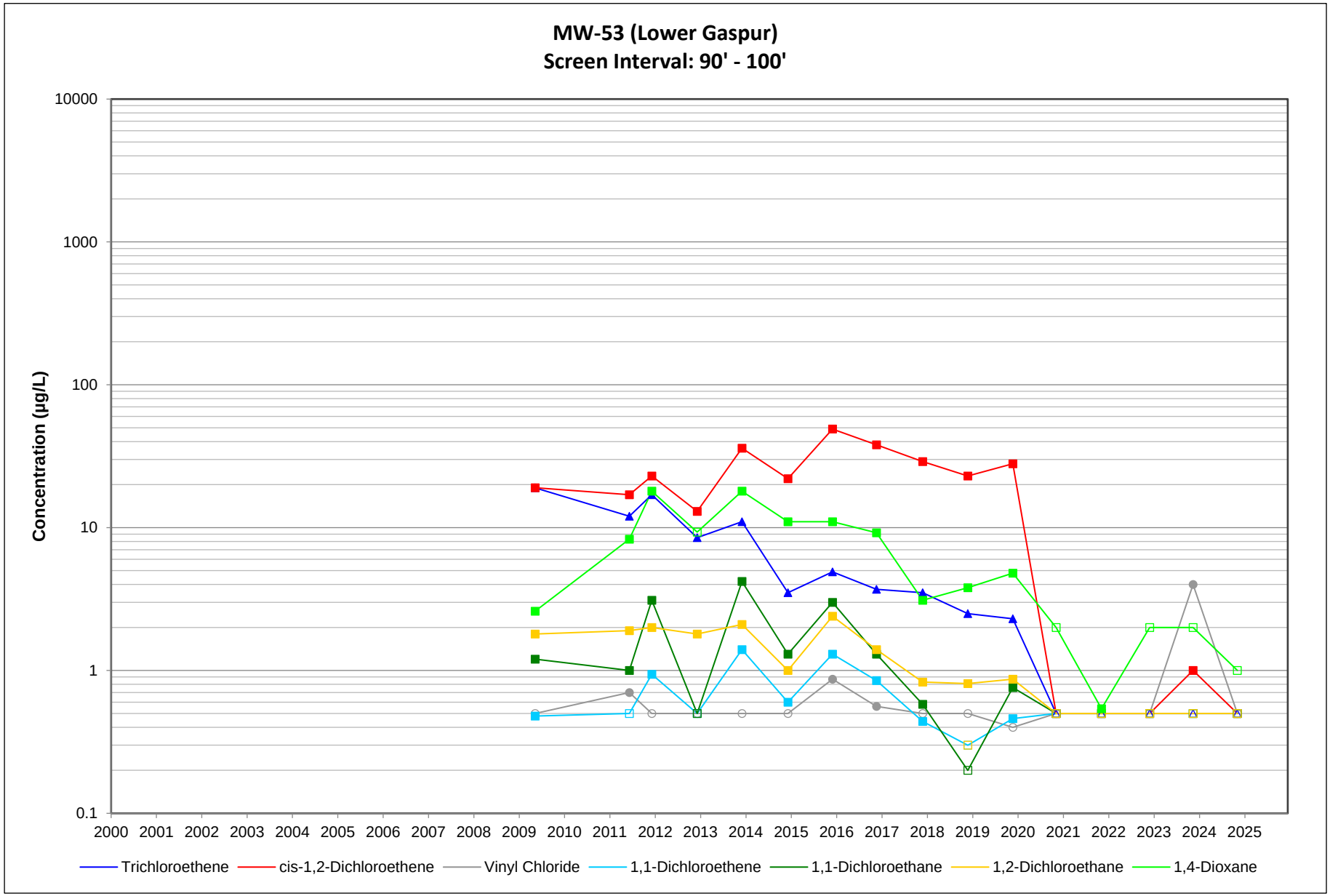
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FEBRUARY 2025



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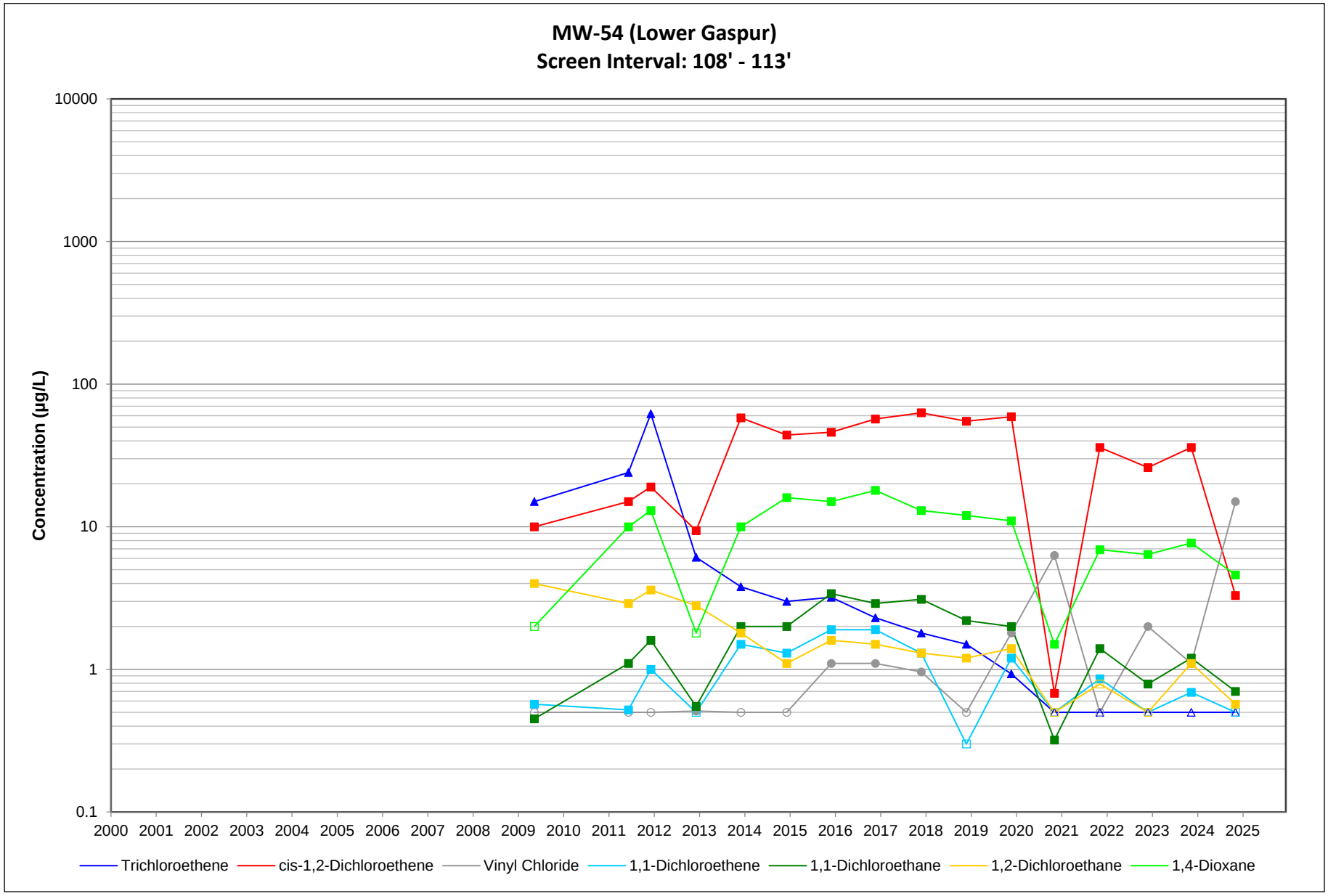
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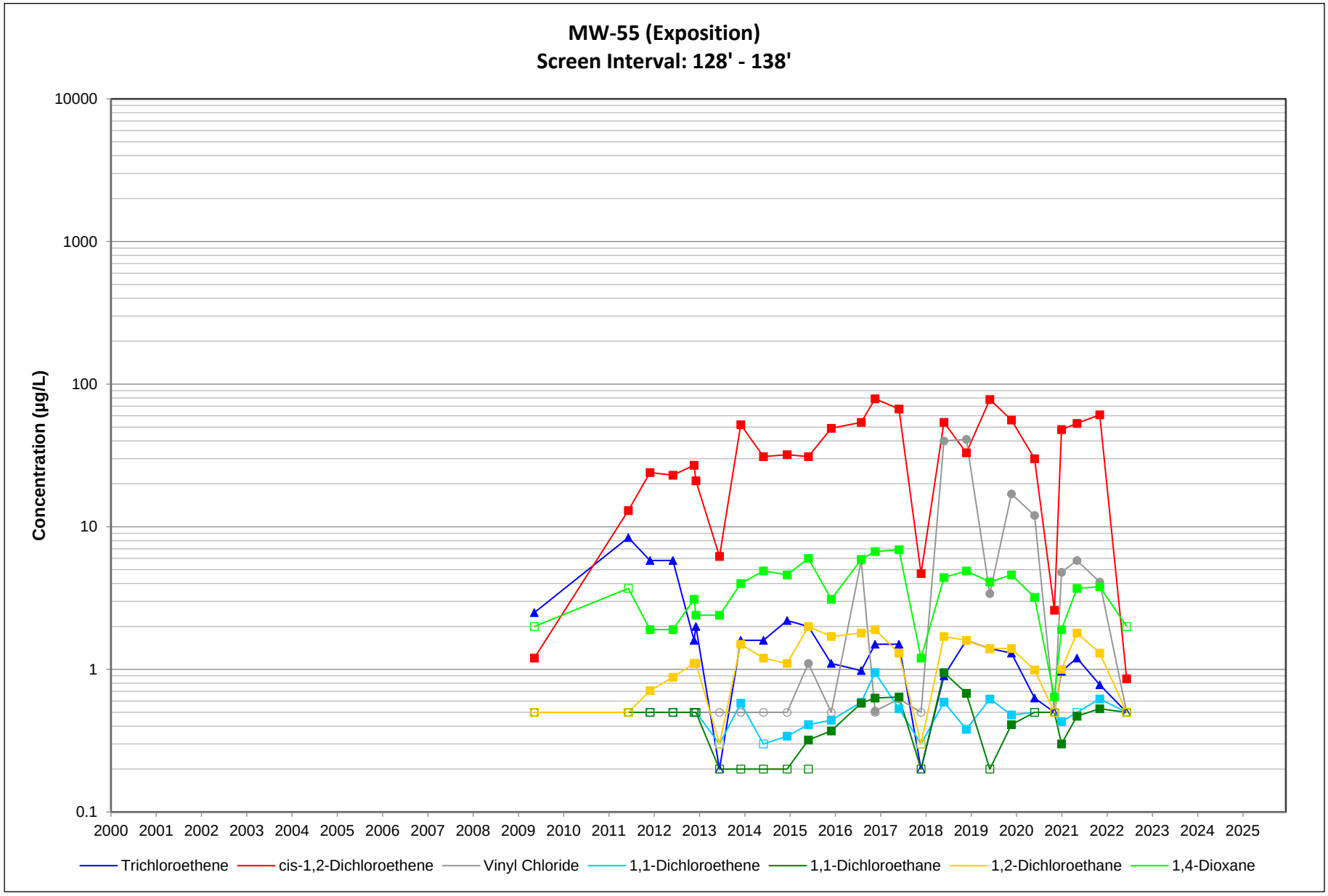
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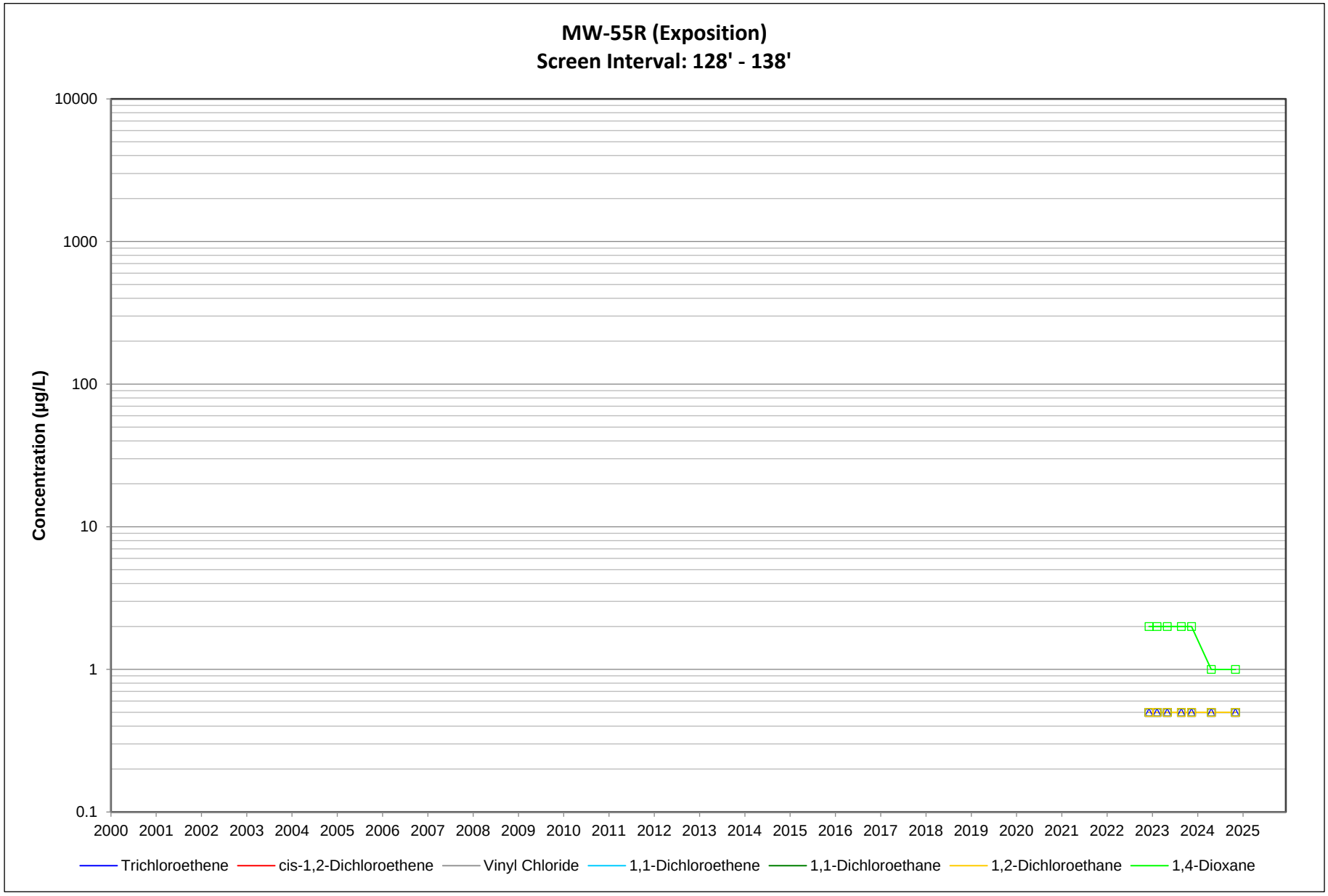
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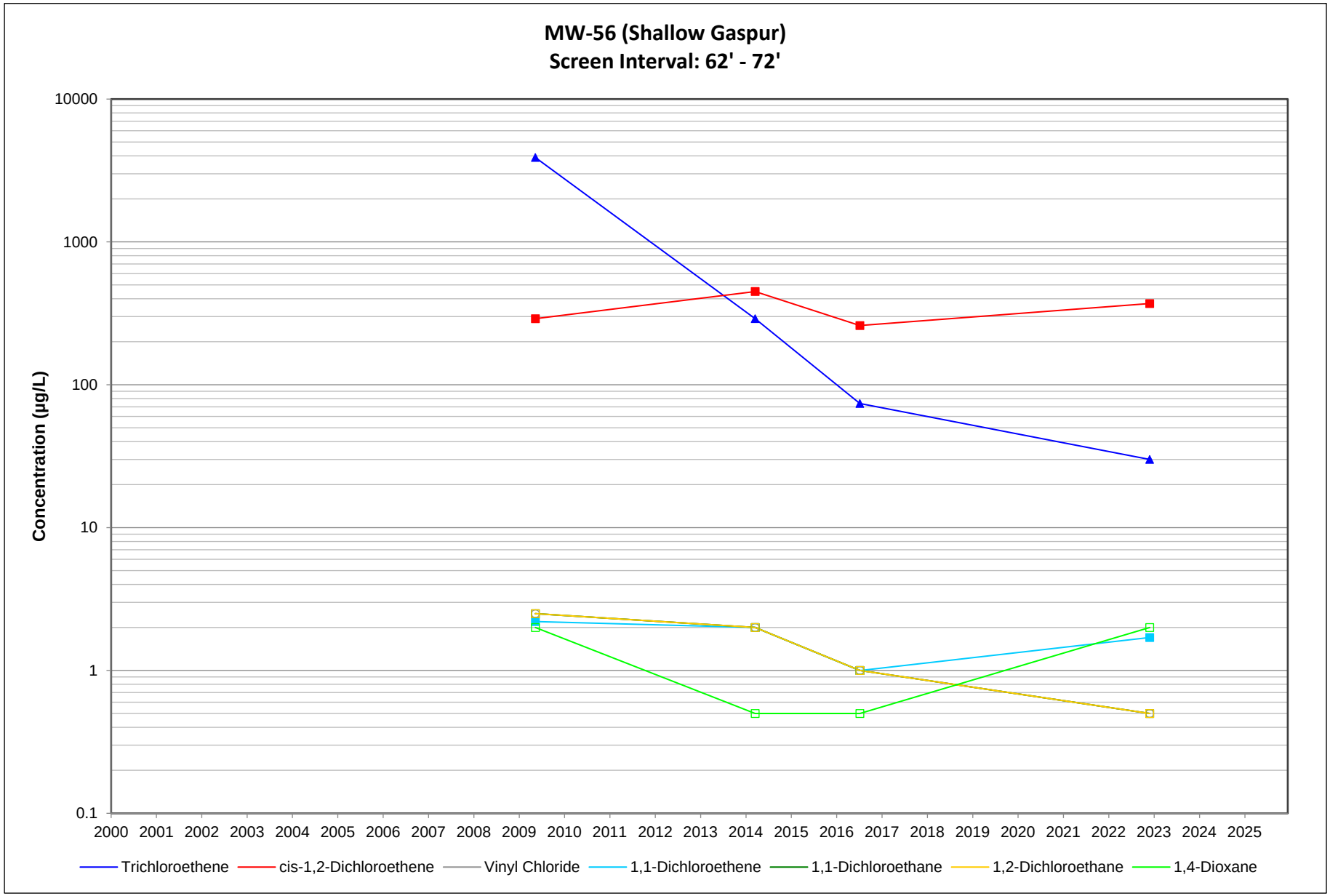
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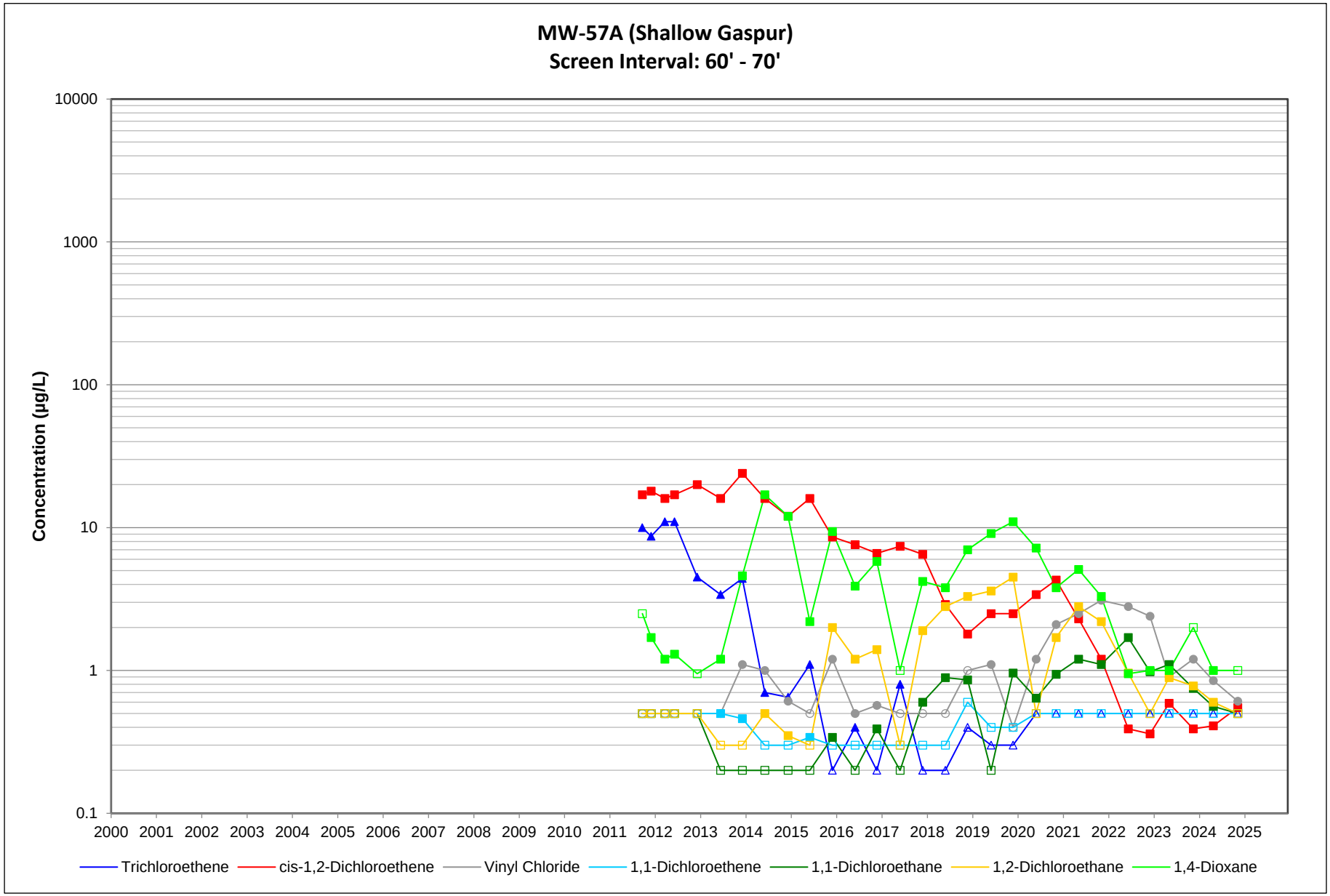
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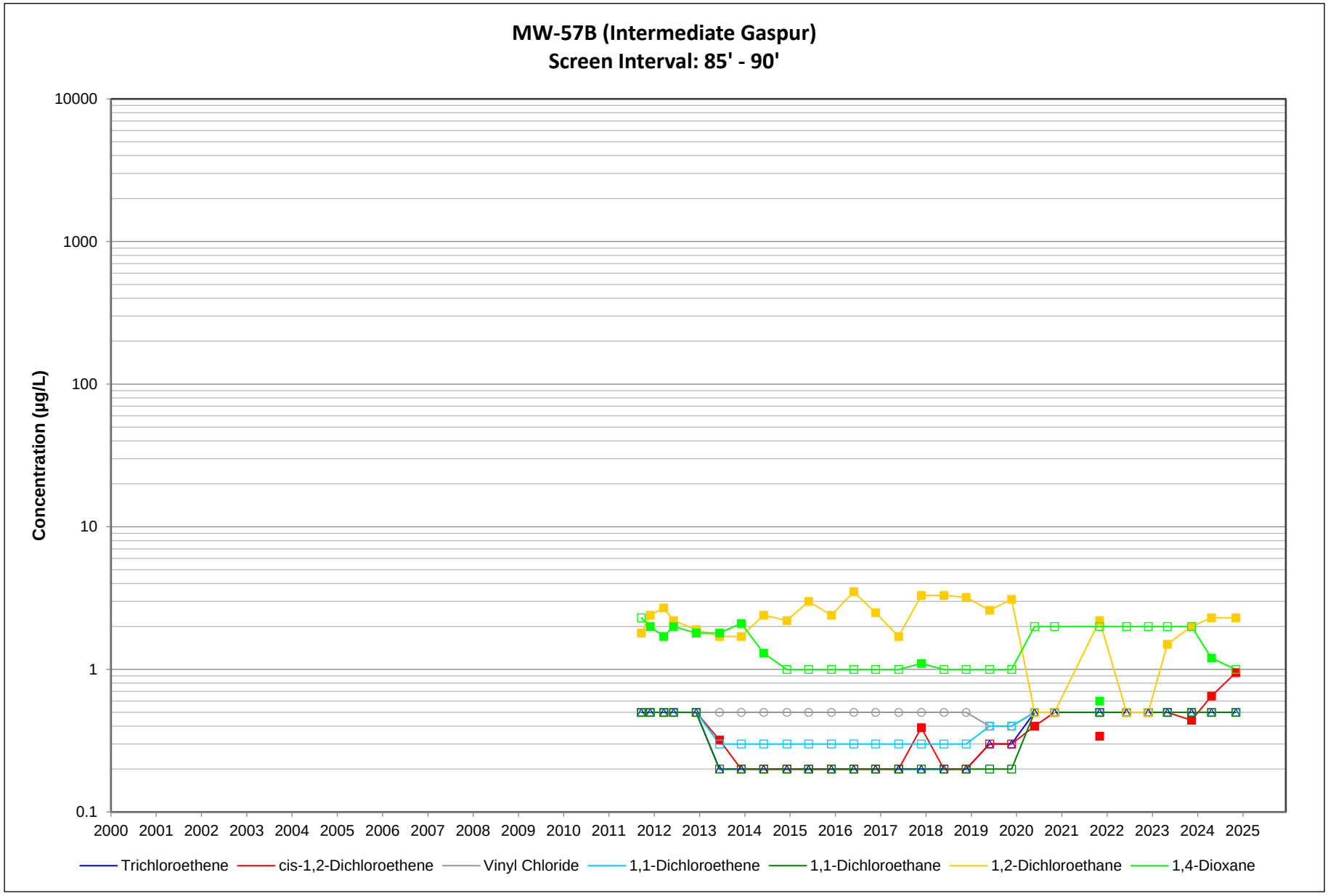
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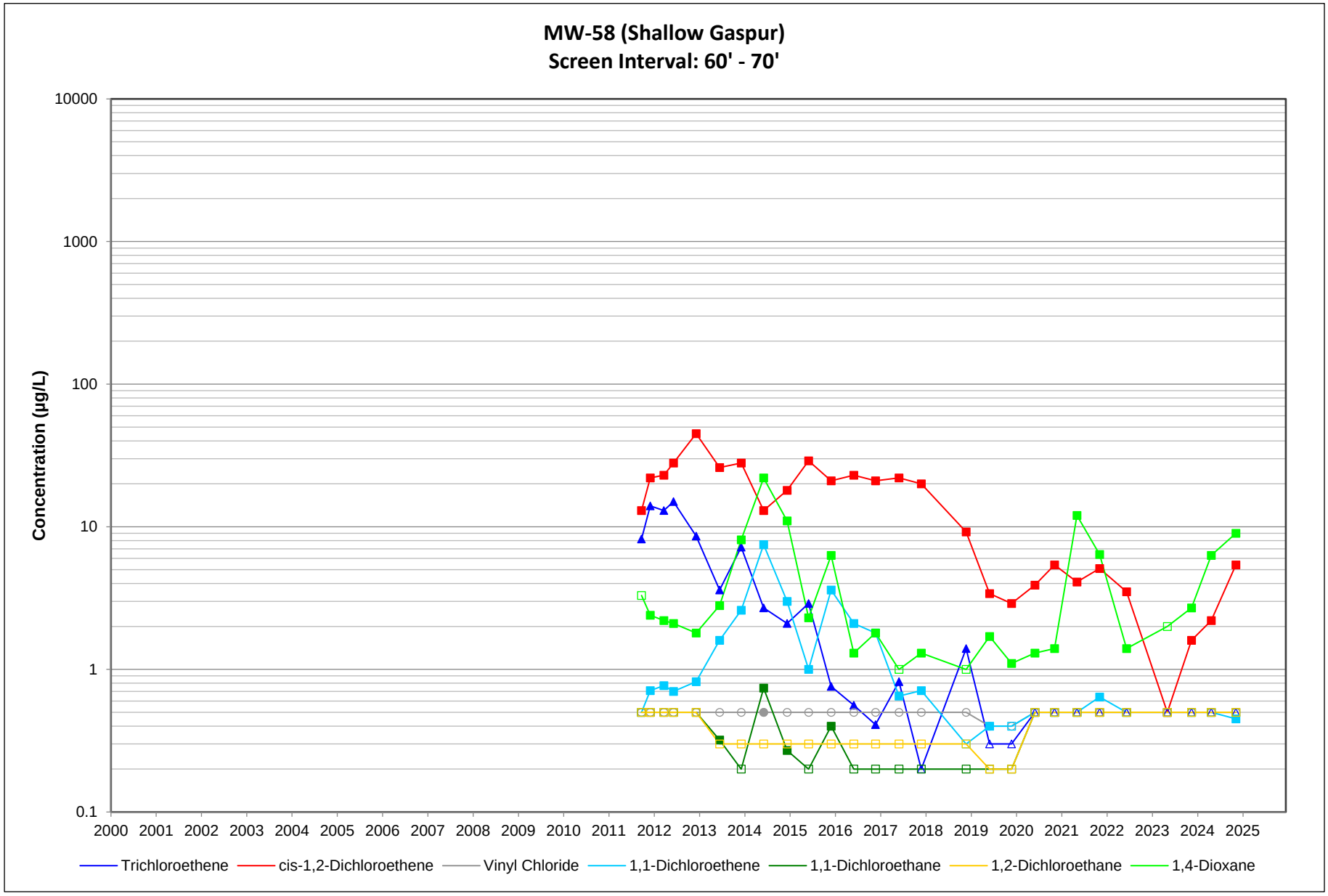
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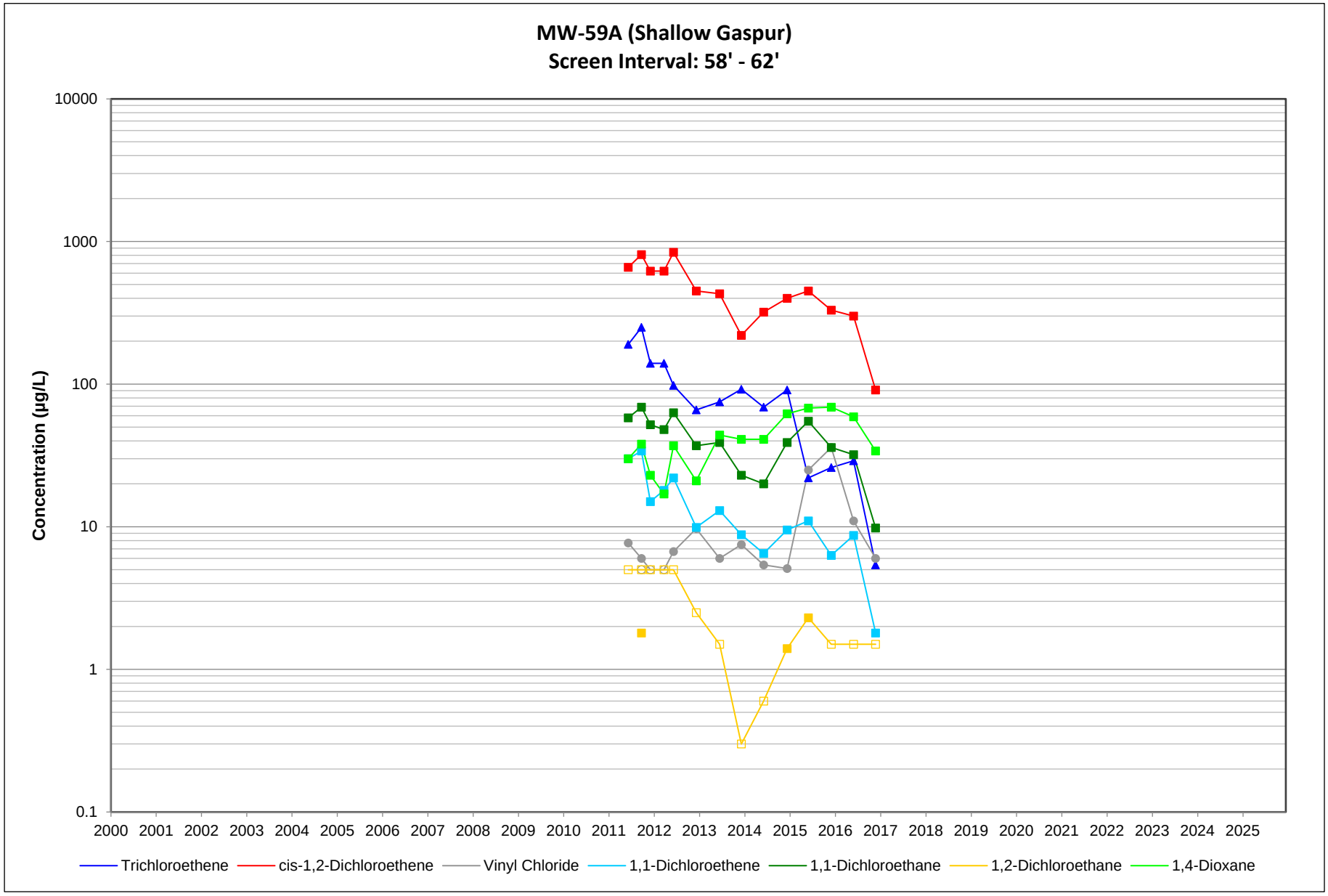
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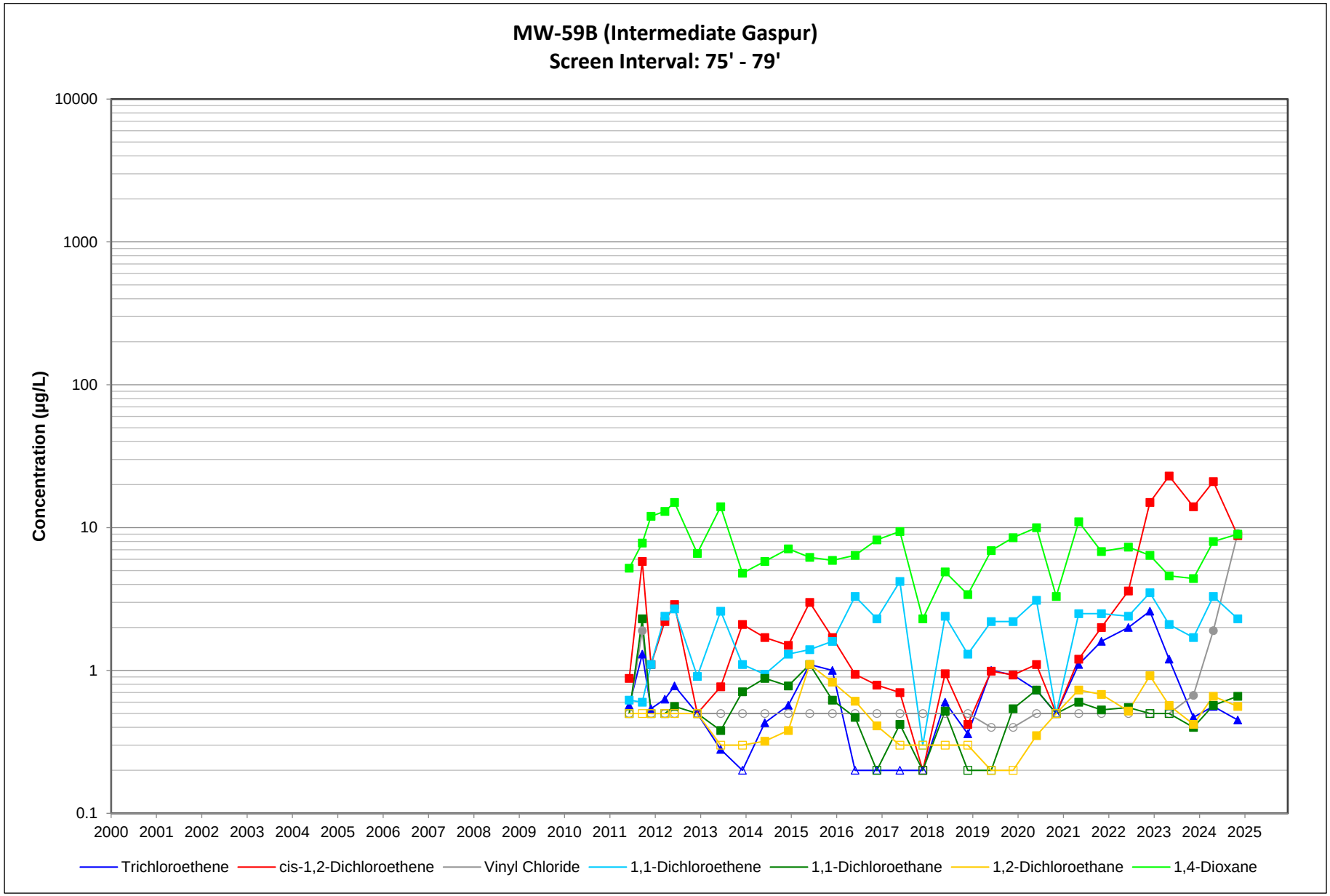
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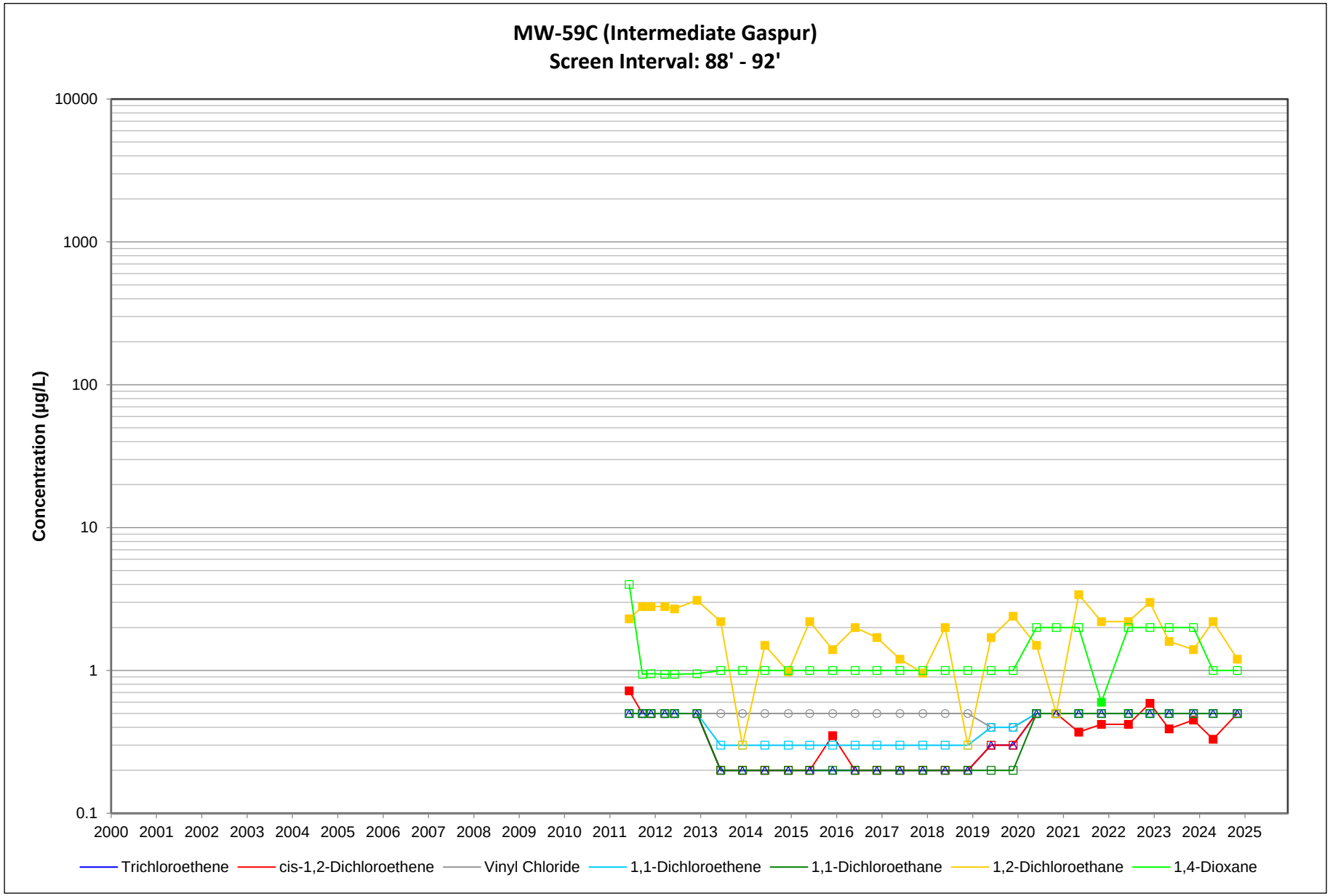
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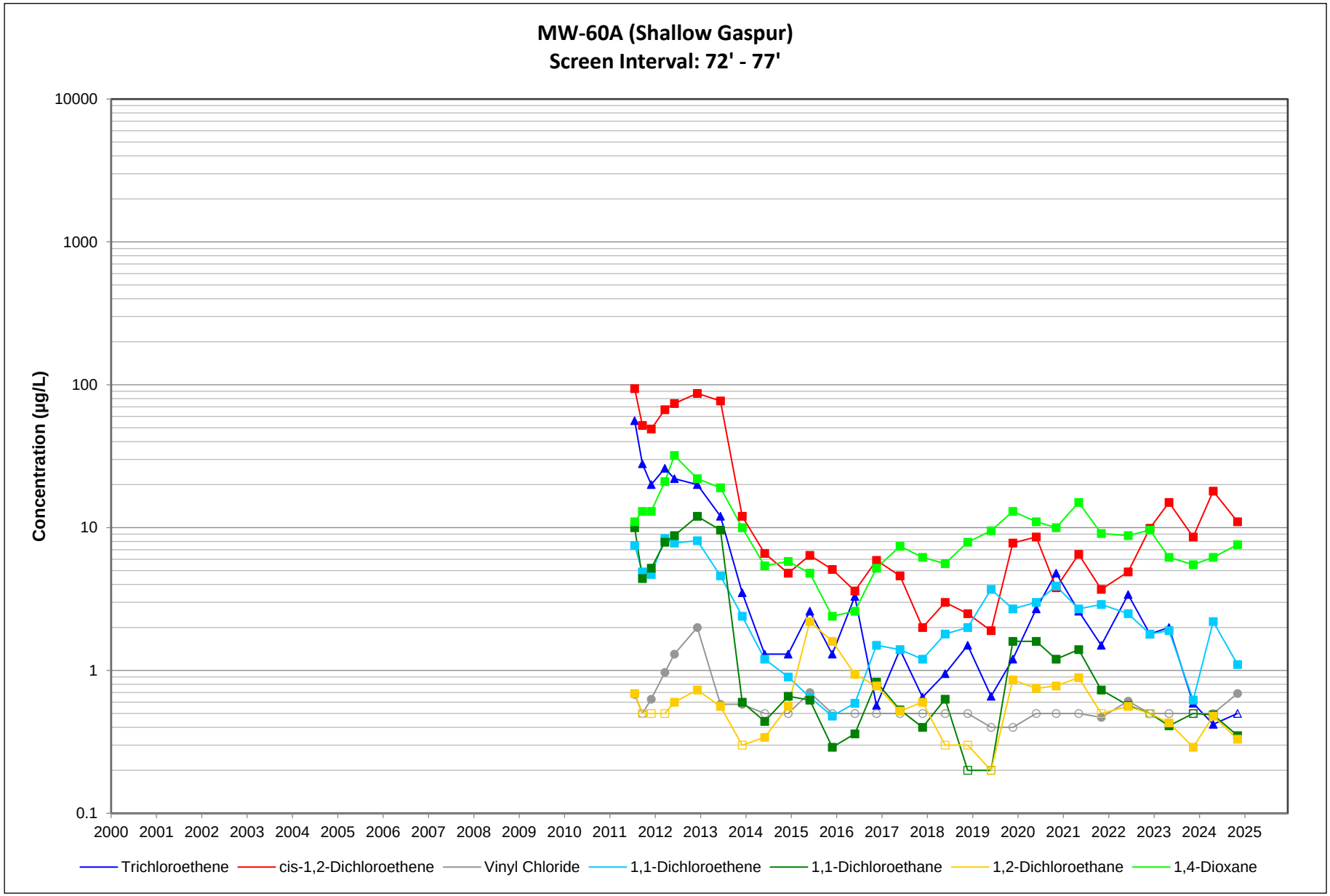
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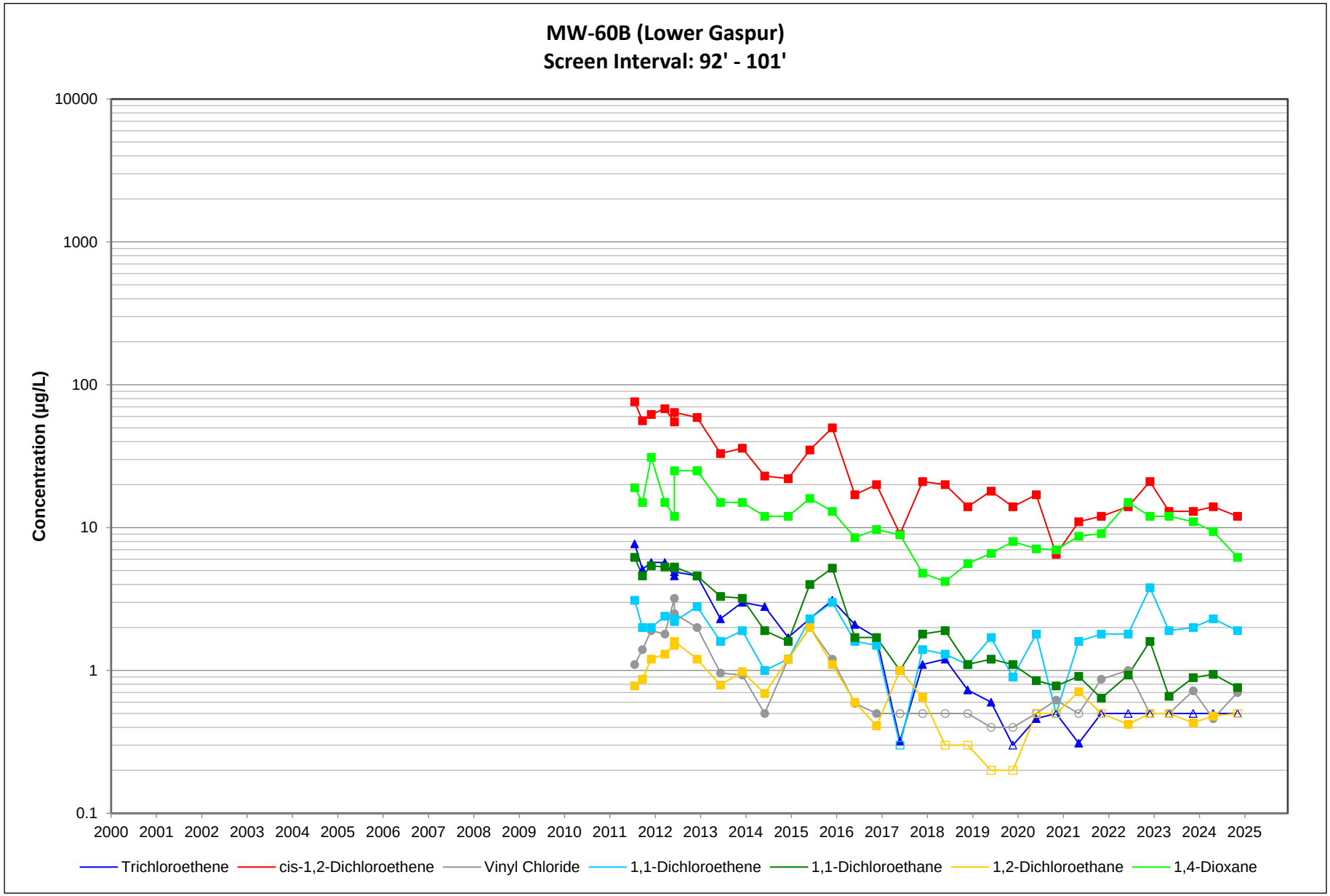
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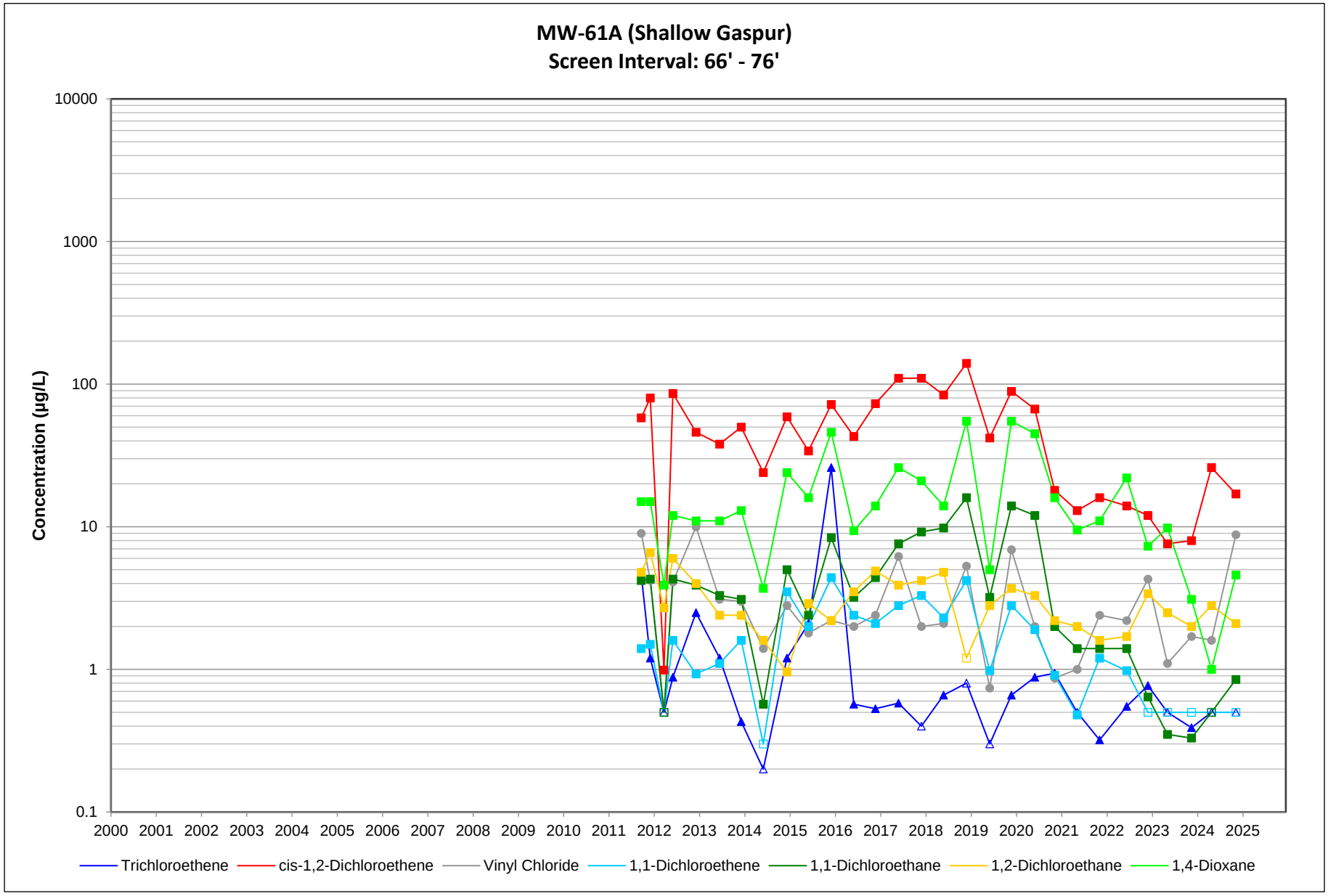
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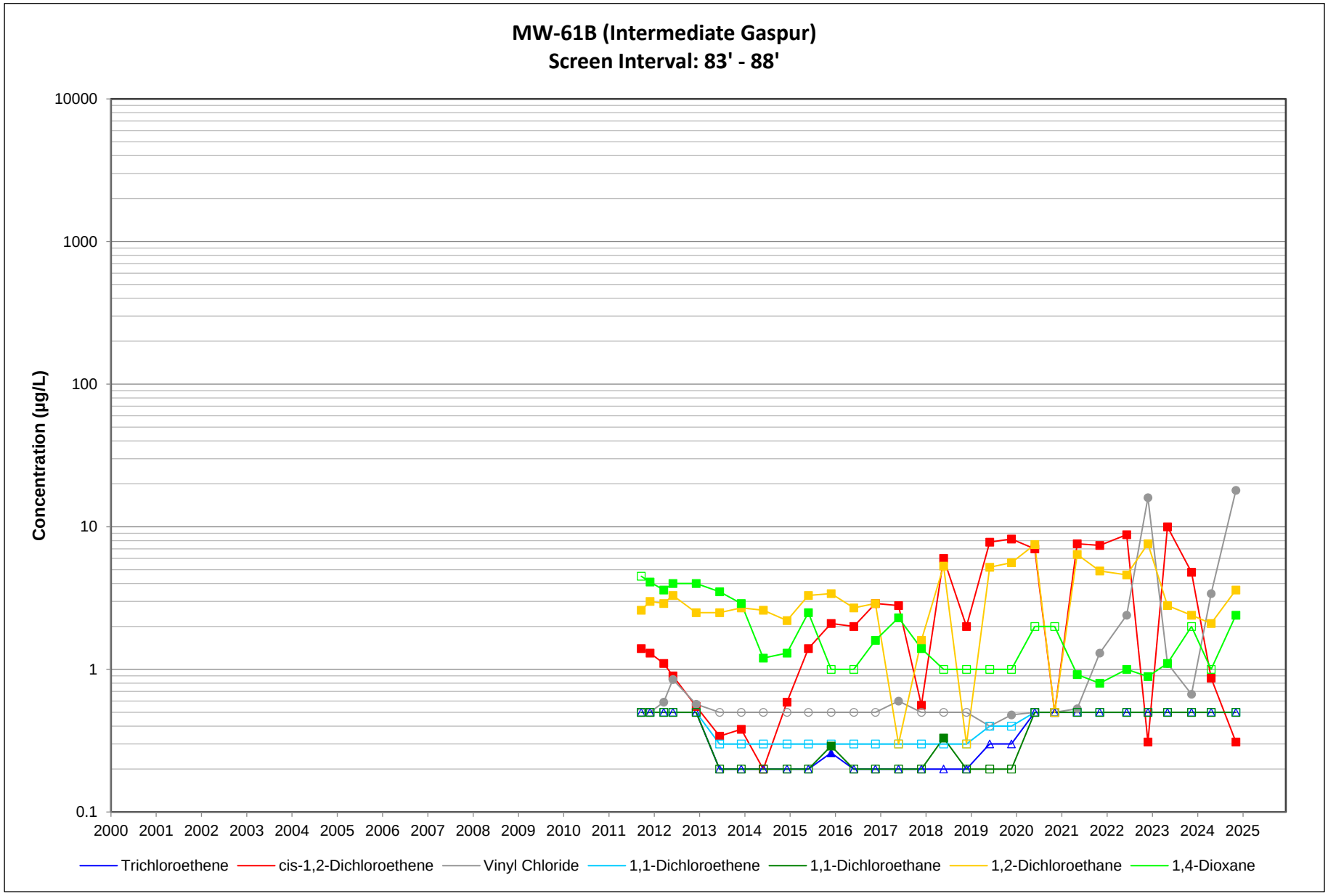
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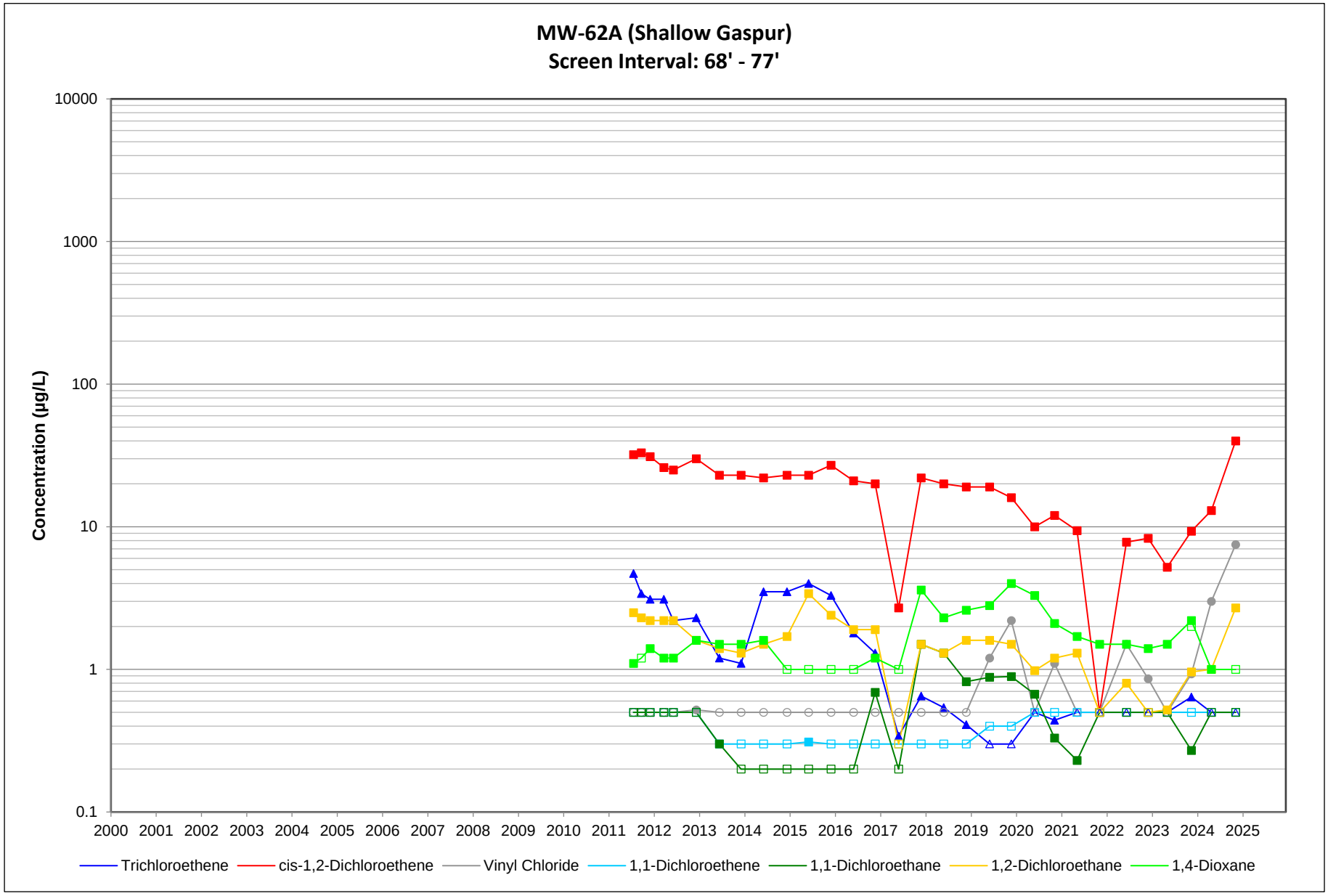
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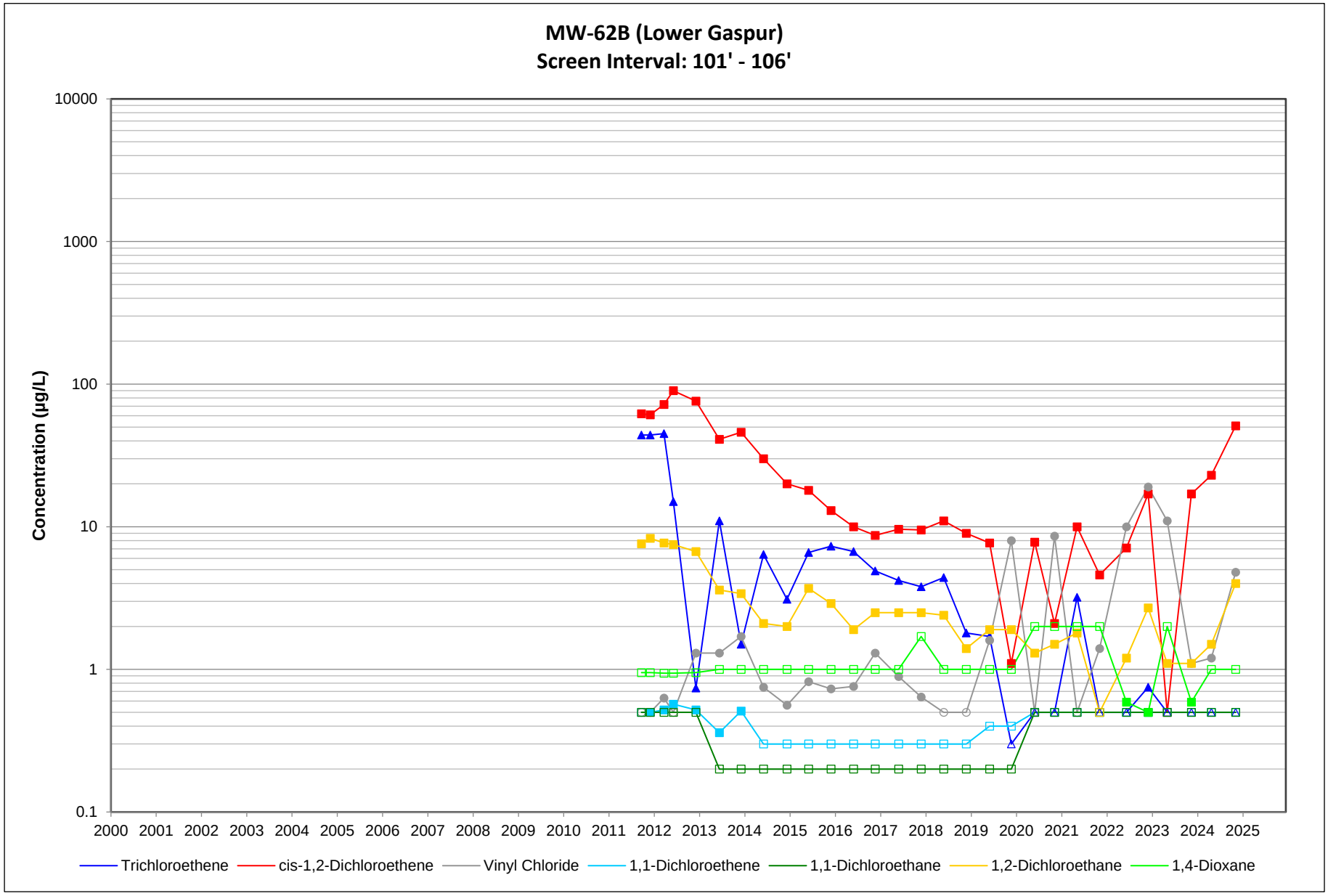
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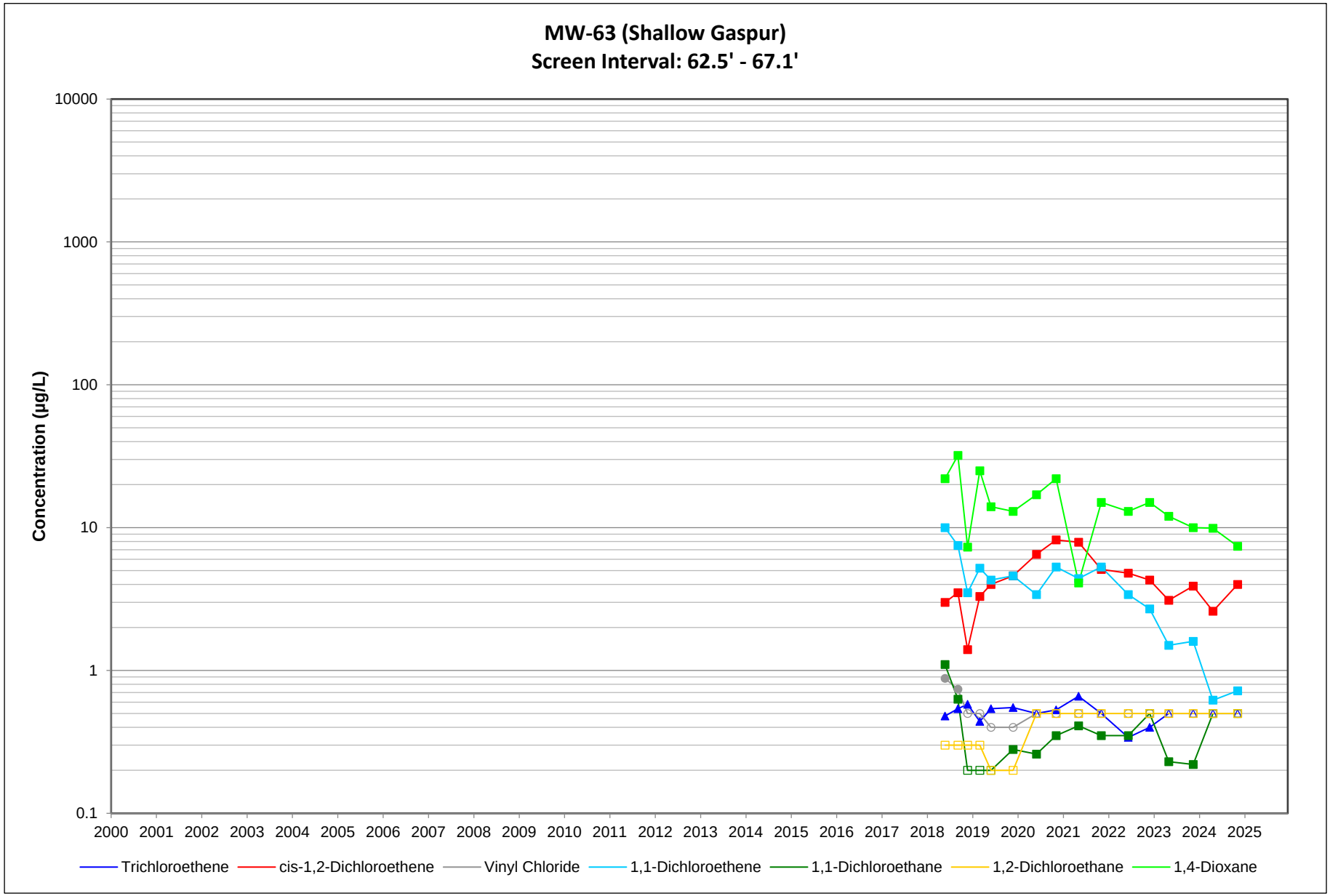
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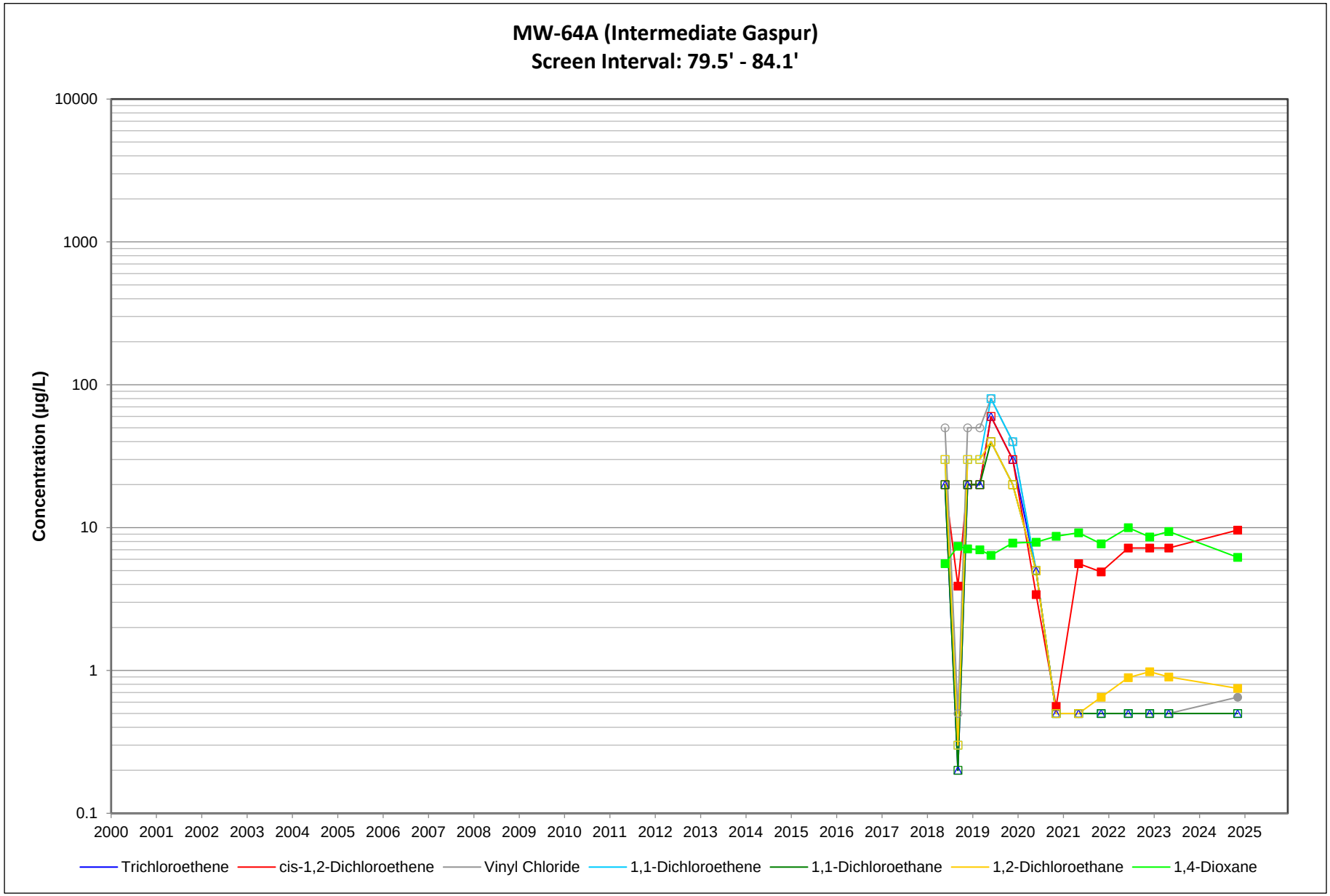
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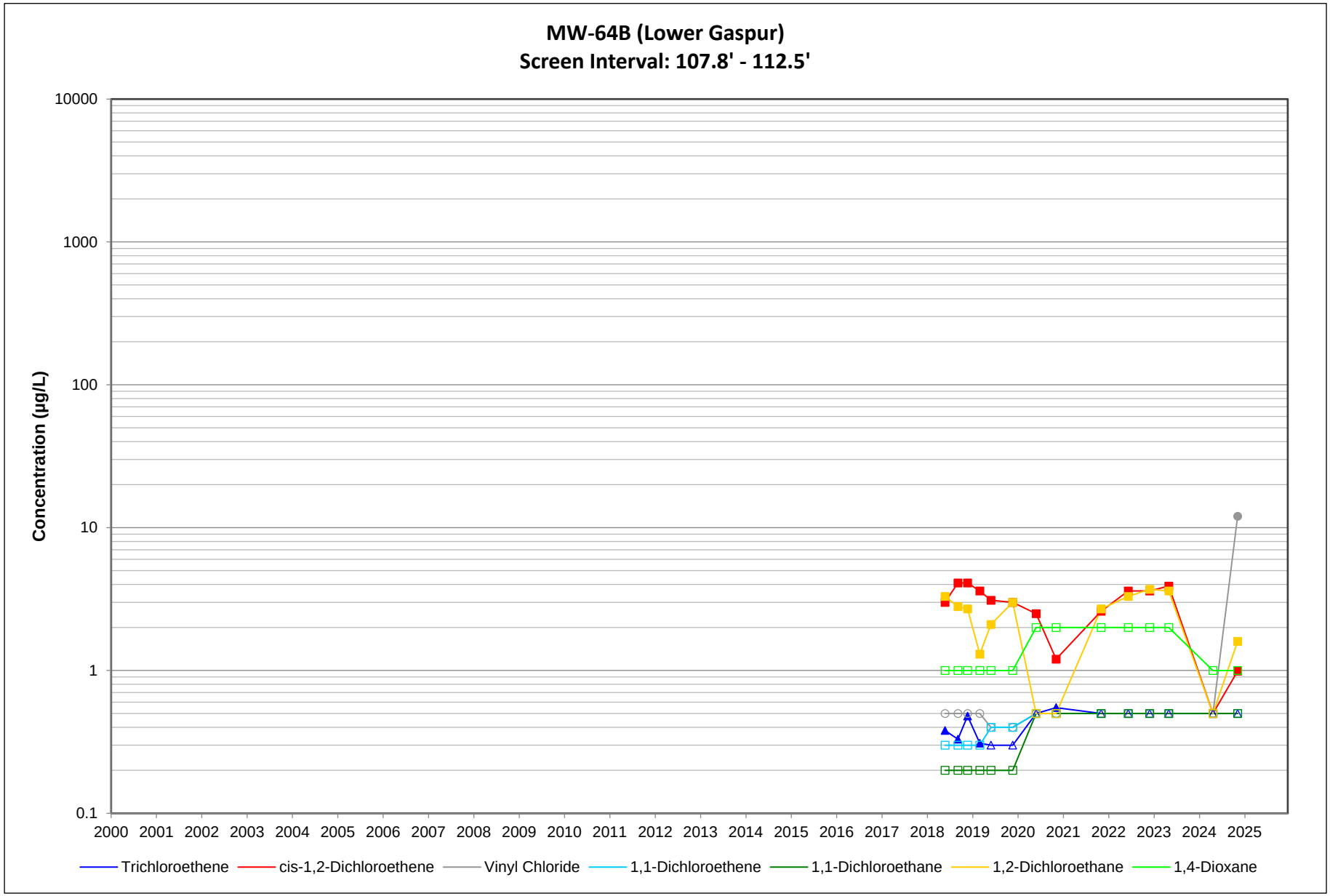
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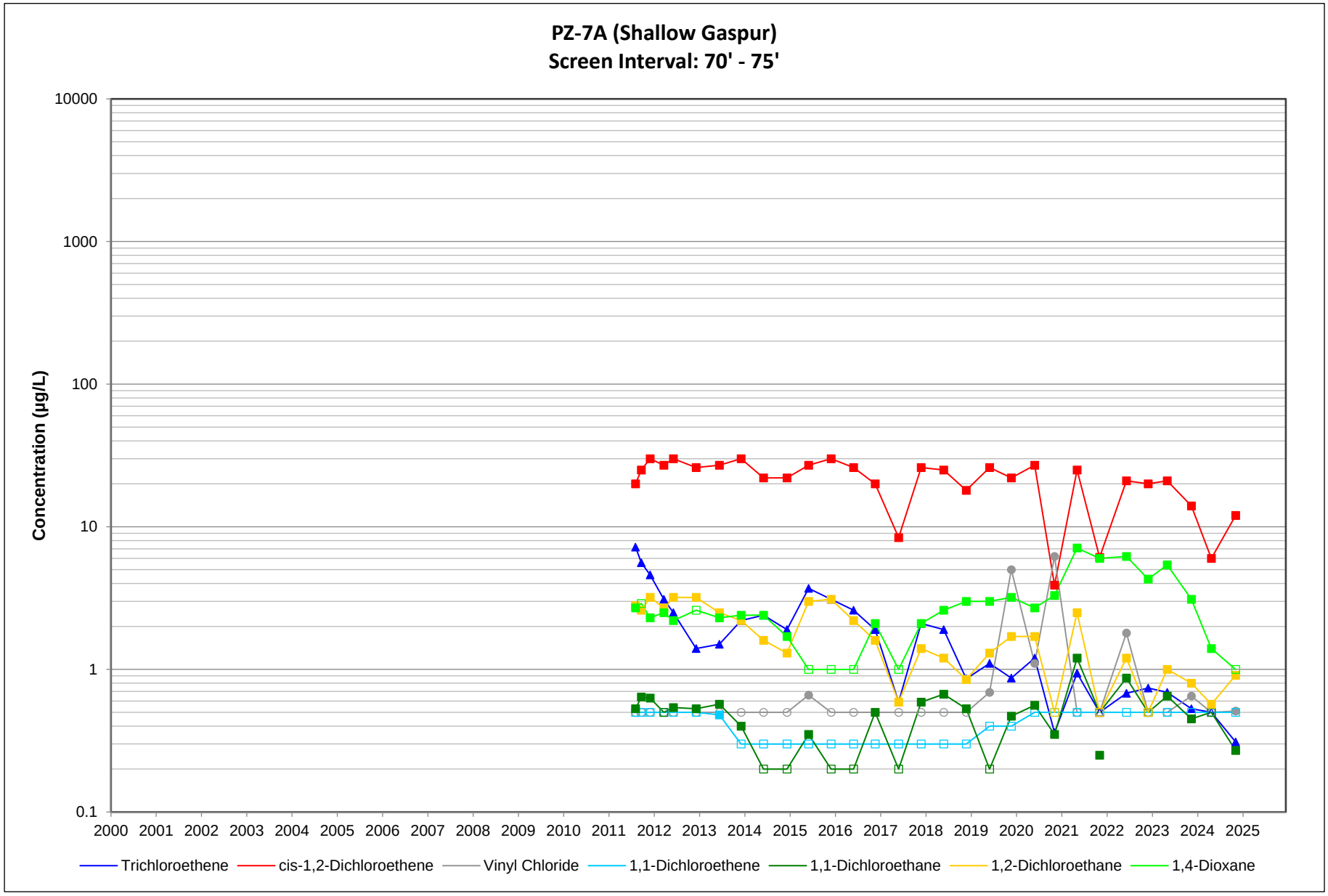
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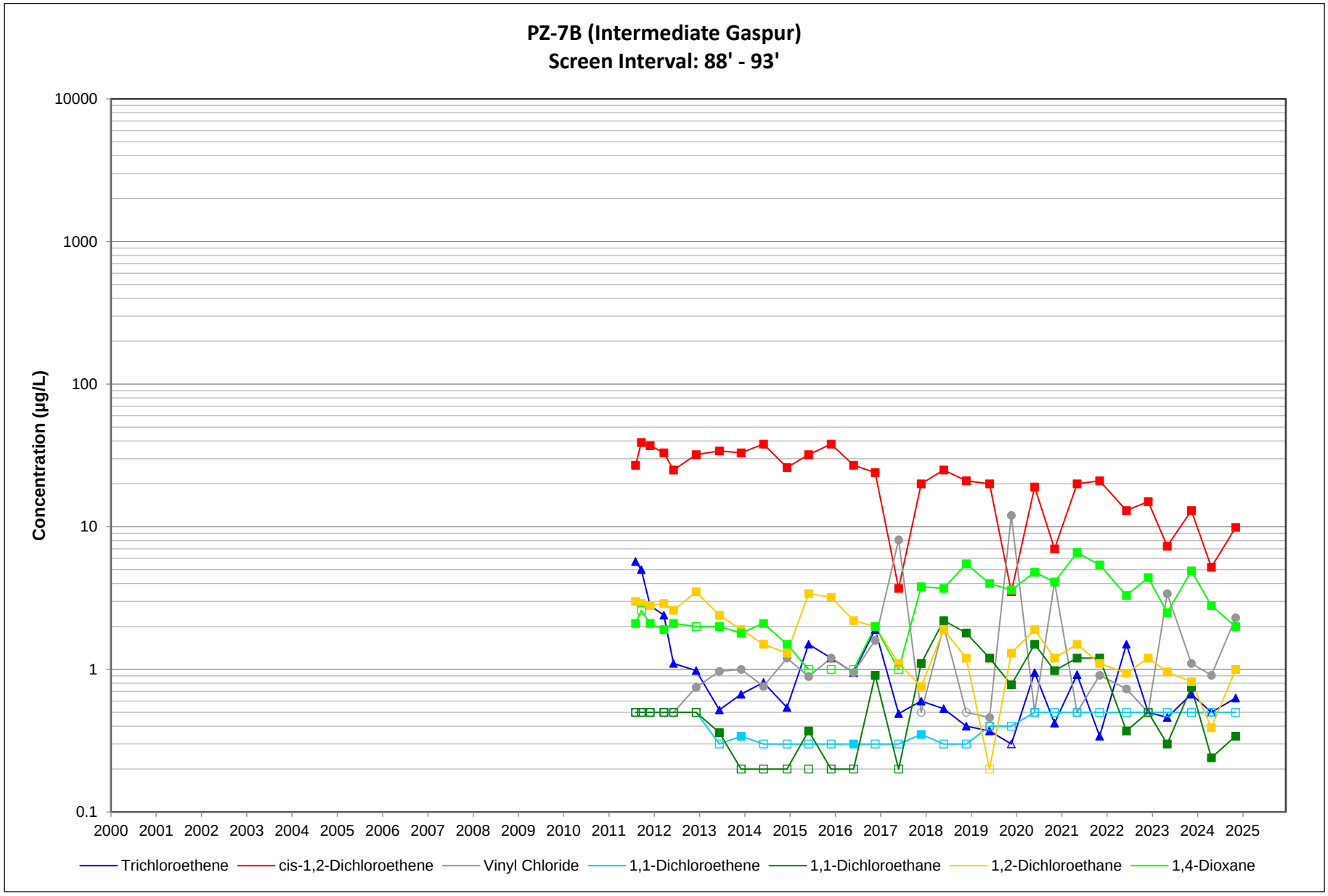
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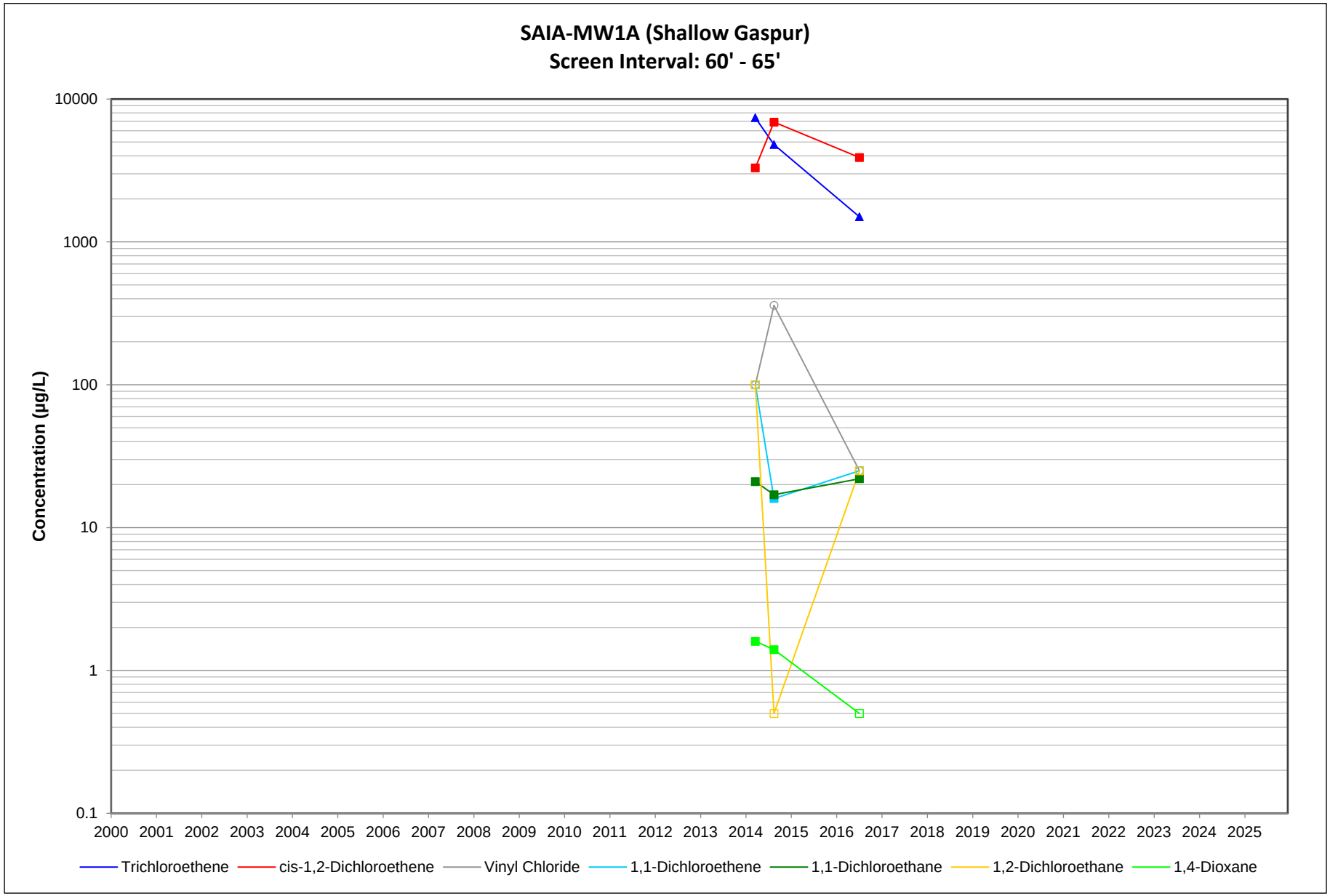
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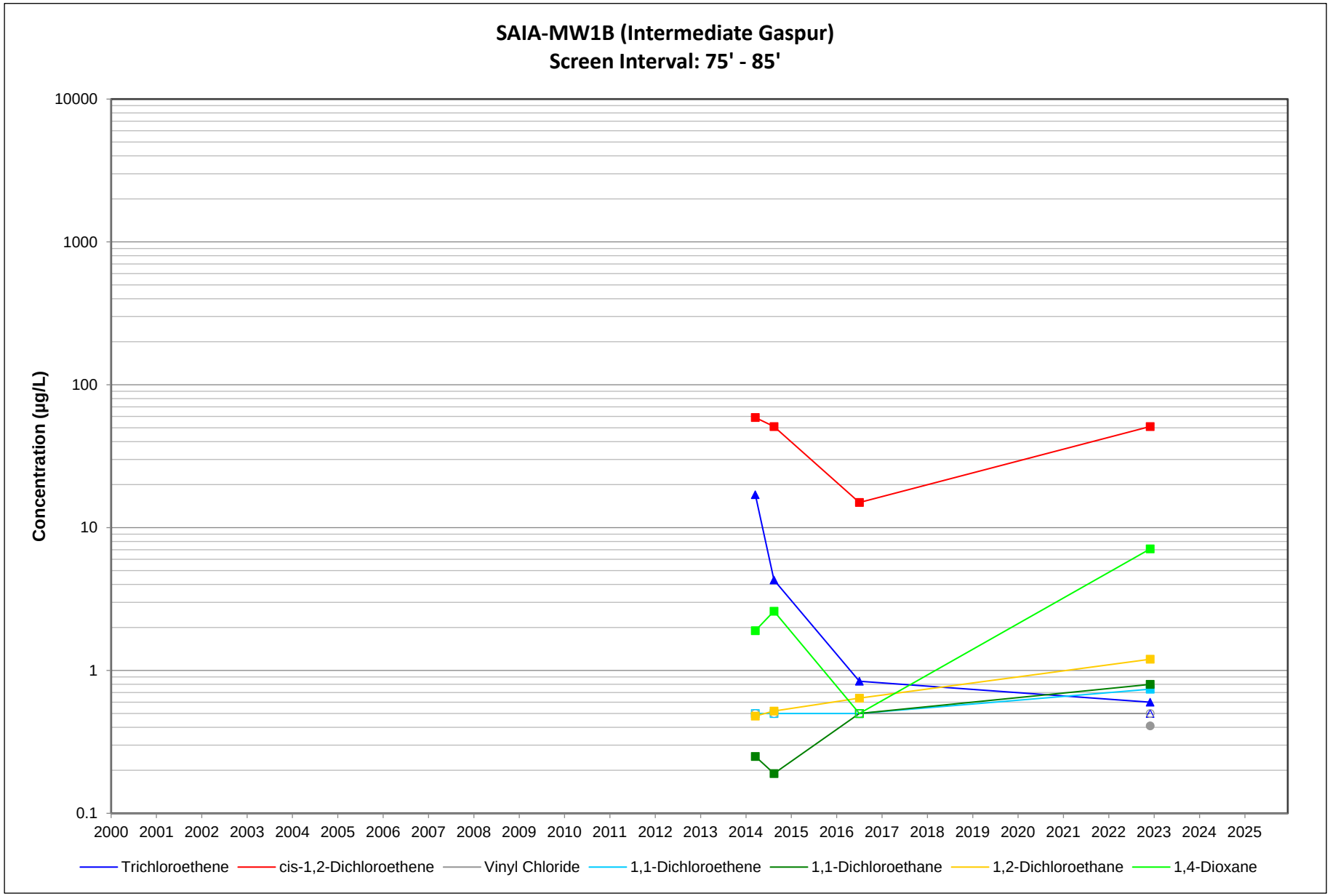
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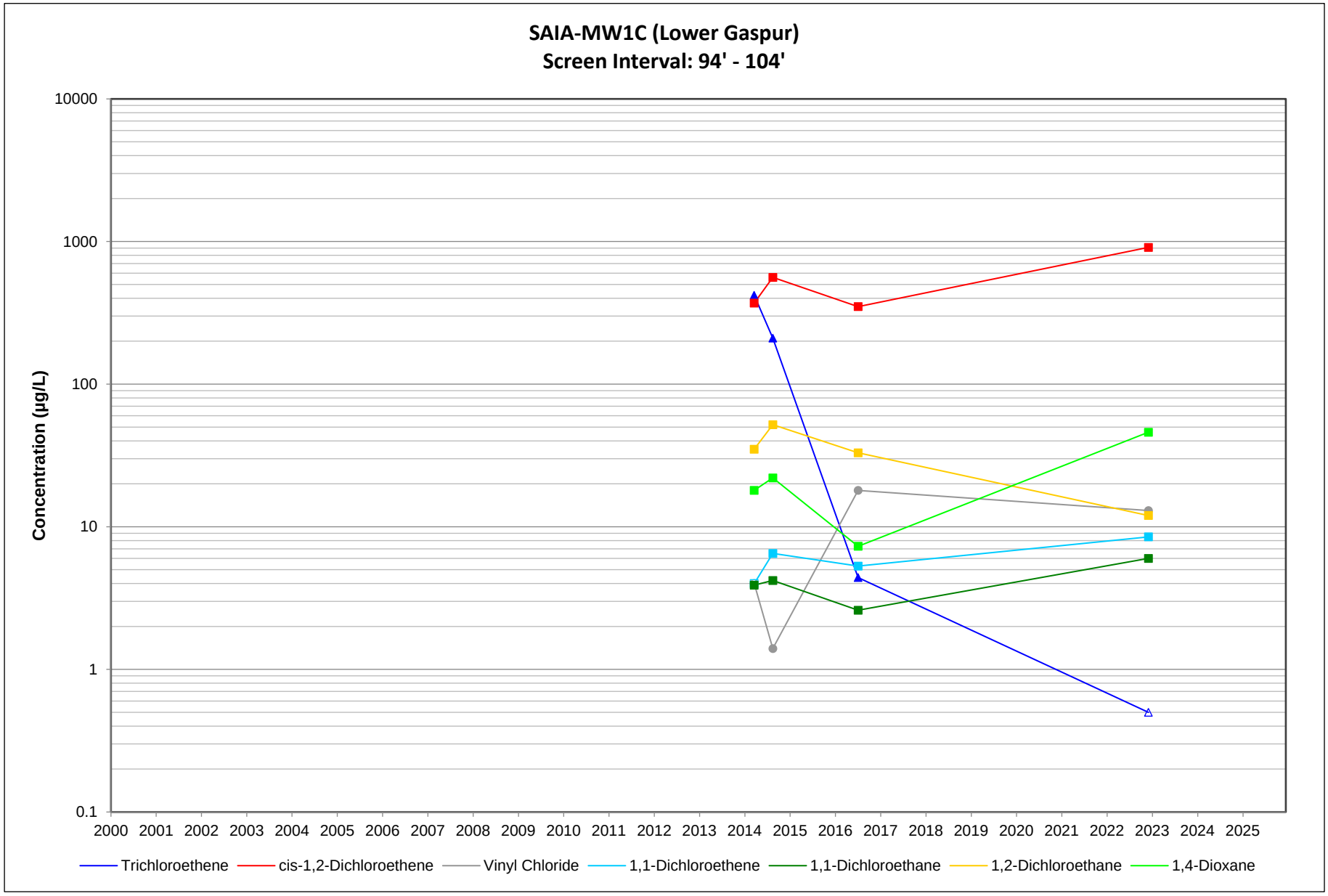
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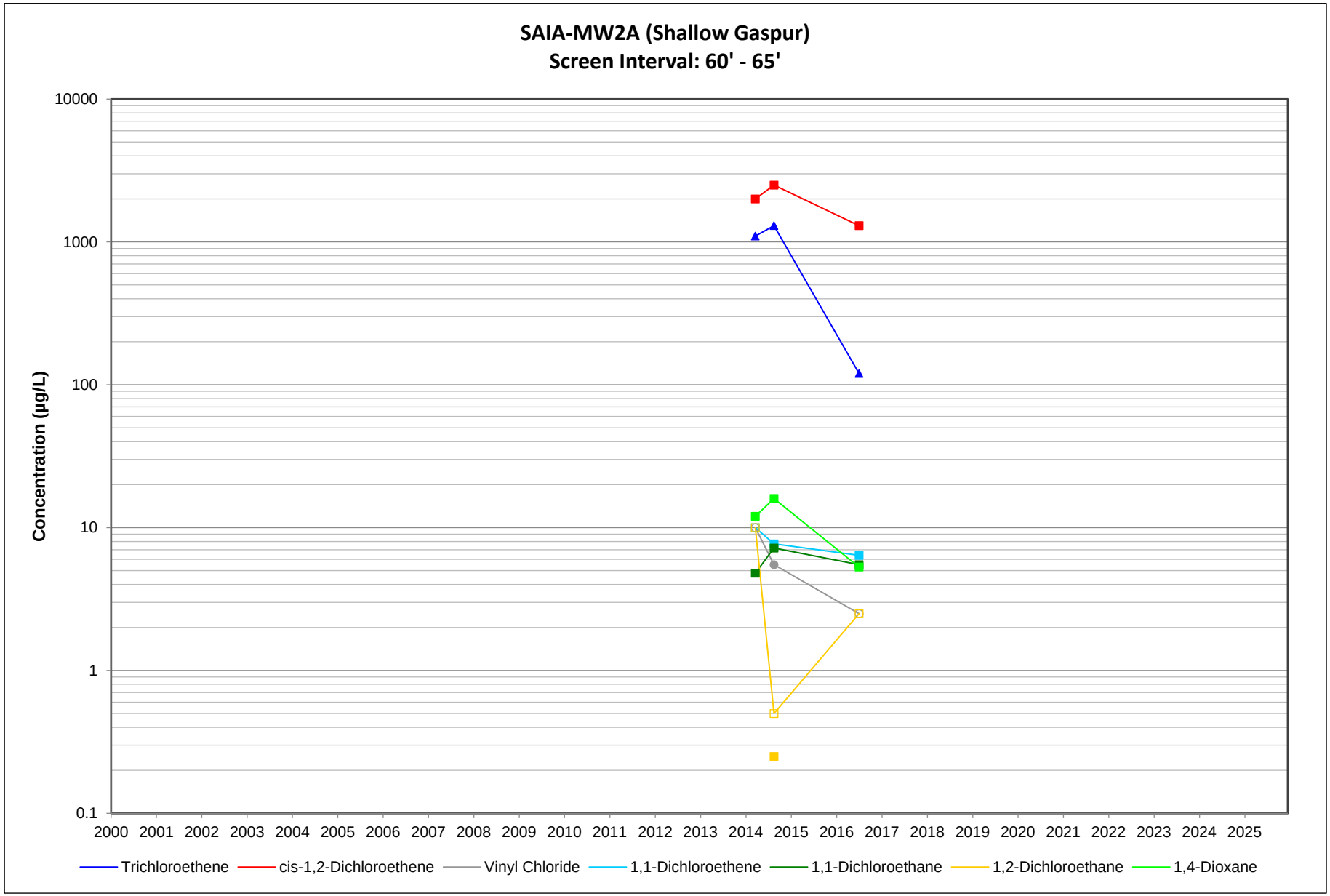
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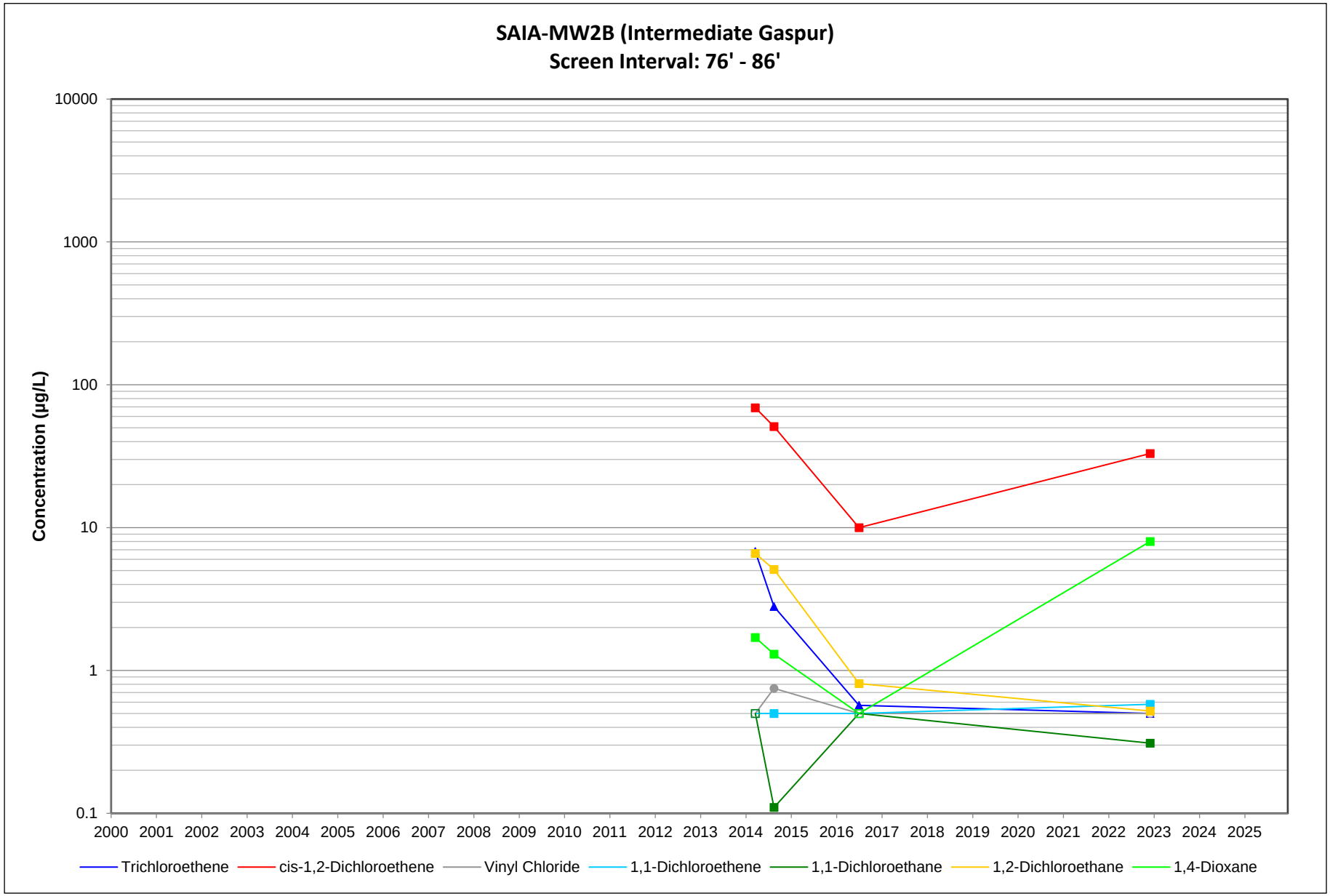
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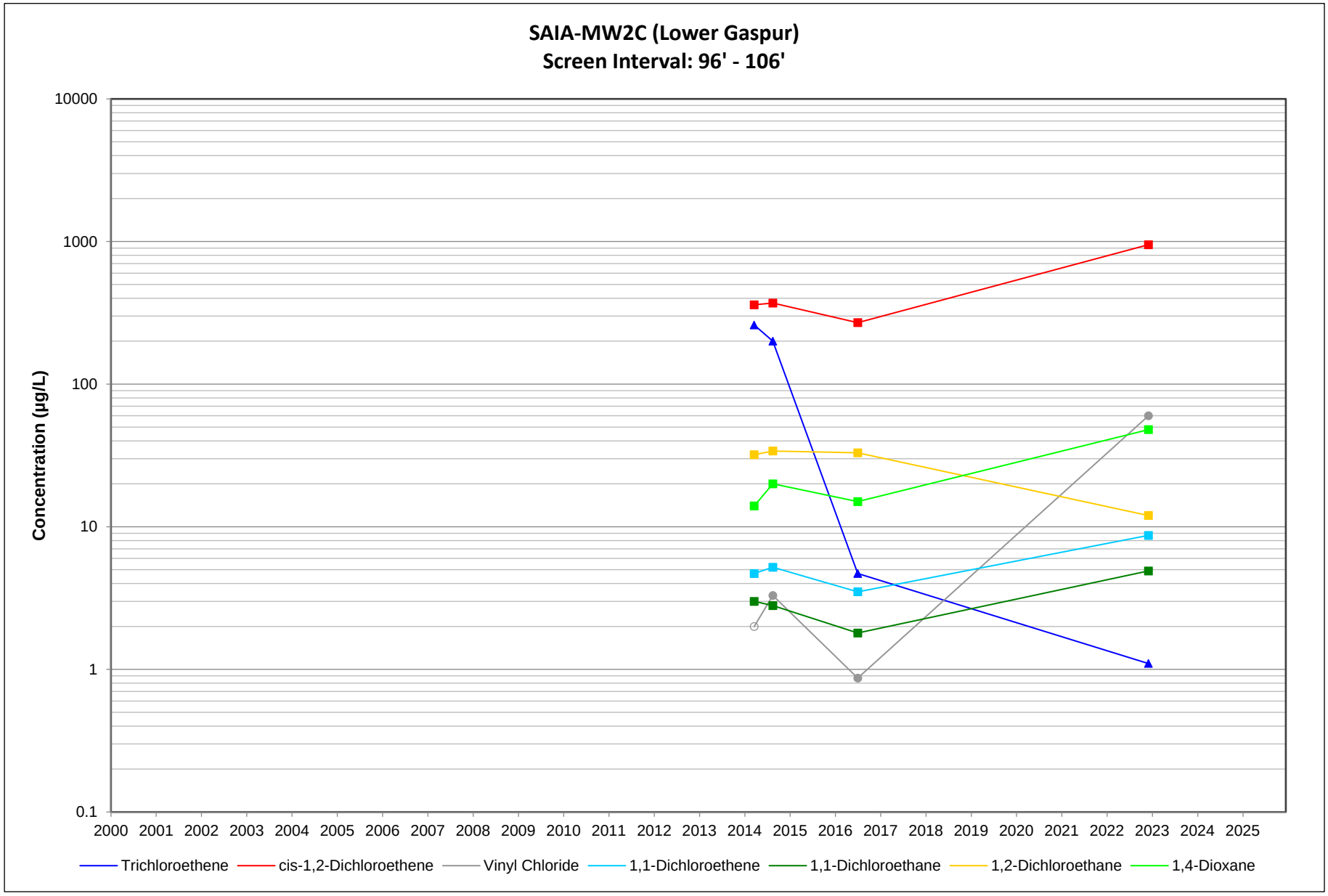
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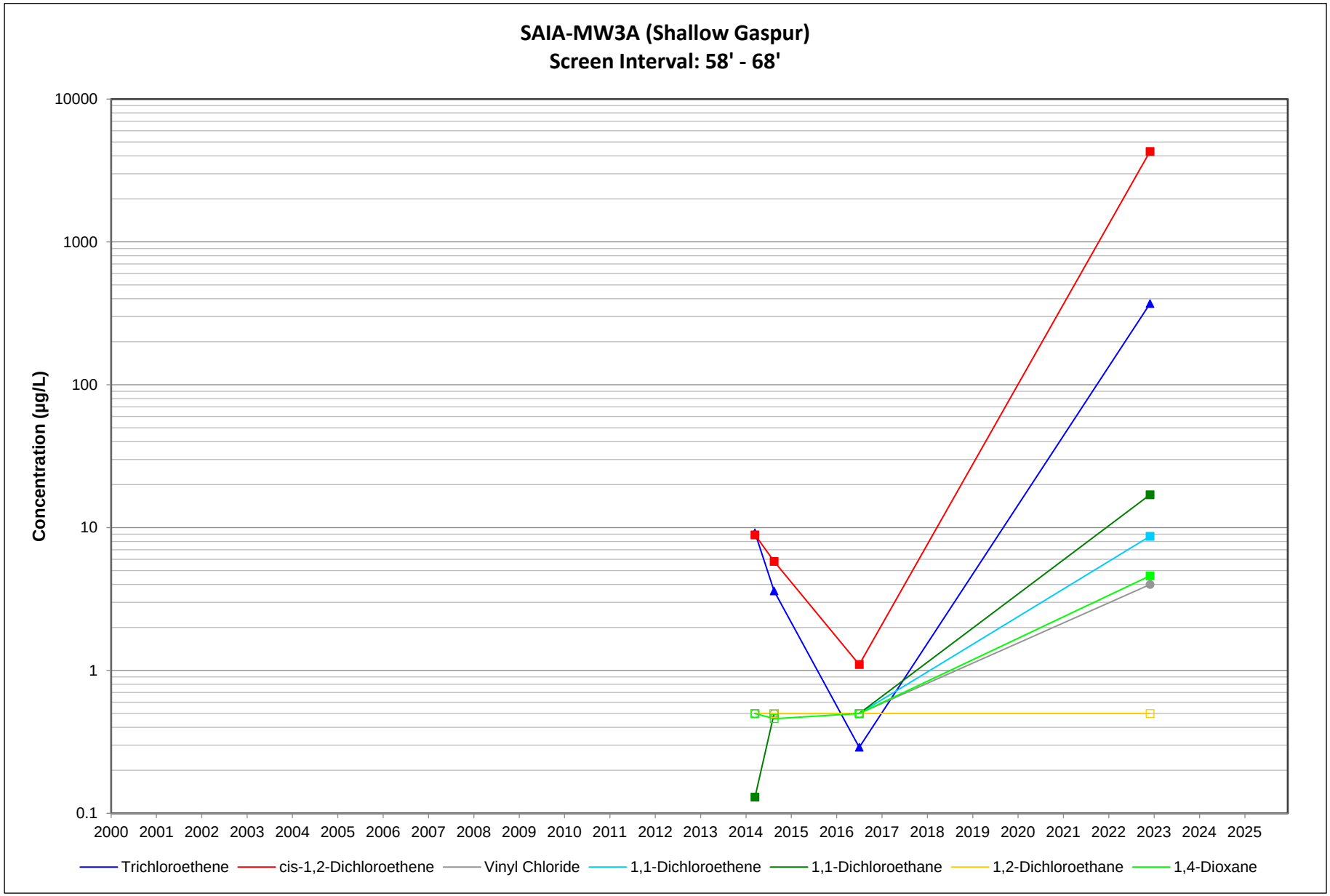
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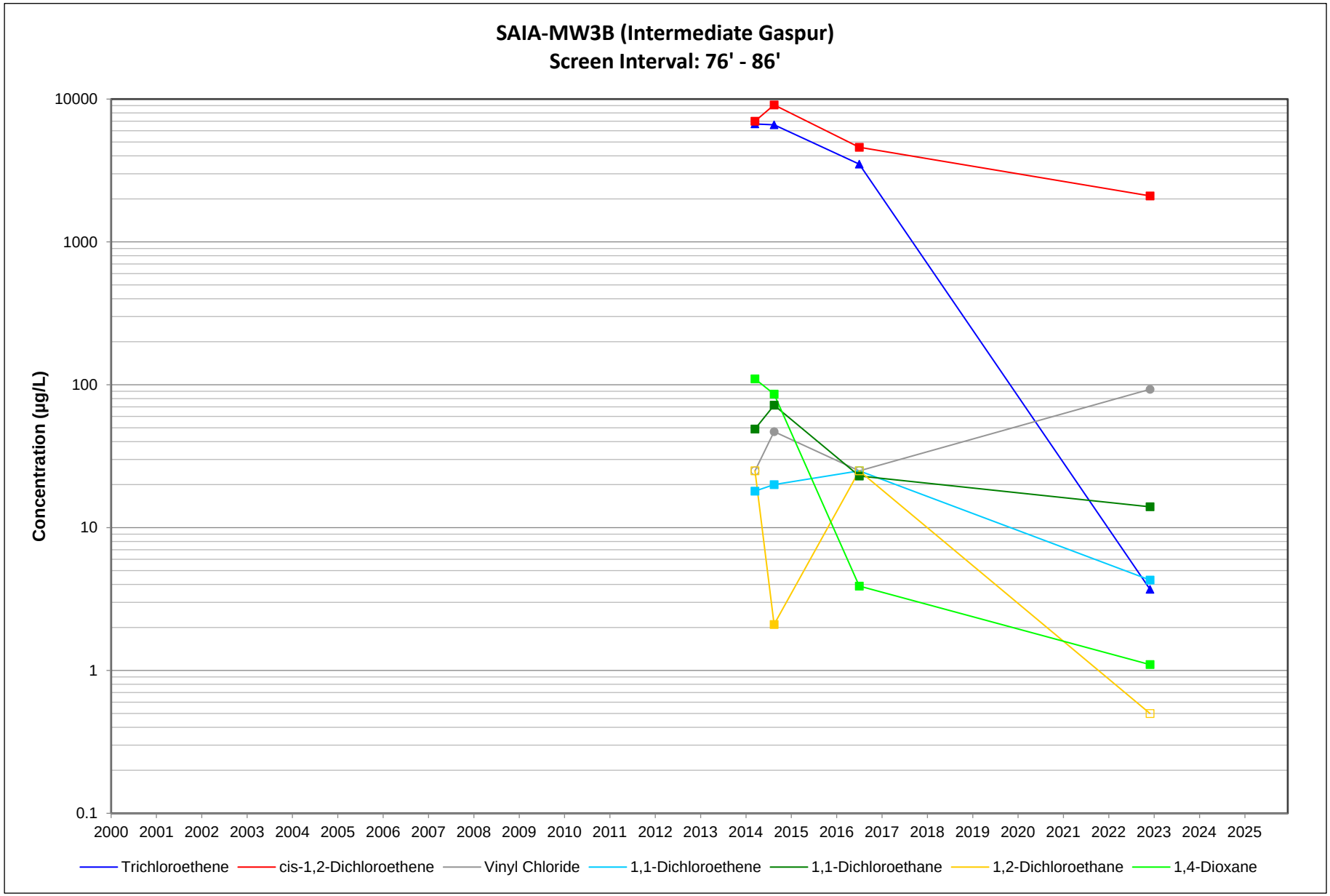
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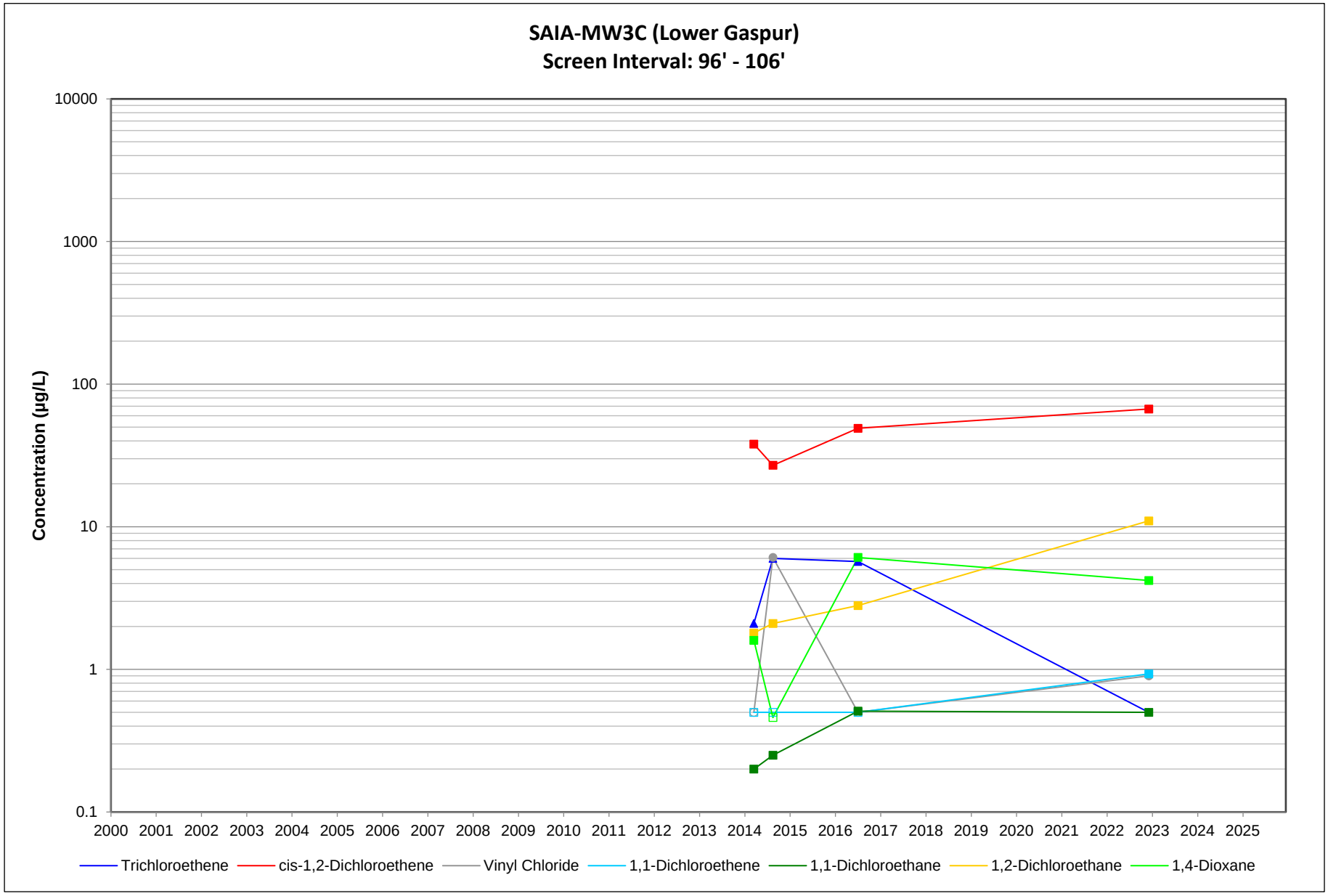
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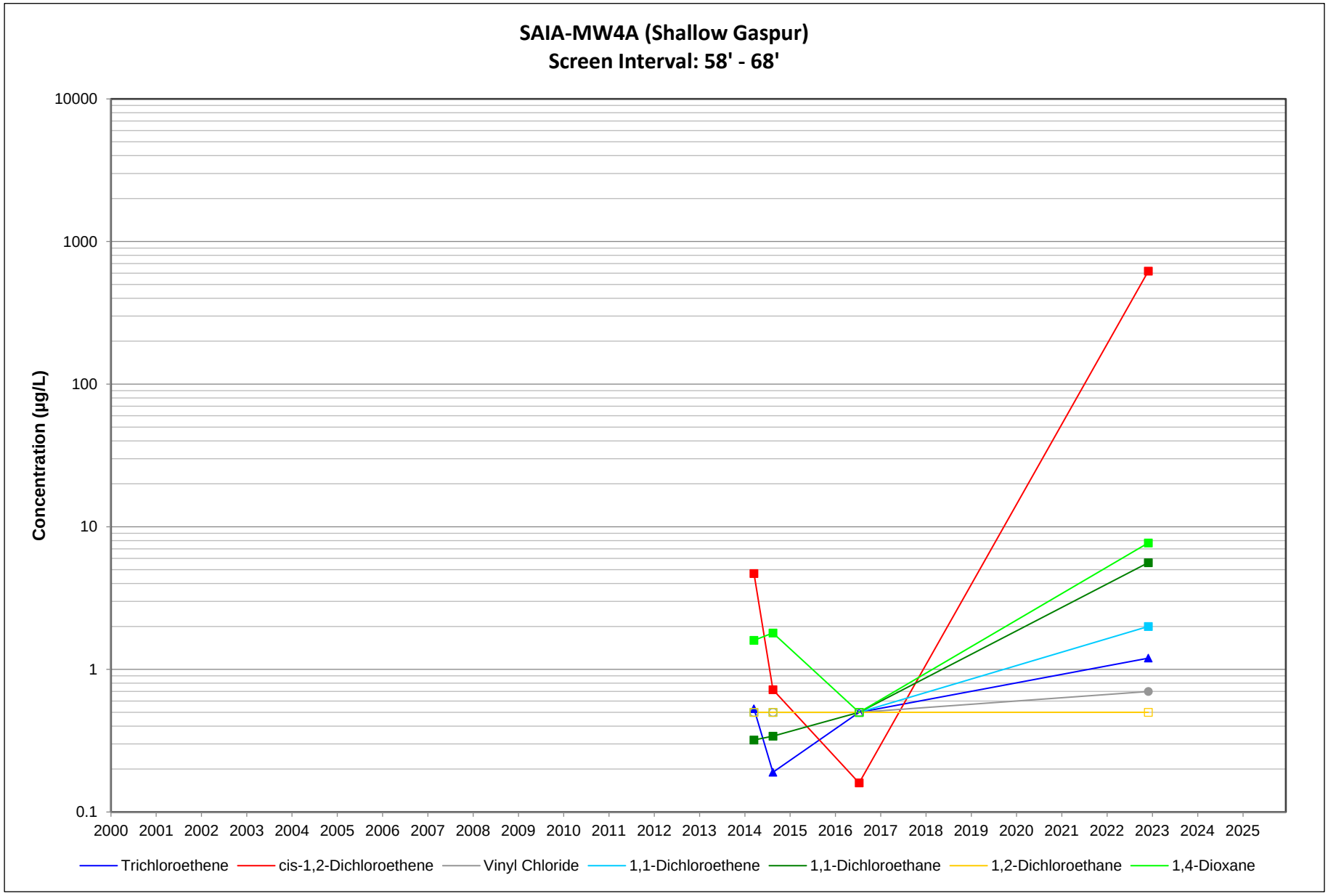
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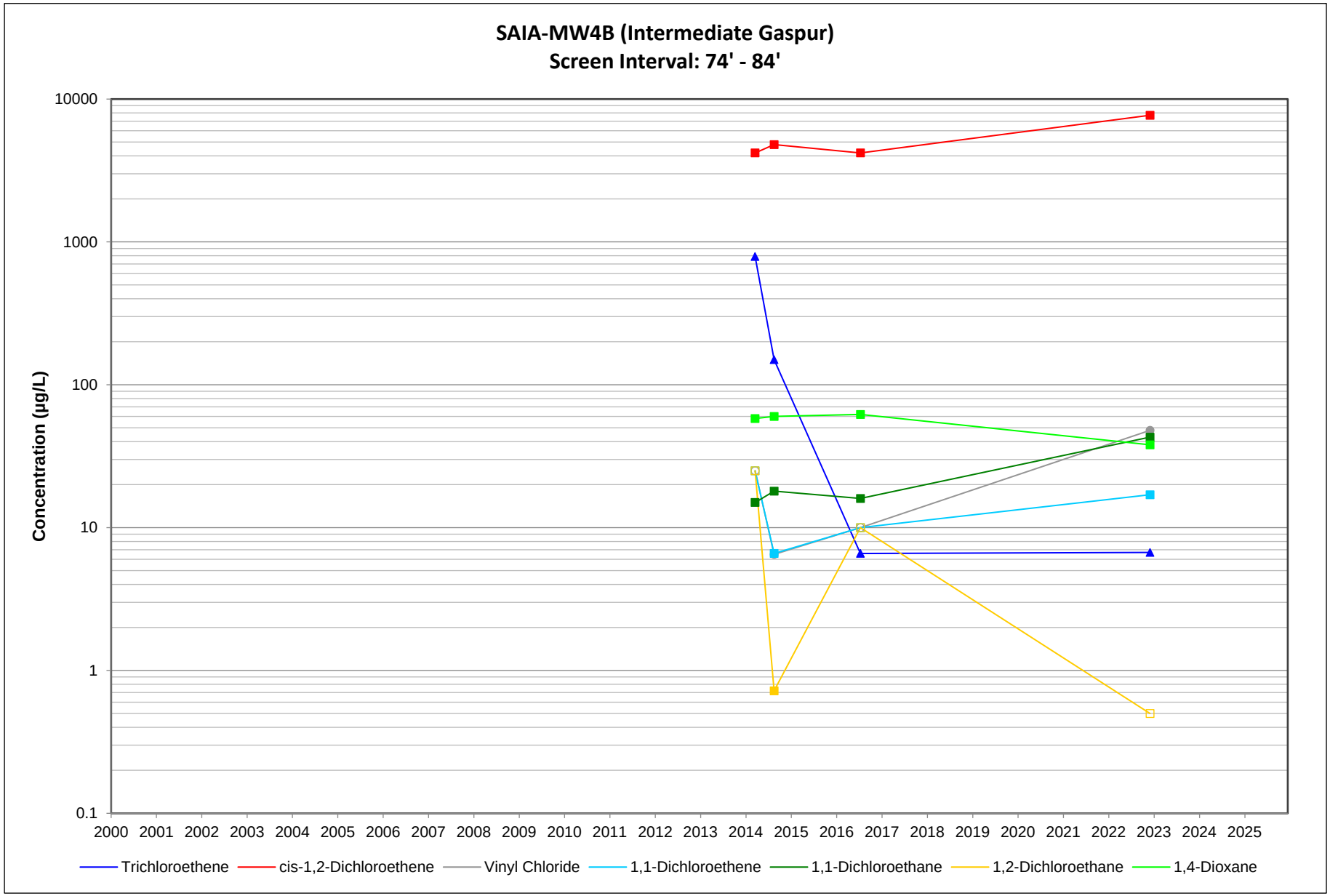
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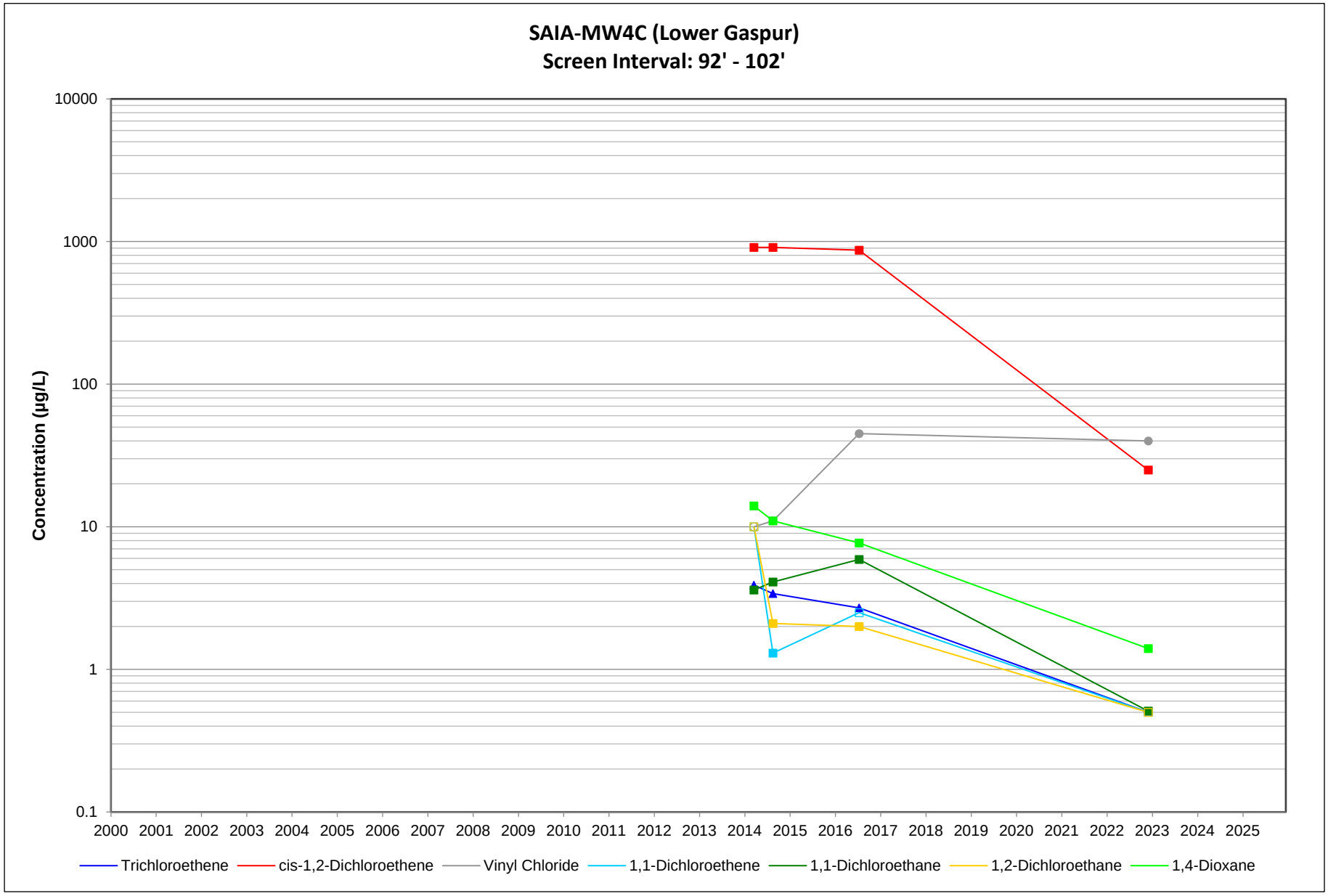
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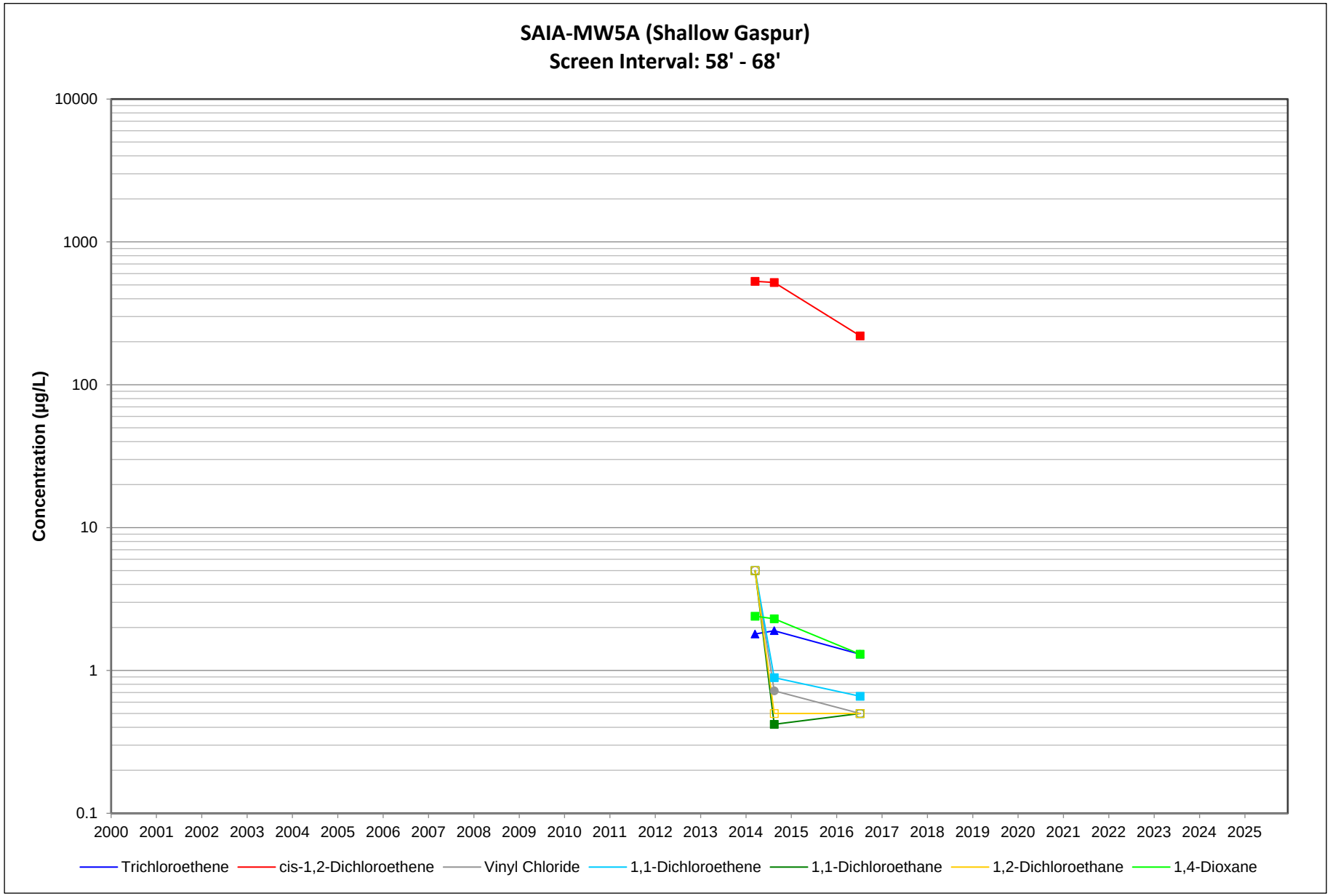
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FEBRUARY 2025



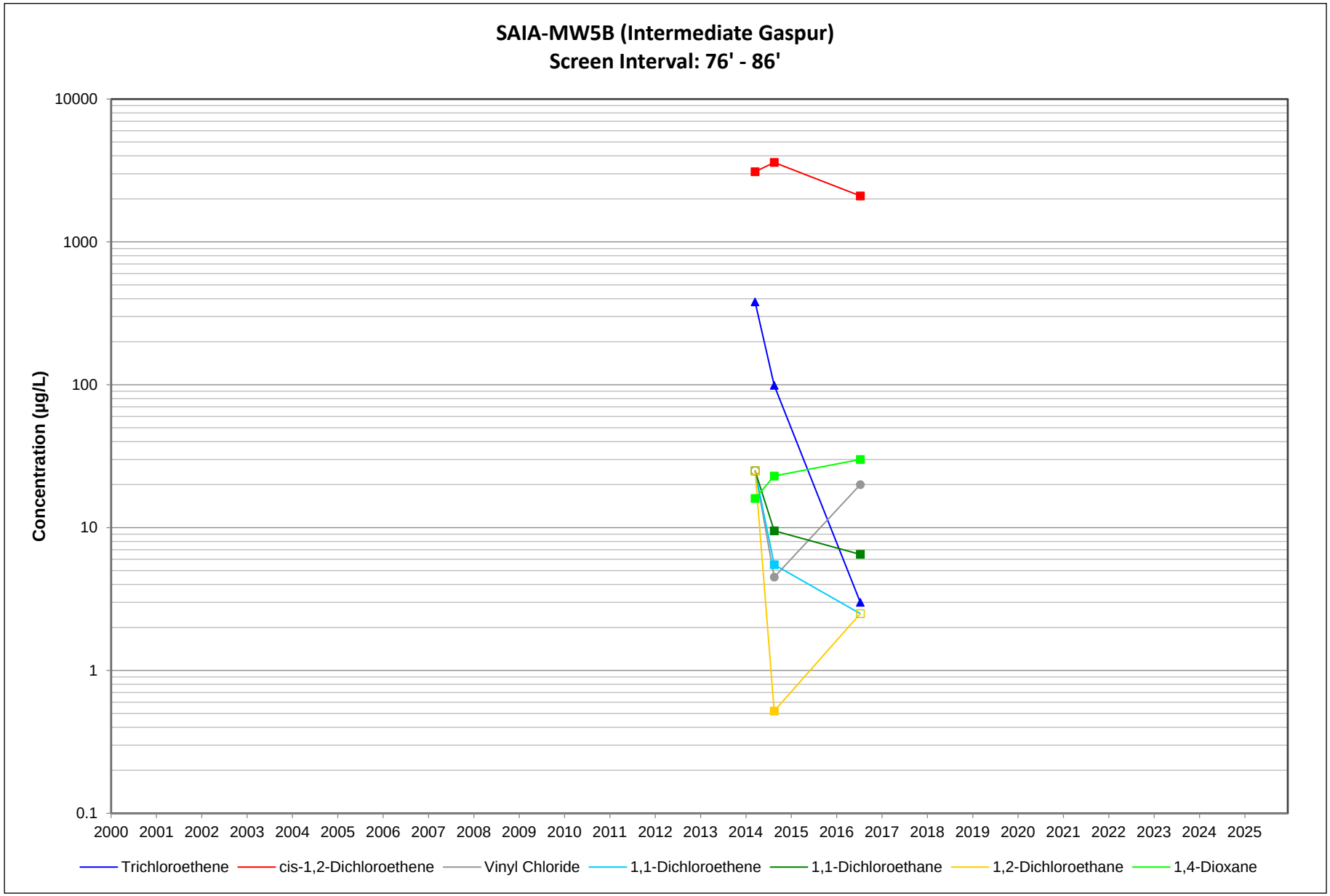
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Open symbols = compound not detected above the laboratory reporting limit

µg/L = micrograms per liter

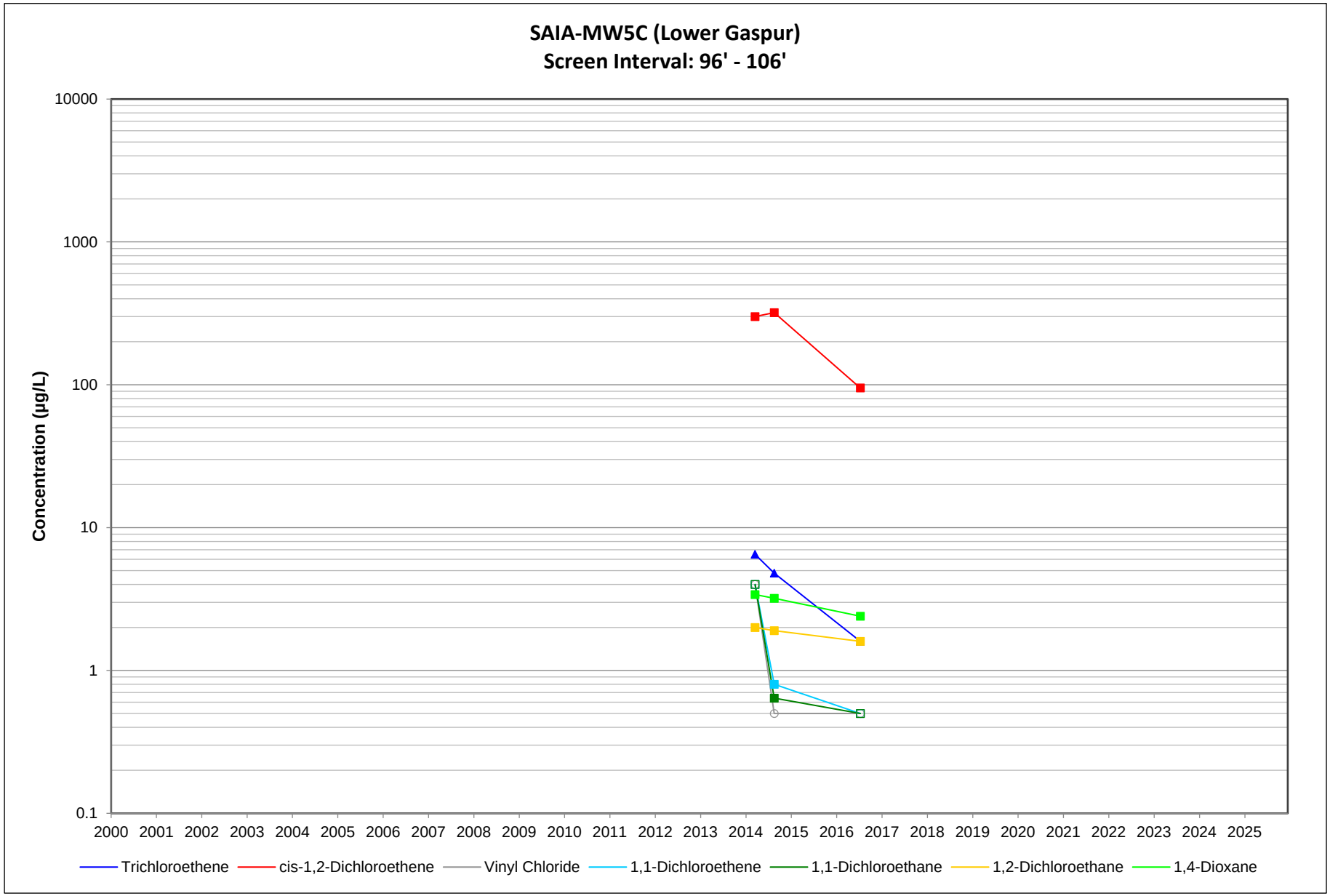
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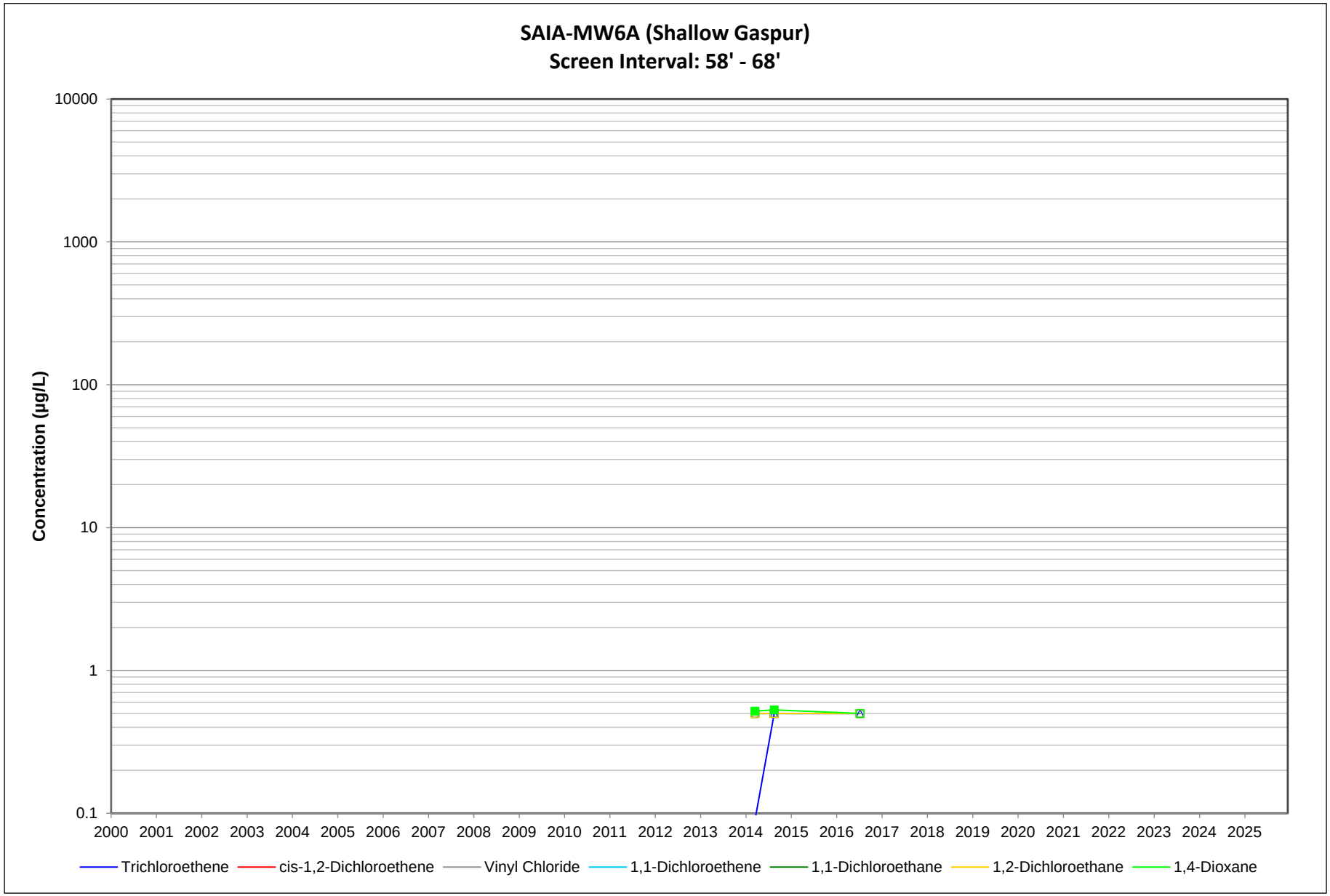
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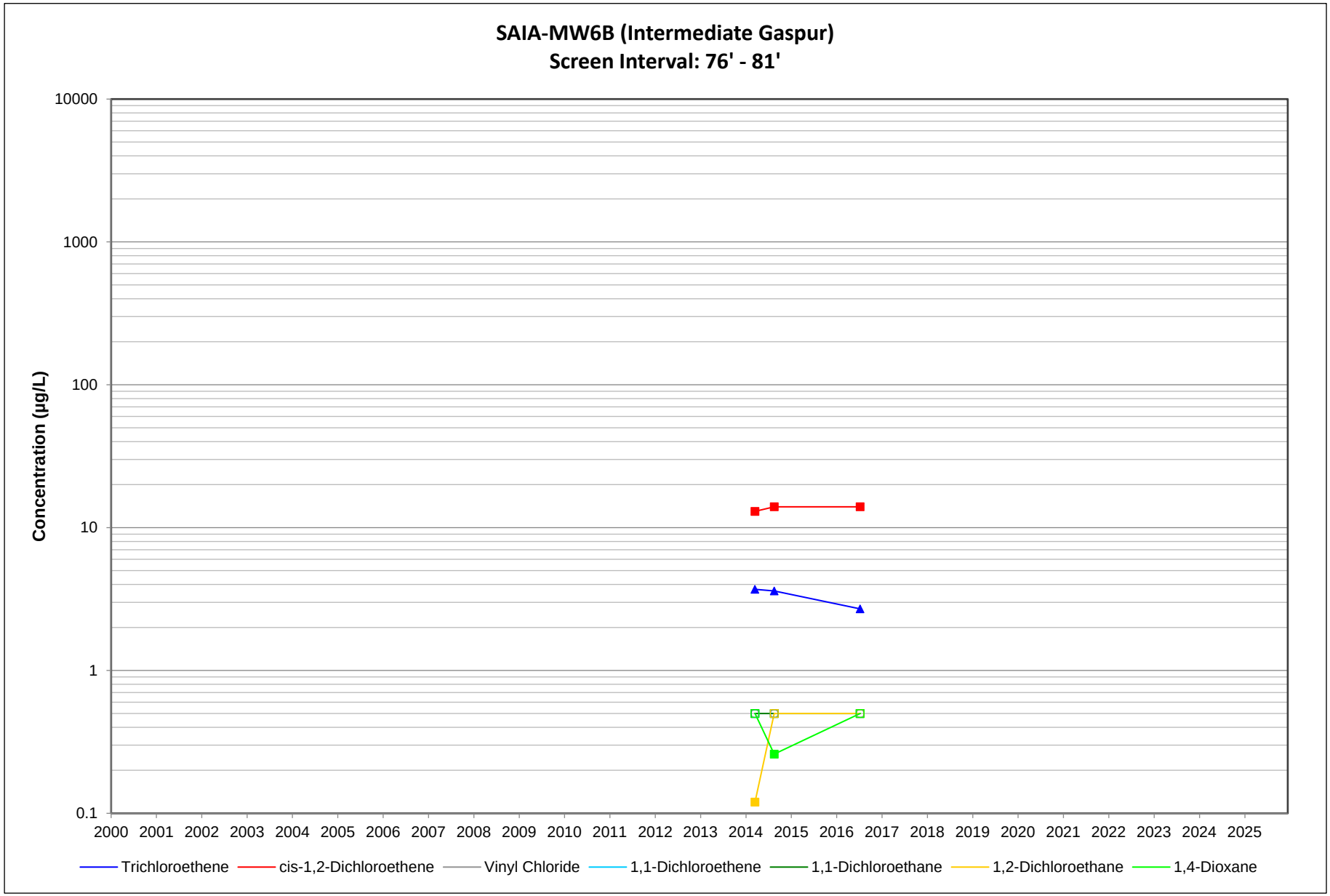
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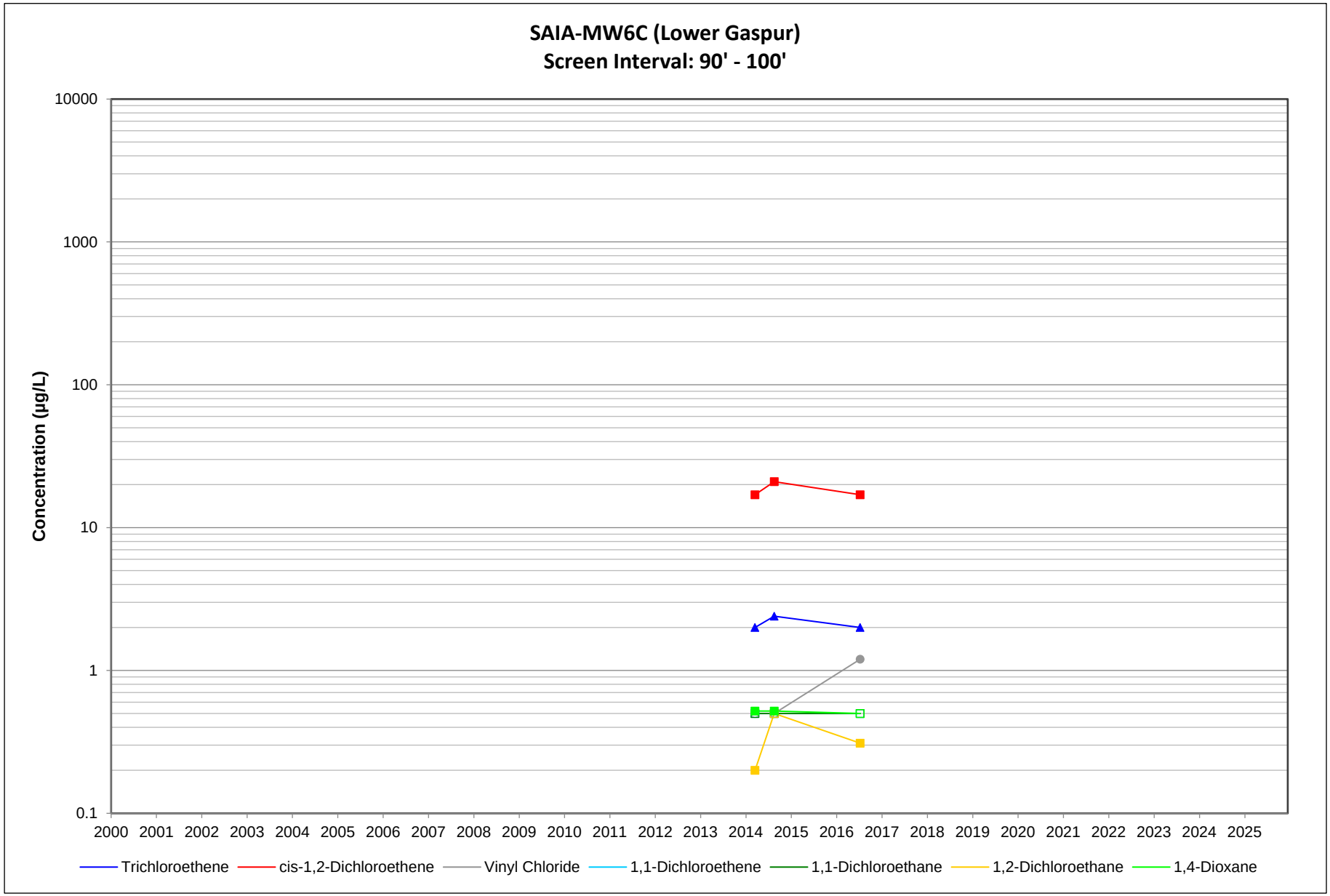
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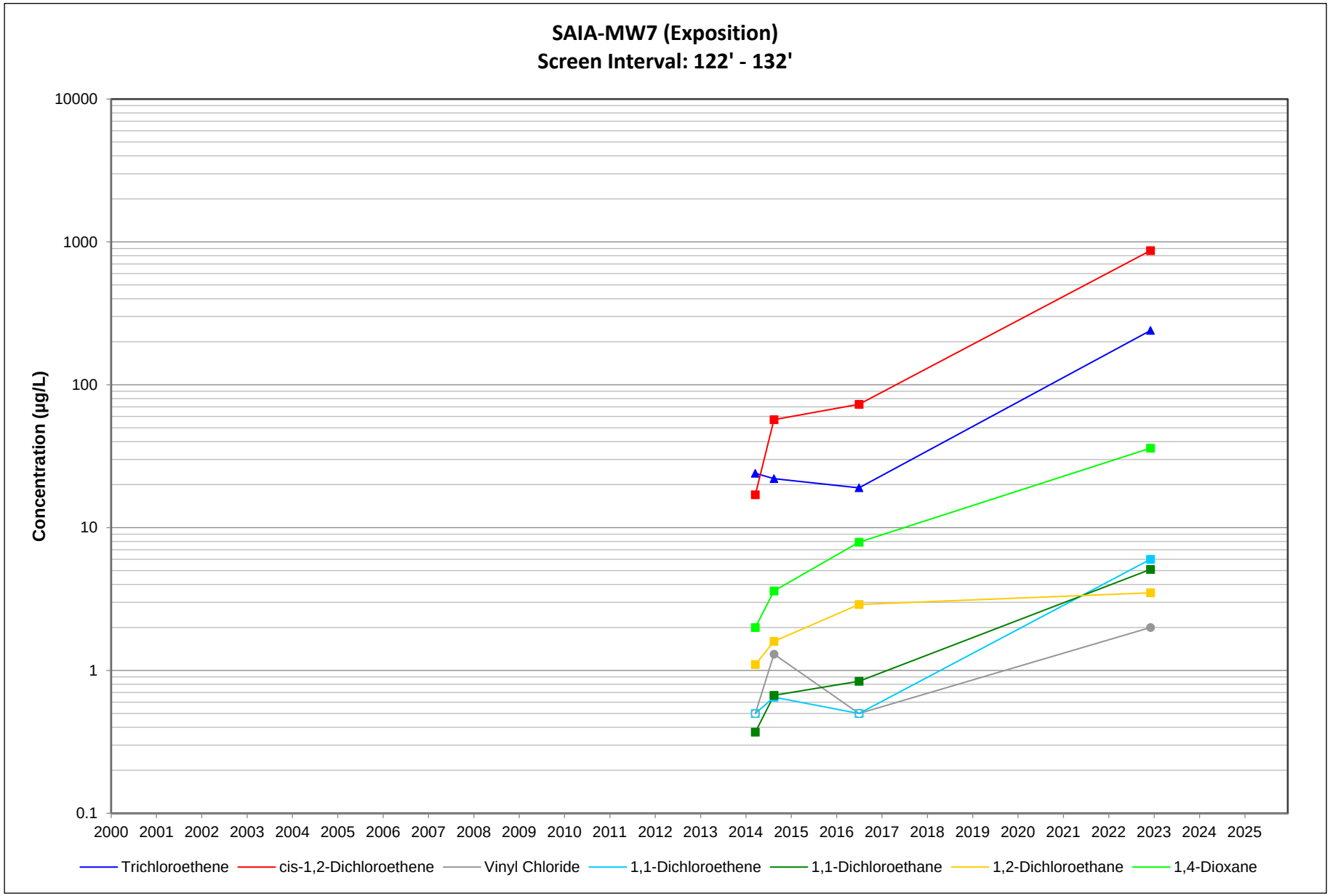
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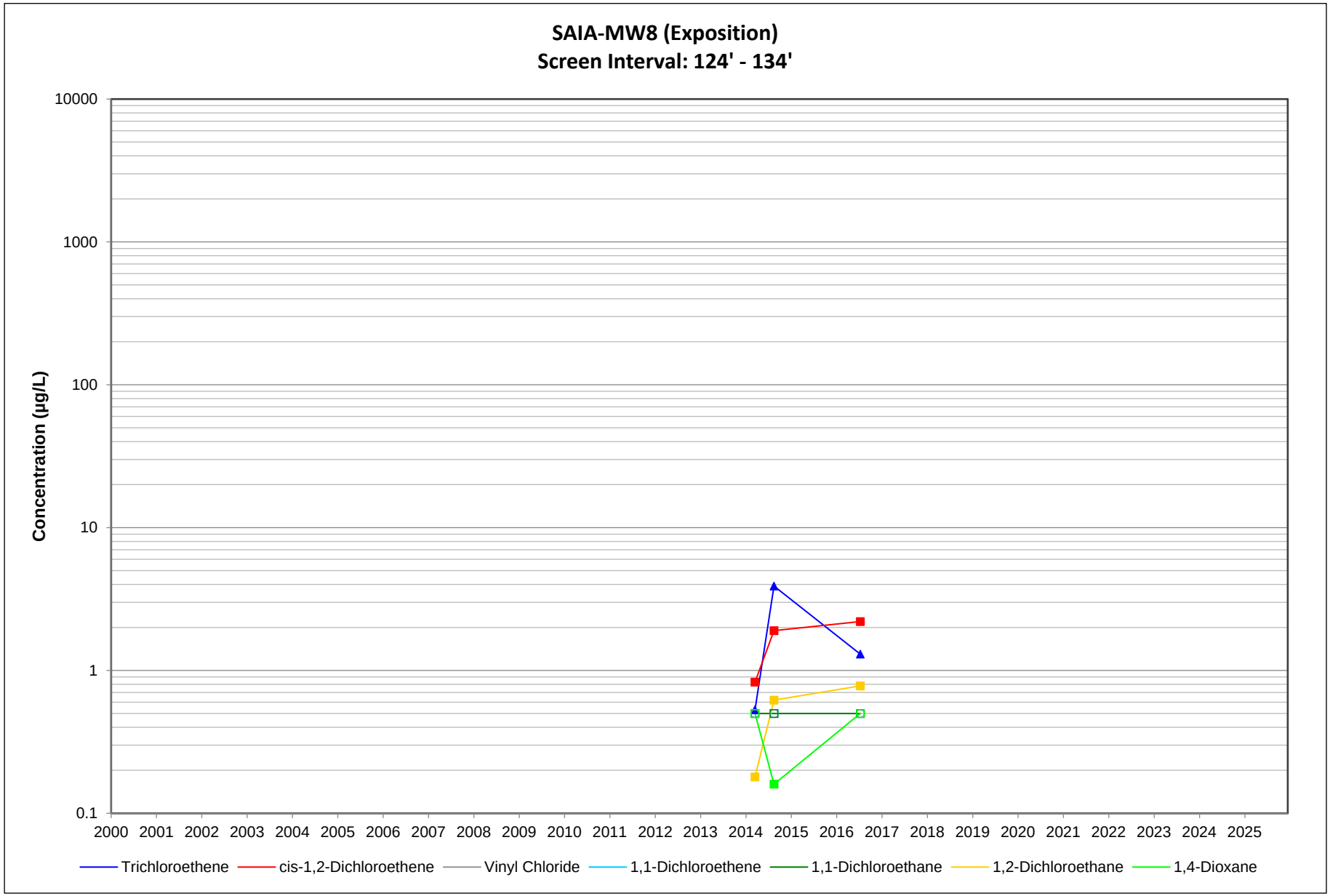
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FEBRUARY 2025

Focused Soil Management Plan

MR. C's Towing
Cooper Drum Company Superfund Site
9313 Rayo Avenue
South Gate, California

Prepared for:

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JHA Ref. No. E928F
February 2, 2026

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FIGURES

1 – Site Map

APPENDICES

A – Development Plans
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C – AQMD Rules and DTSC Advisory

1.0 INTRODUCTION

JHA Environmental, Inc. (JHA) was retained by Mr. C's Towing, to prepare this Focused Soil Management Plan (SMP) to be used during soil disturbance activities at the MR. C's Trucking at 9313 Rayo Avenue, South Gate, California 90280 (the "Property"); the Property is also known as the Cooper Drum Company Superfund Site (Site). This SMP is intended for use during grading activities associated with the installation of a new wall along the eastern boundary of the Property. A map showing the general location of the Property and surrounding area is provided as Figure 1.

1.1 Objectives

The objective of this Focused Soil Management Plan (SMP) is to establish procedures for managing soil disturbance activities associated with the proposed site improvements at the Property based on existing soil pre-profiling data, as well as to define protocols for addressing any previously unknown soil impacts potentially encountered during construction. The proposed improvements primarily consist of installation of a wall and associated footing along the eastern Property boundary and will require trenching and soil excavation approximately 4 feet wide and 3 feet deep, with an estimated total excavation of 285 tons of soil. Plans for the proposed development are provided in **Appendix A**.

The Property encompasses approximately 3.8 acres and is currently occupied by a tow yard, an approximately 10,000-square-foot warehouse located along the southern Property boundary, and asphalt-paved parking areas. The SMP will be implemented to provide guidance during soil disturbance activities in areas of known contamination and to outline contingency measures to be taken if visual or other indications of previously unidentified hazardous material or waste impacts and/or subsurface features (e.g., underground storage tanks [USTs], sumps, clarifiers, septic tanks) are encountered during site activities. This SMP addresses soil management, movement, temporary storage, and disposal associated with site improvement activities and is not intended to serve as a remediation plan for any other impacts that may be present on the Property.

1.2 Location

The Site is located approximately 10 miles south of the City of Los Angeles and about 1,600 feet west of the Los Angeles River (a concrete trapezoidal channel). The approximately 3.8-acre Property is situated in an urban area characterized by mixed residential, commercial, and industrial land uses. The former Tweedy Elementary School property, currently used for adult education, is located directly south of the Site, with additional parking areas and Esequiel Nursery to the north and industrial properties to the east.

2.0 SITE BACKGROUND

The following sections briefly summarize of historical use, previous environmental investigations, SMP applicability, and the regulatory status associated with the Property.

2.1 Site Setting and History

The Property is also known as the former Cooper Drum Company Superfund Site and is currently operated as Mr. C's Towing, a tow yard. The Site encompasses approximately 3.8

acres and is developed with asphalt-paved yard areas and an approximately 10,000-square-foot warehouse located along the southern Property boundary.

Historically, the Property was used for drum recycling and reconditioning operations beginning in the early 1940s, with Cooper Drum Company acquiring the Site in 1971 and expanding operations across the Property by 1976. Drum processing activities resulted in releases of hazardous substances to soil and groundwater, prompting investigations and corrective actions overseen by the Los Angeles Department of Health Services, the California Department of Toxic Substances Control (DTSC), and the U.S. Environmental Protection Agency (EPA). The Site was listed on the National Priorities List in 2001, and remedial actions for soil and groundwater were implemented beginning in 2010 under EPA oversight. Drum recycling operations ceased in 2003, and the Property was subsequently used for pallet storage until 2009. The Property has since been redeveloped and is currently used as a tow yard under Mr. C's Towing.

2.2 Climate

The Property is located within the South Coast Air Basin, with a climate generally characterized by sparse winter rainfall and dry hot summers tempered by cool ocean breezes. The mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds. The annual average temperature is 67°F. On average, August is the warmest month while January is the coolest month. Most of the annual rainfall occurs between November and April and annual average rainfall is approximately 12.1 inches in the area of the Property

2.3 Land Use/Topography

The Property encompasses approximately 3.8 acres and is currently developed as a tow yard with an approximately 10,000-square-foot warehouse located along the southern Property boundary, as well as asphalt-paved parking and storage areas. The Property is located within the Downey Plain of the central structural block of the Los Angeles Basin. Ground surface elevations across the Site range from approximately 102 to 107 feet above mean sea level, and site topography is generally flat with a slight regional slope toward the south to southeast. The Los Angeles River is located approximately 1,600 feet east of the Property.

2.4 Geology and Soils

The Site is underlain by Quaternary alluvial deposits of the Upper Pleistocene Lakewood Formation, which are characteristic of the central structural block of the Los Angeles Basin. These deposits consist primarily of coarse sands and gravels with interbedded lenses of sandy silt and clay, reflecting deposition from surrounding mountain ranges during basin subsidence. Overlying recent alluvium includes stream-deposited sediments that locally form perched water-bearing zones and aquicludes. The transition from recent alluvium to the Lakewood Formation represents the change from shallow, discontinuous deposits to more laterally extensive units associated with the regional aquifer system.

2.5 Hydrogeology

Hydrostratigraphic units beneath the Site include a localized semi-perched aquifer extending from the surface to approximately 35 feet below ground surface (bgs), the Bellflower Aquiclude

extending to approximately 70 feet bgs, the Gaspur Aquifer encountered at approximately 50 to 55 feet bgs and extending to approximately 110 to 120 feet bgs, and the underlying Exposition Aquifer beginning at approximately 110 feet bgs. Groundwater flow within the Gaspur Aquifer is generally toward the south to southeast, and a downward vertical hydraulic gradient exists between the Gaspur and Exposition aquifers.

2.6 Previous Investigations

A summary of overall Site conditions is provided below based on information from the most recent Five-Year Review report (dated September 20, 2021). Information from these sources has been reviewed and applied to guide a site investigation for the purpose of pre-profiling of areas proposed for excavation, as described in **Section 2.7**. Additional documentation, including remedial investigation data, monitoring results, and regulatory decision documents, is publicly available through the U.S. Environmental Protection Agency (EPA) Superfund website for the Cooper Drum Company Superfund Site.

- The Property is located within the boundaries of the Cooper Drum Company Superfund Site, which was listed on the National Priorities List in 2001 due to historical releases of hazardous substances associated with former drum recycling and reconditioning operations. Environmental investigations conducted under the oversight of the EPA and the California Department of Toxic Substances Control (DTSC) have identified impacts to soil, soil vapor, and groundwater beneath the Property. Identified contaminants of concern include chlorinated volatile organic compounds (VOCs) such as tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, and 1,4-dioxane, as well as non-volatile organic compounds including polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, metals (including lead), and other site-related constituents.

- EPA-selected remedial actions for the Site include soil vapor extraction, dual-phase extraction, groundwater extraction and treatment, and institutional controls. These remedies are ongoing, and periodic Five-Year Reviews are conducted to evaluate protectiveness of human health and the environment. Information regarding Site history, identified contaminants of concern, remedial systems, and current Site status is available through EPA's Superfund records and online repositories.

This information provides the basis for identifying potential environmental hazards that may be encountered during site improvement activities subject to this Focused SMP.

2.7 Excavation Pre-profiling Site Investigation

Pre-profiling activities were conducted to characterize soil conditions along the proposed trench alignment for the wall and associated footing installation. A total of ten (10) direct-push soil borings (SB-1 through SB-10) were advanced along the proposed trenching footprint, which is estimated to be approximately 4 feet wide and 3 feet deep. Each boring was advanced to a total depth of approximately 3 feet below ground surface (bgs). Soil samples were collected at approximately 2 and 3 feet bgs and submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260D, total petroleum hydrocarbons (TPH) by EPA Method

8015C, Title 22 metals by EPA Methods 6010D/7471B, and polychlorinated biphenyls (PCBs) by EPA Method 8082A. Boring locations are shown on Figure 1.

Analytical results indicated that VOCs and/or TPH were detected in soil; however, concentrations did not exceed applicable screening levels. The presence of VOCs indicates that air monitoring in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166 will be implemented during excavation activities.

PCBs were detected at concentrations exceeding applicable residential screening levels, including Aroclor-1254 at 750 µg/kg in boring SB5-2 and 500 µg/kg in boring SB7-2, and Aroclor-1260 at 740 µg/kg in boring SB5-2. In addition, soil with total PCB concentrations exceeding 1 part per million (ppm) is classified as PCB-contaminated soil under the Toxic Substances Control Act (TSCA) and regulated as remediation waste pursuant to 40 CFR 761.61; one sample (SB5-2) exceeded this threshold. Based on local disposal facility acceptance criteria and site-specific conditions, all soil samples with detected PCBs were determined to require disposal as hazardous waste, including soil associated with borings SB5 through SB8. Detected PCB concentrations, applicable screening criteria, and the areas of proposed trenching requiring segregation and disposal as either hazardous or non-hazardous waste are presented in **Figure 1**.

Metals were detected in soil samples; however, only lead was reported at concentrations warranting further evaluation of potential leaching characteristics prior to disposal. Accordingly, additional leaching analyses for lead were performed using the Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) methods on selected samples collected from boring SB-8 at 3 feet bgs and boring SB-5 at 2 feet bgs. Analytical results for both samples were below applicable regulatory thresholds for classification as hazardous waste. The associated laboratory analytical reports are included in **Appendix B**.

3.0 PRE-CONSTRUCTION ACTIVITIES

A summary of pre-construction activities is provided in the following sections, including discussions of the proposed development, protection of existing infrastructure, permitting requirements, health and safety procedures, monitoring activities, and roles and responsibilities.

3.1 Development and/or Site Improvement Plans

The intended future use of the Property is continued commercial/industrial operation as a tow yard. Proposed site improvements along the eastern Property boundary include construction of a wall, gate, and associated landscaping. Grading and excavation activities addressed by this SMP are directly associated with construction of the wall, as depicted in **Appendix A**.

3.2 Regulatory Framework

The following regulatory issues, related to impacted or potentially impacted soil, apply to redevelopment activities that may be conducted at the Property:

- At least three working days prior to conducting any subsurface work, Dig Alert (Underground Service Alert) must be contacted.
- Although only minimal concentrations of VOCs and TPH were identified in the soil sample results, JHA will implement SCAQMD Rule 1166 requirements during excavation activities using a various location permit, and notification will be provided to the South SCAQMD in accordance with Rule 1166 prior to the start of field work. Field monitoring

will be conducted, and should VOC measurements reach or exceed the threshold of 50 parts per million (ppm), or 1000 ppm, additional grading or excavation mitigation measures will be implemented as required by the Rule to limit VOC emissions. Periodic monitoring with a photoionization detector (PID) and associated recordkeeping will be maintained for compliance and submittal to SCAQMD.

- Best available dust control measures and monitoring for fugitive dust will be conducted in accordance with SCAQMD Rule 403. If impacted soil is encountered, monitoring for nuisance odors will be conducted in accordance with SCAQMD Rule 402. The General or Grading Contractor will be directed to take additional measures, as necessary, such as application of water or a change in operations or equipment in order to properly manage dust or nuisance odors from leaving the Property Additional fugitive dust control measures proposed for implementation at the Property during the excavation activities are included in the grading plans in **Appendix A**.
- Implementation of Rule 1466 (control of particulate emissions from soils with toxic air contaminants) is not anticipated to be necessary based on previous investigation; one detection of lead was reported exceeding the DTSC residential screening level of 80 ug/kg (SB5-2 at 122 ug/kg) along the proposed excavation area, but the volume of soil at the location is less 50 cubic yard threshold based on data from adjacent borings. However, if suspected contamination (based on visual staining/discoloration) is encountered during the earth moving activities associated with site improvements, soil samples will be collected for laboratory analysis. If laboratory results confirm that "applicable toxic air contaminants" are present exceeding applicable levels, notification and permitting with the AQMD will be required and necessary mitigation controls and monitoring pursuant to Rule 1466 will be implemented.
- For sites over one acre, a Storm Water Pollution Prevention Plan (SWPPP) for construction may need to be in place prior to the start of site improvement activities (prepared by others).
- USTs and/or clarifiers are not anticipated to be encountered during excavation activities, however, if necessary, removal of any unknown encountered UST or clarifier will be conducted with oversight by the Los Angeles County Fire Department (LACFD). Rule 1166 monitoring will be required in the event any USTs are encountered and tank removal will require a licensed contractor with a Hazardous Substances Removal certification.
- Any employee working at a site with hazardous waste, as defined in 29 CFR 1910.120 (or applicable state OSHA standard) shall be trained in accordance with 29 CFR 1910.120(e) (24-hour or 40-hour HAZWOPER, as appropriate).

Potentially applicable SCAQMD Rules are provided for reference in **Appendix C**. Other agency involvement will include items such as filing of a grading plan with the City of South Gate (**Appendix A**).

3.4 Health and Safety Plan

A Health and Safety Plan (HASP) should be prepared to be in effect for any activities conducted under the SMP including potential excavation, soil sampling, and other activities at the Property overseen by JHA. Contractors working on the Property are expected to be operating under their own health and safety plans. As noted above, any employee working at a site with hazardous waste, as defined in 29 CFR 1910.120 (or applicable state OSHA standard) shall be trained in accordance with 29 CFR 1910.120(e) (24-hour or 40-hour HAZWOPER, as appropriate).

3.5 Environmental Monitoring

In accordance with SCAQMD Rules, air monitoring under rule 1166 will be implemented by JHA and control measures for fugitive dust will be implemented by the General Contractor according to the grading plan (**Appendix A**). If VOC contaminated soil is identified exceeding 50 ppm (or 1000 ppm) using a PID, that needs to be managed during the grading process, JHA's oversight activities will include recording monitoring data on field sheets, which will be kept as part of project documentation.

4.0 GENERAL CONSTRUCTION ACTIVITIES

4.1 Soil Handling

Approximately 285 tons of soil are proposed to be excavated to construct trenching for the proposed wall along the eastern Property boundary. The trench is anticipated to be approximately 4 feet wide and 3 feet deep. Based on prior investigations and pre-profiling activities, approximately 170 tons of the excavated soil have been characterized as non-hazardous, while approximately 115 tons have been characterized as hazardous due to PCB contamination. Soil stockpiles are proposed to be staged west of the trenching area. Stockpile staging areas will be delineated prior to the start of excavation. All excavations will conform to applicable regulations including Cal/OSHA Construction Safety Orders. The trenching alignment, estimated extents of hazardous and non-hazardous soil, and the sampling data for PCBs used to support these determinations are shown on **Figure 1**.

If additional areas of impacted soil are encountered, the area will be delineated as necessary with cones, caution tape, stakes, chalk, or flagging and the area will not be disturbed further until an environmental professional is onsite for observation and determination of whether testing and/or excavation work is required.

The specific equipment, means, and methods to be utilized for soil removal, handling, and disposition will be selected based on the nature of the work to be conducted and its location on the Property. Following is a summary of potential soil removal and handling tasks, however it is possible that certain activities will not involve all of the listed tasks:

- Mobilization of equipment, supplies, and manpower. Anticipated equipment to be used may include excavators, backhoes, dump trucks, loaders, and a water truck. Support facilities such as toilets, fencing, and signage will also be located on-site.
- Areas from which contaminated or potentially contaminated soil is being excavated, disturbed, or handled will be secured by temporary fencing and/or caution tape, as appropriate. Exclusion and support zones, if any, staging areas, and decontamination pads will also be delineated.
- Provide traffic control signage and flagging as necessary.
- Provide appropriate dust and vapor control and monitoring in accordance with applicable SCAQMD rules.
- JHA will be present full-time during soil removal and handling activities in areas in which contaminated soil has been encountered or has the potential to be encountered. JHA will be responsible for observations of soil conditions, air monitoring, maintaining communications, ensuring compliance with this SMP, and any oversight of sampling.

Although not anticipated, it should be noted that if testing of suspect materials confirm that "applicable toxic air contaminants" are present, notification and permitting with the AQMD will

be required and implementation of necessary mitigation controls and monitoring pursuant to Rule 1466 will modify the minimum soil handling procedures describe above.

If excavation is conducted during the rainy season (November through April), provisions will need to be made to prevent off-site migration of sediment in runoff. Best management practices should be implemented for runoff control in accordance with the construction permit, regulatory requirements, and the SWPPP (if required). Measures may include placement of sandbags, straw rolls, and/or hay bales to control runoff and to act as filters. If precipitation accumulates within any excavation, it will be pumped out and disposed in accordance with federal, state, and local regulations.

4.2 Fugitive Dust and Vapor Control

Appropriate procedures will be implemented (and described in the Grading Plan; **Appendix A**) to control the generation of airborne dust by soil removal activities, including, but not limited to, some or all of the following:

- As previously mentioned, implementation of general dust control measures described in the SCAQMD Rule Book, Rule 403, Fugitive Dust (dated May 7, 1976, amended June 3, 2005) should be followed. Generation of dust and emission of VOCs (if any) during Property improvement activities will be minimized, as necessary, by the use of water as a dust suppressant. The water will be available from on-site water service, via a water truck, or through a metered discharge from a fire hydrant located on or proximate to the Property. When necessary, the grading contractor will control dust generation by spraying water prior to daily work activities, during excavation/loading activities (as necessary to maintain concentrations below action levels), and at truck staging locations. During the Property construction activities, watering equipment will be continuously available to provide proper control measures. It is the responsibility of the Contractor to ensure that the presence of dust is minimized during construction activities, and that all applicable local and state dust-control and worker protection requirements are met. Should construction activities result in observable dust at the boundary of the Property, enhanced control measures will be performed by the Contractor.

    - Fugitive dust from any active operation, storage pile, or disturbed surface must be controlled so that it is not visible beyond the property line, does not exceed 20% opacity, and does not cause PM_{10} concentrations to exceed 50 $\mu g/m^3$ above upwind levels. All active operations are required to implement applicable Best Available Control Measures (BACMs) to minimize dust emissions. Track-out from site activities may not extend 25 feet or more and must be removed at the end of each workday or shift, and sites disturbing five acres or more or importing/exporting 100 cubic yards or more of material per day must implement vehicle track-out controls, such as gravel pads, at all exits to paved public roads.

- Activities that have the potential to generate fugitive dust will cease in the event wind conditions change creating an uncontrollable condition. If required, JHA will monitor on-site meteorological instrumentation and/or coordinate with off-site meteorological professionals to identify conditions that require cessation of work.

4.3 Soil Excavation and Stockpiling

Impacted soil that is excavated and not immediately removed from the Property will be stockpiled on and covered with plastic sheeting to control dust and minimize exposure to precipitation. The edges of the plastic sheeting will have an overlap of at least 24 inches. Plastic sheeting will be secured at the base of the stockpile and along seams of overlapping plastic sheeting, if any, with sandbags or by equivalent means. If a stockpile remains on site during the rainy season, a perimeter sediment barrier, constructed of material such as straw bales or fiber roll, will also be installed. The stockpiles will remain covered until the soil is ready for final disposition. The locations of proposed stockpiles are depicted in **Figure 1.**

Biweekly inspection of stockpiles will be conducted by JHA, as appropriate, to verify cover integrity. Any gaps, tears, or other deficiencies will be documented by JHA and corrected immediately. Records will be kept of stockpile inspections and any repairs made. During stockpile removal, only the working face of the stockpile will be uncovered.

Approximately 285 tons of soil are proposed to be excavated to construct trenching for the proposed wall along the eastern property boundary. The trench is anticipated to be approximately 4 feet wide and 3 feet deep. Based on previous investigations, the excavated soil will be segregated and stockpiled in accordance with existing pre-profile data, consisting of approximately 170 tons of soil characterized as non-hazardous and approximately 115 tons of soil characterized as hazardous due to PCB contamination. These materials will be managed and disposed of off site in accordance with their respective waste classifications.

Only if additional soil is encountered during excavation that was not previously characterized and is suspected to be impacted will separate waste profiling be conducted. In such cases, the newly identified unknown impacted soil will be stockpiled separately and profiled for waste characteristics prior to off-site disposal or recycling. Waste profiling will consist of collecting soil samples for laboratory analysis at the frequency required by the receiving disposal or recycling facility. At a minimum, four samples will be collected from a stockpile of up to 1,000 cubic yards, with one additional sample collected and analyzed for each additional approximately 500 cubic yards of stockpiled material.

Soil samples will be analyzed for parameters required by the disposal/recycling facility. If no specific analytical program is required by the disposal/recycling facility, analysis will include PCBs, VOCs, metals, and TPH by methods detailed in **Section 5.5**.

5.0 SOIL MONITORING DURING CONSTRUCTIONN

This section describes the procedures for monitoring, sampling, testing, and managing soil encountered during site redevelopment to identify and address potential chemicals of potential concern (COPCs). Activities include visual observation, field screening, laboratory analysis, and data evaluation, as necessary, to support appropriate soil handling, reuse, and off-site disposal in accordance with applicable regulatory requirements.

5.1 Soil Monitoring

Freshly exposed soil will be evaluated by visual observation by JHA and using a PID according to AQMD rule 1166. Depending upon visual, olfactory, and direct reading instrument indicators, soil samples may be collected for chemical testing that will be performed by a state-certified laboratory, as discussed below.

5.2 Visual Observation

During pre-demolition, demolition, grading, and construction activities, visual observation of the exposed soil beneath building foundations, floors, pavement, and subsurface features will be conducted. A field form will be completed daily to document the areas of soil suspected of being impacted, if any. Soil color, observations of debris (if any), and subsurface features encountered will be recorded on the field sheets. Any observed discoloration, odor, or other evidence of potential hazardous materials will be documented and serve as the basis for further evaluation.

5.3 Sample Collection and Testing

Based on field indications, soil samples may be collected to evaluate the presence of suspected chemicals or compounds in previously unknown areas of contamination. Selected soil samples will be analyzed by an appropriately certified, off-site laboratory.

Soil samples for laboratory analysis will be collected using hand tools (for instance hand auger or hand trowel) and placed in glass jars, brass tubes, or other appropriate containers. Samples to be analyzed for VOCs (if deemed necessary) will be field preserved using EPA Method 5035. After collection, samples will be sealed, uniquely labeled, and placed in a chilled cooler pending delivery to the analytical laboratory. All soil samples will be tracked from point of collection through the laboratory using chain-of-custody documentation.

Re-useable soil sampling equipment (hand auger, trowel, shovel, etc.) will be decontaminated using the following steps to reduce the potential for cross-contamination.

- Wash and scrub in non-phosphate detergent and potable water.
- Rinse in potable water.
- Rinse in deionized water and air dry.

Investigation derived residuals, including decontamination water, will be managed in accordance with regulatory requirements.

5.4 Evaluation of Analytical Data

Laboratory analytical results will be compared to applicable regulatory screening criteria, including the California Department of Toxic Substances Control (DTSC) HERO Note 3 and U.S. Environmental Protection Agency (EPA) Regional Screening Levels for PCBs, VOCs, and metals. PCB analytical results will also be evaluated against Toxic Substances Control Act (TSCA) guidance for PCB-contaminated soil. Analytical data will be used to characterize excavated soil to determine its suitability for on-site reuse or the appropriate off-site disposal location. Records documenting the destination of all excavated and exported soil will be maintained through soil export manifests.

5.5 Responding to Unknown Conditions

If previously unknown impacted soil is suspected (based on visual staining, odors, PID readings, or other observations), the area will be delineated, and construction activity will cease in this area. The contractor will notify JHA and/or Owner representative (identified in **Section 3.6**) of the condition within 24 hours. JHA will visit the Property and sampling of the unknown material will be conducted, as appropriate. Analyses are expected to be conducted for TPH, PCBs, metals, and/or VOCs. Analytical results will be compared to applicable regulatory screening levels. Based on this comparison, a determination will be made regarding soil disposition (reuse on site, off-site transport and disposal/recycling, etc.). The number of, and the methods used to collect the soil samples and the analyses to be performed will be selected by the supervising professional, and may include the following test methods:

- PCBs by EPA Method 8082A
- TPH with carbon chain range quantification (TPH-cc) using EPA Method 8015C
- Metals using EPA Methods 6010D/7471B.
- VOCs using EPA Method 8260D/5035.

Similarly, if any UST or other subsurface features (sumps, clarifiers, vaults, septic tanks, etc.) are encountered, a similar approach will be taken, and the contractor will stop activities and delineate the area and provide notification within 24 hours to JHA and/or Owner representatives. JHA will visit the Property to observe conditions in the area(s) of concern and conduct sampling, as necessary. The procedures that will be followed in the event that an unanticipated subsurface structure is discovered are summarized below:

- A licensed Contractor or JHA will remove and containerize any observed residual liquid, sludge, or sediment in the subsurface structure, and will characterize the residual material(s) as required by the waste-receiving facility(ies);
- Appropriate permitting, as necessary, will be obtained for the removal of any feature(s) that may be identified requiring specific permits. Any permitted removals will be conducted with appropriate regulatory oversight, documentation, and reporting.
- The Contractor and/or JHA will remove the subsurface structure in compliance with applicable laws and regulations, and under permit from and oversight by the applicable regulatory agency, if required;
- Soil removal and sampling actions will be performed in accordance with the procedures outlined in this SMP; and
- The area will be cleared after any required regulatory authorization has been obtained from the permitting agency so that work may proceed.
- The Contractor and/or JHA will ensure that work is conducted under an appropriate health and safety plan and that the requirements detailed in **Section 3.4** are met where required by site conditions.

Upon completion of any required action, on-site Contractors will be notified that they can resume work in the area.

5.6 Stormwater Management

Stormwater management regarding sediment runoff will be consistent with local, state, and federal rules and regulations, including those set forth by Los Angeles County, the Los Angeles County Regional Water Quality Control Board and by the Department of Toxic Substances Control, as applicable. As outlined in Section 3.3, a SWPPP is required for sites over one acre. Applicable stormwater pollution control measures will be implemented to prevent runoff of sediment in stormwater from flowing to nearby storm drains and from entering local creeks, rivers, and other water bodies. The Contractor is required to obtain all necessary stormwater permits, and to implement best management practices during construction activities conducted at the Property.

5.7 Import Fill Soil Requirements

As appropriate, off-site soils brought to the Property for use as backfill (import fill), if necessary, will be tested in general conformance with the DTSC Information Advisory Clean Imported Fill Material document (2001), **Appendix C**.

6.0 REFERENCES

California Department of Toxic Substances Control (DTSC). Information Advisory: Clean Imported Fill Material (2001).

California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), June 2020, Revised May 2025. *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs)*.

United States Environmental Protection Agency (USEPA). First Five-Year Review Report for the Cooper Drum Company Superfund Site, South Gate, Los Angeles, California. Prepared by the U.S. Army Corps of Engineers, Seattle District, for USEPA Region 9 (September 2021).

United States Environmental Protection Agency (USEPA). *Cooper Drum Co. Superfund Site Profile*. Cumulis Superfund Site Information (EPA ID: CAD055753370), South Gate, California. https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.docdata&id=0903253

United States Environmental Protection Agency (USEPA). Toxic Substances Control Act (TSCA) Regulations for Polychlorinated Biphenyls (PCBs), 40 CFR Part 761.

United States Environmental Protection Agency, Region IX, June 2025. *Regional Screening* Levels.

FIGURES

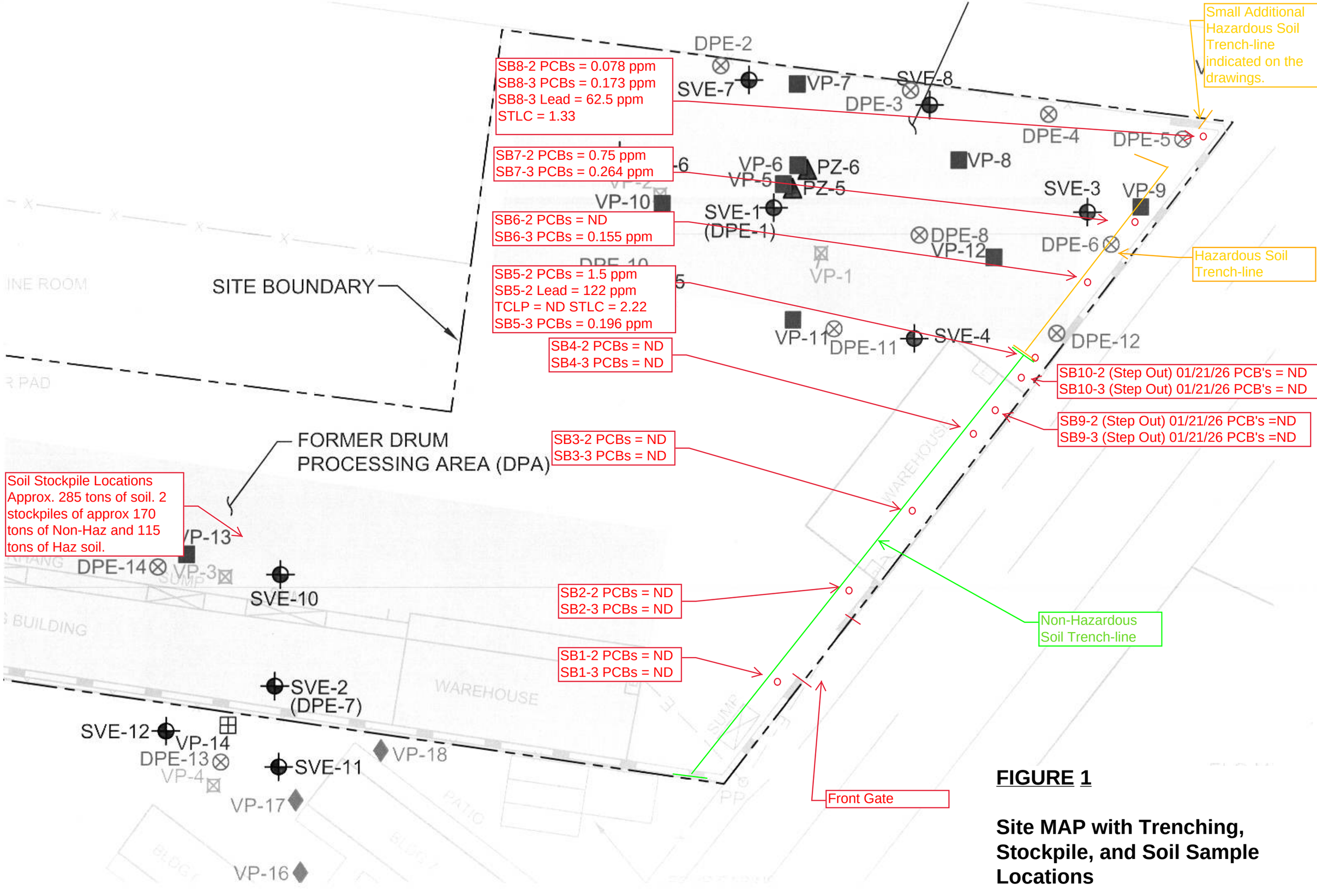


FIGURE 1

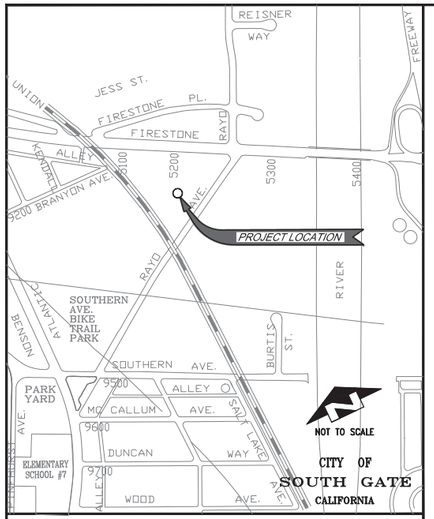
Site MAP with Trenching, Stockpile, and Soil Sample Locations

APPENDIX A

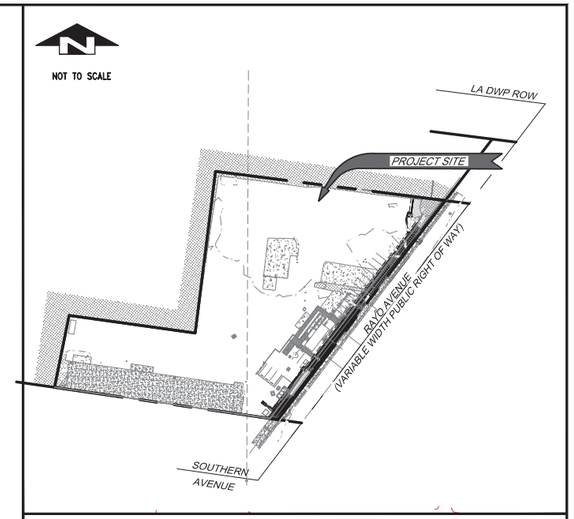
Development Plans

THE CITY OF SOUTH GATE

MR C'S TOWING
GRADING PLAN



VICINITY MAP



LOCATION MAP

GRADING GENERAL NOTES

1. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE UNIFORM BUILDING CODE, APPENDIX CHAPTER 38, REGULATING THE EXCAVATION & GRADING OF LAND AND ANY AMENDMENTS THERETO, THE REQUIREMENTS THE CITY OF SOUTH GATE & THE RECOMMENDATIONS OF THE SOILS REPORT.
2. ALL GRADING SHALL CONFORM TO THE RECOMMENDATIONS OF THE APPROVED REPORT OF SOILS ENGINEER AND ENGINEERING GEOLOGIST PREPARED BY NORCAL ENGINEERING DATED DECEMBER 9 OF 2025.
3. THE SOILS ENGINEER AND ENGINEERING GEOLOGIST SHALL BE RESPONSIBLE FOR VERIFYING THE QUALITY OF THE WORK PERFORMED BY THE GRADING CONTRACTOR, AND SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THEIR PURVIEW, AND SUBMIT CERTIFICATION TO THE CITY.
4. THE DESIGN CIVIL ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITH HIS PURVIEW.
5. IF THE CIVIL ENGINEER OR SOILS ENGINEER IS CHANGED DURING THE COURSE OF THE WORK, ALL WORK SHALL BE STOPPED UNTIL A REPLACEMENT HAS AGREED TO ACCEPT THE RESPONSIBILITY FOR CERTIFICATIONS UPON COMPLETION OF WORK.
6. ANY REVISIONS MADE IN THE APPROVED GRADING AS SHOWN ON THE GRADING PLANS MUST BE SPECIFICALLY APPROVED BY THE CIVIL ENGINEER AND CITY ENGINEER.
7. ADJUSTMENT OF ELEVATIONS MADE TO OBTAIN AN EARTHWORK BALANCE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. NO ADJUSTMENT SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF DESIGN ENGINEER. NO FILLS SHALL BE CONSTRUCTED HIGHER THAN 6 INCHES BELOW FINISH GRADE UNTIL ALL FILLS HAVE BEEN BROUGHT TO WITHIN 6 INCHES OF FINISH GRADE, NO PAD SHALL BE APPROVED UNTIL EARTHWORK BALANCE IS MADE FOR THE ENTIRE SITE AND APPROVED. THE CONTRACTOR SHALL GRADE STREETS TO SUB-GRADE BEFORE ADJUSTMENT OF ANY ELEVATIONS.
8. NO WORK SHALL BE ACCOMPLISHED WITHOUT A CITY GRADING PERMIT.
9. NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE PUBLIC WORKS ENGINEERING DIVISION 48 HOURS IN ADVANCE. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, CITY ENGINEER, OR THEIR REPRESENTATIVE. A 48-HOUR NOTICE REQUIRED PRIOR TO GRADING.
10. THE PERMITEE OF HIS AGENT SHALL NOTIFY THE BUILDING AND SAFETY OFFICIAL WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:
    A. INITIAL INSPECTION – WHEN THE PERMITEE IS READY TO BEING WORK BUT NOT LESS THAN TWO DAYS BEFORE ANY GRADING OR GRUBBING IS STARTED.
    B. TOE INSPECTION – AFTER THE NATURAL GROUND OR BEDROCK IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE ANY GRADING OR GRUBBING IS STARTED.
    C. EXCAVATION INSPECTION – AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL DEPTH OF THE EXCAVATION EXCEEDS TEN FEET.
    D. FILL INSPECTION – AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE FILL EXCEEDS TEN FEET.
    E. DRAINAGE DEVICE INSPECTION – AFTER THE FORMING OF TERRACE DRAINS, DOWN DRAINS OR AFTER PLACEMENT OF PIPE IN SUB-DRAINS, BUT BEFORE ANY CONCRETE IS PLACED OR FILTER MATERIAL.
    F. ROUGH GRADING – WHEN ALL ROUGH GRADING HAS BEEN COMPLETED. THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF ROUGH GRADING WITHOUT THE NECESSITY OF THE PUBLIC WORKS OFFICIAL HAVING PREVIOUSLY REVIEWED AND APPROVED REPORTS.
    G. FINAL – WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES, AND OTHER PROTECTIVE DEVICES HAVE BEEN COMPLETED AND THE AS-GRADED PLAN, PROFESSIONAL CERTIFICATIONS AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.
11. CUT SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1.
12. FILL SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL AND SHALL HAVE NO LESS THAN 90% COMPACTION OUT TO THE FINISHED SURFACE.
13. FILLS SHALL BE COMPACTED THROUGHOUT TO 90% DENSITY AS DETERMINED BY THE U.B.C. STANDARD NO 70-1 AND 70-2, AND CERTIFIED BY THE SOILS ENGINEER.
14. ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY THE SITE SOILS ENGINEER PER THE GRADING AND EXCAVATION CODE.
15. NO ROCK OR SIMILAR MATERIAL GREATER THAN 6 INCHES IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOILS ENGINEER IN ADVANCE AND APPROVED BY CITY ENGINEER AND BUILDING AND SAFETY OFFICIAL.
16. EXISTING UNDERGROUND STRUCTURES: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOW ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS.
17. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
18. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES, AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT, IN ANY CASE, THE CONTRACTOR AND/OR DEVELOPER SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTION OF EXISTING DRAINAGE PATTERNS.
19. SANITARY FACILITIES SHALL BE MAINTAINED AT THE SITE THROUGHOUT THE FIELD ACTIVITIES.
20. DUST SHALL BE CONTROLLED DURING GRADING BY WATERING OR OTHER APPROVED MEASURES.
21. SAFETY RESPONSIBILITY: CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF SOUTH GATE, THE OWNER, OR THE ENGINEER.
22. ANY UNDERGROUND STRUCTURES SUCH AS CESSPOOLS, SEPTIC TANKS, WELLS, OR PIPES NOT LOCATED PRIOR TO GRADING ARE TO BE REMOVED OR TREATED IN A MANNER PRESCRIBED BY THE SOILS ENGINEER.
23. CARE SHALL BE TAKEN TO PROTECT ALL CONSTRUCTION MONUMENTS AND STAKES. RESURVEY RESULTING FROM CARELESS OPERATION SHALL BE BACK-CHARGE TO THE CONTRACTOR.
24. ALL TRACT BOUNDARY WALLS SHALL BE STAKED AND VERIFIED FOR HEIGHT AND LOCATION BY CIVIL ENGINEER OR LAND SURVEYOR.
25. ALL AREAS UNDER PUBLIC AND PRIVATE STREETS, CURBS AND GUTTERS SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
26. IF ANY OIL SUMPS OR CONTAMINATED SOILS ARE FOUND DURING THE GRADING OF THE SITE, ALL GRADING IN THESE AREAS SHALL CEASE. SOILS CHEMICAL TEST SHALL BE TAKEN WITH RESULTS PROVIDED TO THE CITY OF SOUTH GATE BUILDING AND SAFETY OFFICIAL AND THE COUNTY HEALTH DEPARTMENT. GRADING MAY RE-COMMENCE AFTER APPROVAL FROM THE COUNTY HEALTH DEPARTMENT AND THE CITY HAS BEEN OBTAINED. ALL CONTAMINATED EARTH SHALL BE REMOVED FROM THE SITE AND/OR DISPOSED OF IN AN APPROVED MANNER.
27. ALL WORK PERFORMED IN THE CITY RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE CITY'S PUBLIC WORKS ENGINEERING DIVISION. PERMITS ARE TO BE OBTAINED PRIOR TO BEGINNING WORK.
28. SOILS COMPACTION REPORTS ARE REQUIRED AND THE REPORTS SHALL BE PROVIDED TO THE BUILDING AND SAFETY OFFICIAL AT COMPLETION OF GRADING AND PRIOR TO FOUNDATION PLACEMENT.
29. ALL GRADING IS TO COMPLY WITH APPENDIX CHAPTER 33 OF THE MOST CURRENT ADOPTED VERSION OF THE CALIFORNIA BUILDING CODE
30. SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER IS ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG.
31. ALL PROPOSED AND/OR EXISTING SLOPE OR DRAINAGE EASEMENTS ARE TO BE SHOWN ON THE GRADING PLAN.
32. ALL PROPOSED GRADING, EXCEPT FOR OFF-SITE IMPORT EARTH, SHALL BE MAINTAINED WITHIN THE BOUNDARIES OF THE SITE FOR WHICH THE GRADING PERMIT IS ISSUED.
33. THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OUTLINES SITE STORM WATER POLLUTION ISSUES AND BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT ILLEGAL DISCHARGES OF STORM WATER POLLUTANTS FROM THE CONSTRUCTION SITE. CONTRACTOR SHALL MAINTAIN AN APPROVED COPY OF THE SWPPP ON-SITE AT ALL TIMES DURING CONSTRUCTION, AND SHALL IMPLEMENT ADEQUATE BMPS TO COMPLY WITH CITY OF SOUTH GATE STORM WATER MANAGEMENT PLAN. FAILURE TO DO SO WILL RESULT IN THE ISSUANCE OF A STOP WORK NOTICE UNTIL THE ILLEGAL DISCHARGE IS ADEQUATELY ENDED, CLEANED UP, AND PREVENTED FROM FURTHER OCCURRENCE.

FUGITIVE DUST CONTROL NOTES

1. NO PERSON SHALL CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY ACTIVE OPERATION, OPEN STORAGE PILE, OR DISTRIBUTED SURFACE AREA SUCH THAT:
    A. THE DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE; OR
    B. THE DUST EMISSION EXCEEDS 20 PERCENT OPACITY (AS DETERMINED BY THE APPROPRIATE TEST METHOD INCLUDED IN THE RULE 403 IMPLEMENTATION HANDBOOK), IF THE DUST EMISSION IS THE RESULT OF MOVEMENT OF MOTORIZED VEHICLE.
2. NO PERSON SHALL CONDUCT ACTIVE OPERATIONS WITHOUT UTILIZING THE APPLICABLE BEST AVAILABLE CONTROL MEASURES INCLUDED IN TABLE 1 OF THIS RULE TO MINIMIZE FUGITIVE DUST EMISSIONS FROM EACH FUGITIVE DUST SOURCE TYPE WITHIN THE ACTIVE OPERATION.
3. NO PERSON SHALL CAUSE OR ALLOW PM10 LEVELS TO EXCEED 50 MICROGRAMS PER CUBIC METER WHEN DETERMINED, BY SIMULTANEOUS SAMPLING, AS THE DIFFERENCE BETWEEN UPWIND AND DOWNWIND SAMPLES COLLECTED ON HIGH-VOLUME PARTICULATE MATTER SAMPLERS OR OTHER U.S. EPA-APPROVED EQUIVALENT METHOD FOR PM10 MONITORING. IF SAMPLING IS CONDUCTED, SAMPLERS SHALL BE:
    A. OPERATED, MAINTAINED, AND CALIBRATED IN ACCORDANCE WITH 40 CODE OF FEDERAL REGULATIONS (CFR), PART 50, APPENDIX J,OR APPROPRIATE U.S. EPA-PUBLISHED DOCUMENTS FOR U.S. EPA-APPROVED EQUIVALENT METHOD(S) FOR PM10.
    B. REASONABLY PLACED UPWIND AND DOWNWIND OF KEY ACTIVITY AREAS AND AS CLOSE TO THE PROPERTY LINE AS FEASIBLE, SUCH THAT OTHER SOURCES OF FUGITIVE DUST BETWEEN THE SAMPLER AND THE PROPERTY LINE ARE MINIMIZED.
4. NO PERSON SHALL ALLOW TRACT-OUT TO EXTEND 25 FEET OR MORE IN CUMULATIVE LENGTH FROM THE POINT OF ORIGIN FROM AC ACTIVE OPERATION, NOTWITHSTANDING THE PRECEDING, ALL TRACT-OUT FROM AN ACTIVE OPERATION SHALL BE REMOVED AT THE CONCLUSION OF EACH WORKDAY OR EVENING SHIFT.
5. AFTER JANUARY 1, 2005, NO PERSON SHALL CONDUCT AN ACTIVE OPERATION WITH A DISTURBED SURFACE AREA OF FIVE OR MORE ACRES, OR WITH A DAILY IMPORT OF EXPORT OF 100 CUBIC YARDS OR MORE OF BULK MATERIALS WITHOUT UTILIZING AT LEAST ONE OF THE MEASURES LISTED IN SUBPARAGRAPHS (D)(5)(E) AT EACH VEHICLE EGRESS FROM THE SITE TO A PAVED PUBLIC ROAD.
    A. INSTALL A PAD CONSISTING OF WASHED GRAVEL (MINIMUM-SIZE: ONE INCH) MAINTAINED IN A CLEAN CONDITION TO A DEPTH OF AT LEAST SIX INCHES AND EXTENDING AT LEAST 30 FEET WIDE AND AT LEAST 50 FEET LONG.
    B. PAVE THE SURFACE EXTENDING AT LEAST 100 FEET AND AT LEAST 20 FEET WIDE.
    C. UTILIZE A WHEEL SHAKER/WHEEL SPREADING DEVICE CONSISTING OF RAISED DIVIDERS (RAILS, PIPES, OR GRATES) AT LEAST 24 FEET LONG AND 10 FEET WIDE TO REMOVE BULK MATERIAL FROM TIRES AND VEHICLE UNDERCARRIAGES BEFORE VEHICLES EXIT THE SITE.
    D. INSTALL, AND UTILIZE A WHEEL WASHING SYSTEM TO REMOVE BULK MATERIAL FROM TIRES AND VEHICLE UNDERCARRIAGES BEFORE VEHICLES EXIT THE SITE.
    E. ANY OTHER CONTROL MEASURES APPROVED BY THE EXECUTIVE OFFICERS AND THE U.S. EPA AS EQUIVALENT TO THE ACTIONS SPECIFIED IN SUBPARAGRAPHS (D)(5)(A) THROUGH (D)(5)(D).

CONTAMINATED SOIL REMOVAL NOTE:

THE SITE HAS BEEN IDENTIFIED AS A SUPERFUND SITE BY THE EPA. ALL SOIL EXPORT MUST BE HANDLED AND DISPOSED PER EPA STANDARDS. REFER TO JHA ENVIRONMENTAL FOR CONTAMINATED SOIL EXPORTS.

GENERAL NOTES (For Off-Site Improvement)

1. ALL PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED AS REQUIRED BY THE CITY ENGINEER.
2. ALL PUBLIC IMPROVEMENT PLANS AND SITE GRADING PLANS SHALL BE APPROVED BY THE CITY ENGINEER.
3. ALL PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF SOUTH GATE STANDARD AND 'STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTIONS', LATEST EDITION.
4. NO PUBLIC IMPROVEMENT WORK SHALL BE UNDERTAKEN WITHOUT FIRST SECURING A PERMIT FROM PUBLIC WORKS DEPARTMENT.
5. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR 48 HOURS BEFORE COMMENCING WORK. TELEPHONE NO. (323) 357-5814.

GENERAL NOTES

1. ALL WORK IN THE CITY PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", INCLUDING ALL SUPPLEMENTS, EXCEPT AS AMENDED PER THESE PLANS AND SPECIFICATIONS, AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
2. NO REVISION SHALL BE MADE ON THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER'S OFFICE, CITY OF SOUTH GATE, (323) 357-5814, AT LEAST FORTY EIGHT HOURS (48) BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
4. THE CONTRACTOR SHALL VERIFY AND PROTECT IN PLACE ALL EXISTING UNDERGROUND STRUCTURES. HE SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-227-2600 FORTY EIGHT HOURS (48) PRIOR TO START OF CONSTRUCTION.
5. ALL SUB-GRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED BY THE SOILS ENGINEER.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES OF EVERY NATURE, WHETHER SHOWN ON THESE PLANS SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF ANY UTILITIES DAMAGED BY OPERATIONS IN CONNECTION WITH THE PROSECUTION OF THE WORK.
7. BEFORE WORK CAN BE STARTED THE CONTRACTOR MUST OBTAIN A PERMIT TO WORK IN CITY STREETS FROM THE PUBLIC WORKS ENGINEERING DIVISION.
8. APPROVAL OF THIS PLAN BY THE CITY ENGINEER DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT.

LEGEND & ABBREVIATIONS:

EXIST. CURB AND GUTTER	PROPOSED CURB AND GUTTER	AC	ASPHALT CONCRETE	ICB	IRRIGATION CONTROL BOX		
EXIST. FIRE HYDRANT	RIGHT OF WAY	ACU	AIR CONDITIONING UNIT	ICV	IRRIGATION CONTROL VALVE		
EXIST. VALVE	EASEMENT	BCR	BEGIN CURB RETURN	IP	IRONPIPE		
EXIST. STORM DRAIN	PROPOSED DOMESTIC WATER	BD	BOLLARD	JNC	JUNCTION		
EXIST. MANHOLE	PROPOSED RECLAIMED WATER	BLDG	BUILDING	L&T	LEAD & TACK		
EXIST. CATCH BASIN	PROPOSED SEWER	BOV	BLOWOFF VALVE	LNDG	LANDING		
EXIST. SANITARY SEWER	PROPOSED DRAIN	BRK	BRICK	LT	LIGHT		
EXIST. RECLAIMED WATER	PROPOSED STORM DRAIN	BW	BACK OF WALK	MAB	MISC. AGGREGATE BASE		
EXIST. STORM DRAIN	PROPOSED CONCRETE	BX	BOTTOM OF CURB CUT	MH	MANHOLE		
EXIST. DOMESTIC WATER	PROPOSED SIDEWALK	CAB	CRUSHED AGGREGATE BASE	MOW	MOW STRIP		
EXIST. STREET LIGHT	PROPOSED AC PAVEMENT	CATV	CABLE TV	MTR	METER		
EXIST. SPOT ELEV	PROPOSED CATCH BASIN	CB	CATCH BASIN	NPS	NO PARKING SIGN		
EXIST. CHAIN LINK FENCE	CENTER LINE	CF	CURB FACE	OH	OVERHANG		
EXIST. BLOCK WALL	LOT LINE	CFL	CONCRETE FLOWLINE	PB	PULLBOX		
EXIST. PCC		CLF	CHAIN LINK FENCE	PCC	PORTLAND CEMENT CONCRETE		
EXIST. AC PAVEMENT		CNC	CONCRETE	PP	POWER POLE		
		COM	COMMUNICATION	RG	ROUGH GRADE		
		COND	CONDUIT	RxRS	RAIL ROAD CROSSING SIGN		
		CPAD	CONCRETE PAD	S	SEWER		
		CS	CITY SIGN	SCS	SCHOOL SIGN		
		DET	DETERIORATED	SLS	SPEED LIMIT SIGN		
		DK	DECK	SD	STORM DRAIN		
		DWY	DRIVEWAY	SS	STOP SIGN		
		E	ELECTRICAL	STL	STEEL		
		ED	EDISON	TBM	TEMP. BENCH MARK		
		ECR	END CURB RETURN	TC	TOP OF CURB		
		EG	EDGE OF GUTTER	TCB	TRAFFIC CONTROL BOX		
		EOB	EDGE OF BRICK	TG	TOP OF GRATE		
		EOC	EDGE OF CONCRETE	TRANS	TRANSFORMER		
		EP	EDGE OF PAVEMENT	TS	TRAFFIC SIGNAL OR SIGN		
		FF	FINISHED FLOOR	TW	TOP OF WALL		
		FH	FIRE HYDRANT	TWR	TOWER		
		FL	FLOWLINE	TX	TOP OF CURB CUT		
		FNC	FENCE	UT	UTILITY		
		FS	FINISHED SURFACE	VLT	VAULT		
		G	GAS	VLV	VALVE		
		GA	GUY ANCHOR	WIF	WROUGHT IRON FENCE		
		GB	GRADEBREAK	WM	WATER METER		
		GEN	GENERATOR	WV	WATER VALVE		
		GM	GAS METER	YL	YARDLIGHT		

NOTES TO CONTRACTOR

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CITY OF SOUTH GATE HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
2. UNAUTHORIZED CHANGES & USES:
   CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USED OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CITY ENGINEER.
3. ACTUAL FIELD CONDITIONS MAY DIFFER FROM PLANS. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO BIDDING.
4. LOCATION OF EXISTING UTILITIES IS APPROXIMATE ONLY; CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION, AND TO INFORM THE ENGINEER IN CASE OF ANY DISCREPANCIES..
5. RECOMMENDATION FOR STRUCTURAL SECTION IS PROVIDED BY THE CITY OF SOUTH GATE STAFF AND TO BE FIELD VERIFIED DURING CONSTRUCTION.
6. CALL UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA AT 1-800-227-2600, TWO WORKING DAYS PRIOR TO EXCAVATION.
7. REMOVAL NOTE:
   ALL PAVEMENT REMOVALS SHALL BE DONE BY SAWCUT.

GRADING PLAN INDEX

SHEET	NO.
TITLE SHEET	1
TOPOGRAPHIC SURVEY & DEMOLITION PLAN	2
EROSION CONTROL PLAN	3
PRECISE GRADING & SITE IMPROVEMENT PLAN	4

FORM VERIFICATION NOTE

CONTRACTOR TO VERIFY SLOPES OF FORMS PRIOR TO POURING CONCRETE TO ENSURE SLOPES MATCH PLANS. CONTRACTOR TO VERIFY DIMENSIONS OF ADA PATH OF TRAVEL PRIOR TO POURING OF CONCRETE. CONTRACTOR TO CONTACT CIVIL ENGINEER WITH ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND PLANS PRIOR TO POURING CONCRETE.

UTILITY COMPANIES

UTILITY COMPANY	TELE. NO.	CONTACT PERSON:
- SOUTHERN CA. GAS COMPANY	1-800-427-2000	N/A
- SOUTHERN CA. EDISON COMPANY	(310) 608-5023	N/A
- CITY OF SOUTH GATE, WATER DIVISION	XXXX	XXXX
- XXXX	XXXX	XXXX
- XXXX	XXXX	XXXX
- XXXX	XXXX	XXXX

ASSESSOR'S IDENTIFICATION

LOS ANGELES COUNTY A.P.N. 6222-005-028
LOS ANGELES COUNTY A.P.N. 6222-005-030

TITLE REPORT IDENTIFICATION:

CHICAGO TITLE COMPANY,
TITLE NO 58602404519-JFA

EASEMENT NOTES

SEE SHEET 2, TOPOGRAPHIC SURVEY & DEMOLITION PLAN

AREA

SITE AREA: 99,856 SQ. FT. = 2.292 ACRES
DISTURBED AREA: 7,531 SQ. FT. = 0.173 ACRES

DATE OF SURVEY

01/22/2025

EARTHWORK QUANTITIES

EARTHWORK QUANTITIES:	CUT	FILL
RAW VOLUMES:	194 CY	– CY
10% SHRINKAGE		– CY
SUBTOTAL	194 CY	– CY
	194 CY	– CY
GRAND TOTAL:	194 CY	– CY

TOTAL EXPORT= 194 CY

NOTE: CONTRACTOR TO VERIFY VOLUMES PRIOR TO EXCAVATION

NOTE: THE CONTRACTOR WILL MOVE 194 CY. OF EXCESS DIRT TO AN OFF-SITE LOCATION
HAUL ROUTE TO BE DETERMINED AT THE PRE-GRADE MEETING TO THE SATISFACTION OF THE CITY ENGINEER

CONTRACTOR'S NOTE

CONTRACTOR RESPONSIBLE FOR REPLACING IN KIND ANY EXISTING ASPHALT, CONCRETE, STRUCTURE OR OTHER IF DAMAGED DURING CONSTRUCTION.

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BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS NORTH 37°21'33" EAST ALONG THE CENTERLINE OF RAYO AVENUE AS SHOWN ON RECORD OF SURVEY, FILED IN BOOK 304, PAGE 95 OF RECORDS OF SURVEY, IN THE OFFICE OF LOS ANGELES COUNTY RECORDER, STATE OF CALIFORNIA.

BENCH MARK

COUNTY OF LOS ANGELES BM #PY 10775 DPW BM TAG IN CATCH BASIN 2 FEET EAST OF BEGIN CURB RETURN AT NORTHEAST CORNER MASON STREET AND FIRESTONE BOULEVARD.
ELEVATION = 111.240 (NAVD 88)

LEGAL DESCRIPTION:

FOR APN/PARCEL ID(S): 6222-005-028 AND 6222-005-030

P. 1-389 FOR DESC SEE ASSESSOR'S MAPS POR OF SD RO SAN ANTONIO

REVISIONS	DATE	DESCRIPTION	APPROVED	DATE

REGISTERED PROFESSIONAL ENGINEER
AARON M. ALBERTSON
NO. 65513
EXP. 9/30/27
CIVIL
STATE OF CALIFORNIA

Prepared by: AARON M. ALBERTSON Date: 12/12/25

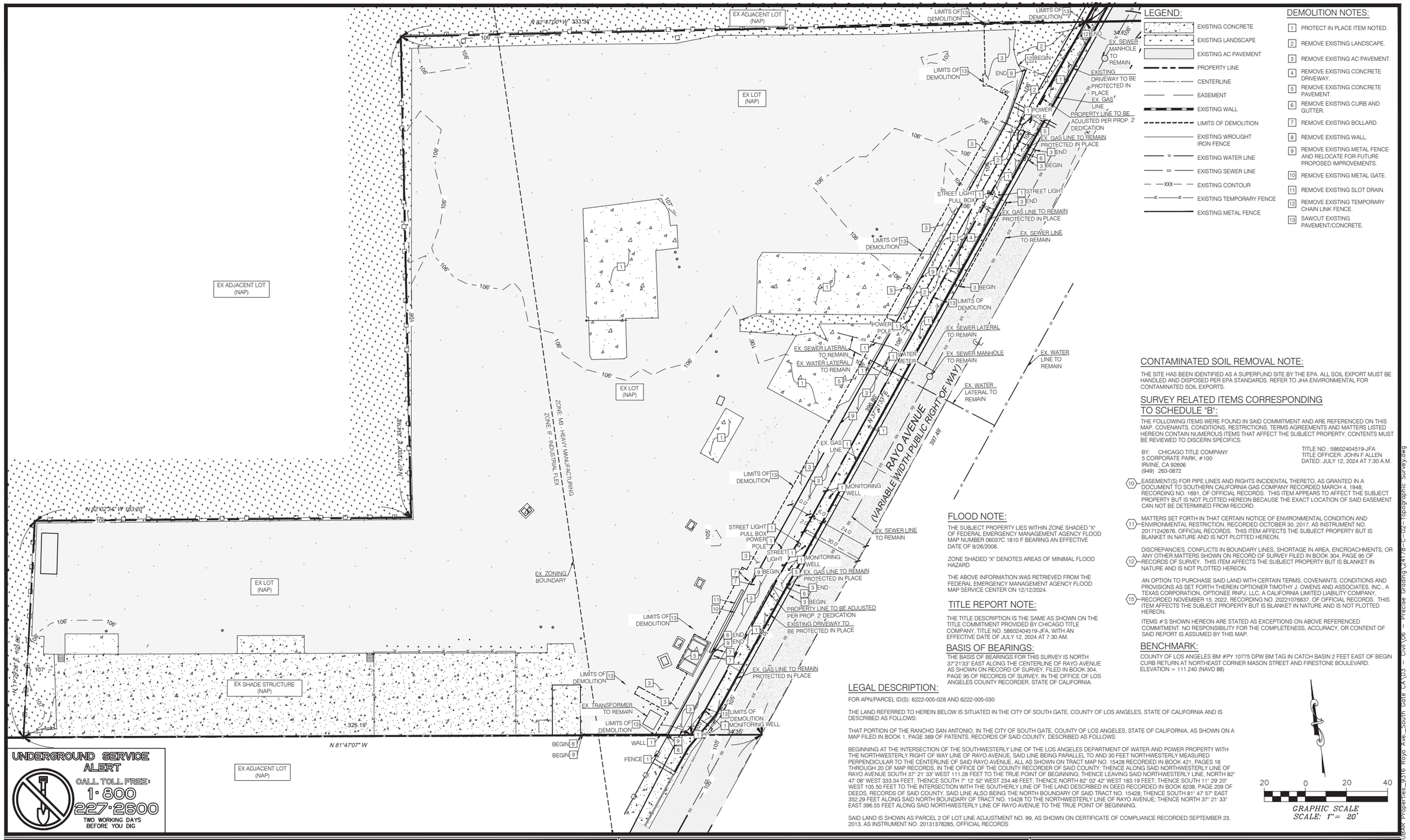
City Approval:

Recommended Approval by: _____ Date: _____
Jose Loera, City Traffic Engineer, RTE 2712

Approved by: _____ Date: _____
Arturo Cervantes, Assistant City Manager/Director of Public Works, RCE 60535

CITY OF SOUTH GATE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
MR C'S TOWING
TITLE SHEET

Project No. _____ Drawing No. _____ Sheet X of X



LEGEND:

- EXISTING CONCRETE
- EXISTING LANDSCAPE
- EXISTING AC PAVEMENT
- PROPERTY LINE
- CENTERLINE
- EASEMENT
- EXISTING WALL
- LIMITS OF DEMOLITION
- EXISTING WROUGHT IRON FENCE
- EXISTING WATER LINE (w)
- EXISTING SEWER LINE (ss)
- EXISTING CONTOUR (XXX)
- EXISTING TEMPORARY FENCE (x)
- EXISTING METAL FENCE

DEMOLITION NOTES:

1. PROTECT IN PLACE ITEM NOTED.
2. REMOVE EXISTING LANDSCAPE.
3. REMOVE EXISTING AC PAVEMENT.
4. REMOVE EXISTING CONCRETE DRIVEWAY.
5. REMOVE EXISTING CONCRETE PAVEMENT.
6. REMOVE EXISTING CURB AND GUTTER.
7. REMOVE EXISTING BOLLARD.
8. REMOVE EXISTING WALL.
9. REMOVE EXISTING METAL FENCE AND RELOCATE FOR FUTURE PROPOSED IMPROVEMENTS.
10. REMOVE EXISTING METAL GATE.
11. REMOVE EXISTING SLOT DRAIN.
12. REMOVE EXISTING TEMPORARY CHAIN LINK FENCE.
13. SAWCUT EXISTING PAVEMENT/CONCRETE.

CONTAMINATED SOIL REMOVAL NOTE:

THE SITE HAS BEEN IDENTIFIED AS A SUPERFUND SITE BY THE EPA. ALL SOIL EXPORT MUST BE HANDLED AND DISPOSED PER EPA STANDARDS. REFER TO JHA ENVIRONMENTAL FOR CONTAMINATED SOIL EXPORTS.

SURVEY RELATED ITEMS CORRESPONDING TO SCHEDULE "B":

THE FOLLOWING ITEMS WERE FOUND IN SAID COMMITMENT AND ARE REFERENCED ON THIS MAP. COVENANTS, CONDITIONS, RESTRICTIONS, TERMS AGREEMENTS AND MATTERS LISTED HEREON CONTAIN NUMEROUS ITEMS THAT AFFECT THE SUBJECT PROPERTY, CONTENTS MUST BE REVIEWED TO DISCERN SPECIFICS.

BY: CHICAGO TITLE COMPANY
5 CORPORATE PARK, #100
IRVINE, CA 92606
(949) 263-0872

TITLE NO.: 58602404519-JFA
TITLE OFFICER: JOHN F ALLEN
DATED: JULY 12, 2024 AT 7:30 A.M.

10. EASEMENT(S) FOR PIPE LINES AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO SOUTHERN CALIFORNIA GAS COMPANY RECORDED MARCH 4, 1948, RECORDING NO. 1691, OF OFFICIAL RECORDS. THIS ITEM APPEARS TO AFFECT THE SUBJECT PROPERTY BUT IS NOT PLOTTED HEREON BECAUSE THE EXACT LOCATION OF SAID EASEMENT CAN NOT BE DETERMINED FROM RECORD.

11. MATTERS SET FORTH IN THAT CERTAIN NOTICE OF ENVIRONMENTAL CONDITION AND ENVIRONMENTAL RESTRICTION, RECORDED OCTOBER 30, 2017, AS INSTRUMENT NO. 20171242676, OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY BUT IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

12. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER MATTERS SHOWN ON RECORD OF SURVEY FILED IN BOOK 304, PAGE 95 OF RECORDS OF SURVEY. THIS ITEM AFFECTS THE SUBJECT PROPERTY BUT IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

15. AN OPTION TO PURCHASE SAID LAND WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS AS SET FORTH THEREIN OPTIONER TIMOTHY J. OWENS AND ASSOCIATES, INC., A TEXAS CORPORATION, OPTIONEE RNPJ, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY, RECORDED NOVEMBER 15, 2022, RECORDING NO. 20221076837, OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY BUT IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

ITEMS #'S SHOWN HEREON ARE STATED AS EXCEPTIONS ON ABOVE REFERENCED COMMITMENT. NO RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR CONTENT OF SAID REPORT IS ASSUMED BY THIS MAP.

FLOOD NOTE:

THE SUBJECT PROPERTY LIES WITHIN ZONE SHADED "X" OF FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD MAP NUMBER 06037C 1810 F BEARING AN EFFECTIVE DATE OF 9/26/2008.

ZONE SHADED "X" DENOTES AREAS OF MINIMAL FLOOD HAZARD

THE ABOVE INFORMATION WAS RETRIEVED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD MAP SERVICE CENTER ON 12/12/2024.

TITLE REPORT NOTE:

THE TITLE DESCRIPTION IS THE SAME AS SHOWN ON THE TITLE COMMITMENT PROVIDED BY CHICAGO TITLE COMPANY, TITLE NO. 58602404519-JFA, WITH AN EFFECTIVE DATE OF JULY 12, 2024 AT 7:30 AM.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS NORTH 37°21'33" EAST ALONG THE CENTERLINE OF RAYO AVENUE AS SHOWN ON RECORD OF SURVEY, FILED IN BOOK 304, PAGE 95 OF RECORDS OF SURVEY, IN THE OFFICE OF LOS ANGELES COUNTY RECORDER, STATE OF CALIFORNIA.

BENCHMARK:

COUNTY OF LOS ANGELES BM #PY 10775 DPW BM TAG IN CATCH BASIN 2 FEET EAST OF BEGIN CURB RETURN AT NORTHEAST CORNER MASON STREET AND FIRESTONE BOULEVARD. ELEVATION = 111.240 (NAVD 88)

LEGAL DESCRIPTION:

FOR APN/PARCEL ID(S): 6222-005-028 AND 6222-005-030

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF SOUTH GATE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF THE RANCHO SAN ANTONIO, IN THE CITY OF SOUTH GATE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON A MAP FILED IN BOOK 1, PAGE 389 OF PATENTS, RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHWESTERLY LINE OF THE LOS ANGELES DEPARTMENT OF WATER AND POWER PROPERTY WITH THE NORTHWESTERLY RIGHT OF WAY LINE OF RAYO AVENUE, SAID LINE BEING PARALLEL TO AND 30 FEET NORTHWESTERLY MEASURED PERPENDICULAR TO THE CENTERLINE OF SAID RAYO AVENUE, ALL AS SHOWN ON TRACT MAP NO. 15428 RECORDED IN BOOK 421, PAGES 18 THROUGH 20 OF MAP RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE ALONG SAID NORTHWESTERLY LINE OF RAYO AVENUE SOUTH 37° 21' 33" WEST 111.28 FEET TO THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID NORTHWESTERLY LINE, NORTH 82° 47' 08" WEST 333.34 FEET; THENCE SOUTH 7° 12' 52" WEST 234.48 FEET; THENCE NORTH 82° 02' 42" WEST 183.19 FEET; THENCE SOUTH 11° 29' 20" WEST 105.50 FEET TO THE INTERSECTION WITH THE SOUTHERLY LINE OF THE LAND DESCRIBED IN DEED RECORDED IN BOOK 6238, PAGE 209 OF DEEDS, RECORDS OF SAID COUNTY, SAID LINE ALSO BEING THE NORTH BOUNDARY OF SAID TRACT NO. 15428; THENCE SOUTH 81° 47' 57" EAST 352.29 FEET ALONG SAID NORTH BOUNDARY OF TRACT NO. 15428 TO THE NORTHWESTERLY LINE OF RAYO AVENUE; THENCE NORTH 37° 21' 33" EAST 396.55 FEET ALONG SAID NORTHWESTERLY LINE OF RAYO AVENUE TO THE TRUE POINT OF BEGINNING.

SAID LAND IS SHOWN AS PARCEL 2 OF LOT LINE ADJUSTMENT NO. 99, AS SHOWN ON CERTIFICATE OF COMPLIANCE RECORDED SEPTEMBER 23, 2013, AS INSTRUMENT NO. 20131378285, OFFICIAL RECORDS

20 0 20 40
GRAPHIC SCALE
SCALE: 1" = 20'

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REVISIONS					REFERENCES
NUMBER	DATE	INITIALS		APPV'D.	

REGISTERED PROFESSIONAL ENGINEER — AARON M. ALBERTSON — NO. 65513 EXP. 9/30/27 — CIVIL — STATE OF CALIFORNIA

	DATE
DESIGN BY : AM	12/12/25
DRAWN BY : CF	12/12/25
CHECKED BY: AMA	12/12/25
DRAWING FILE: C-02 TOPO & DEMO PLAN	12/12/25

Prepared by: AARON M. ALBERTSON Date: 12/12/25

City Approval:

Recommended Approval by: _____ Date: _____
Jose Loera, City Traffic Engineer, RTE 2712

Approved by: _____ Date: _____
Arturo Cervantes, Assistant City Manager/Director of Public Works, RCE 66535

Development Reference: _____

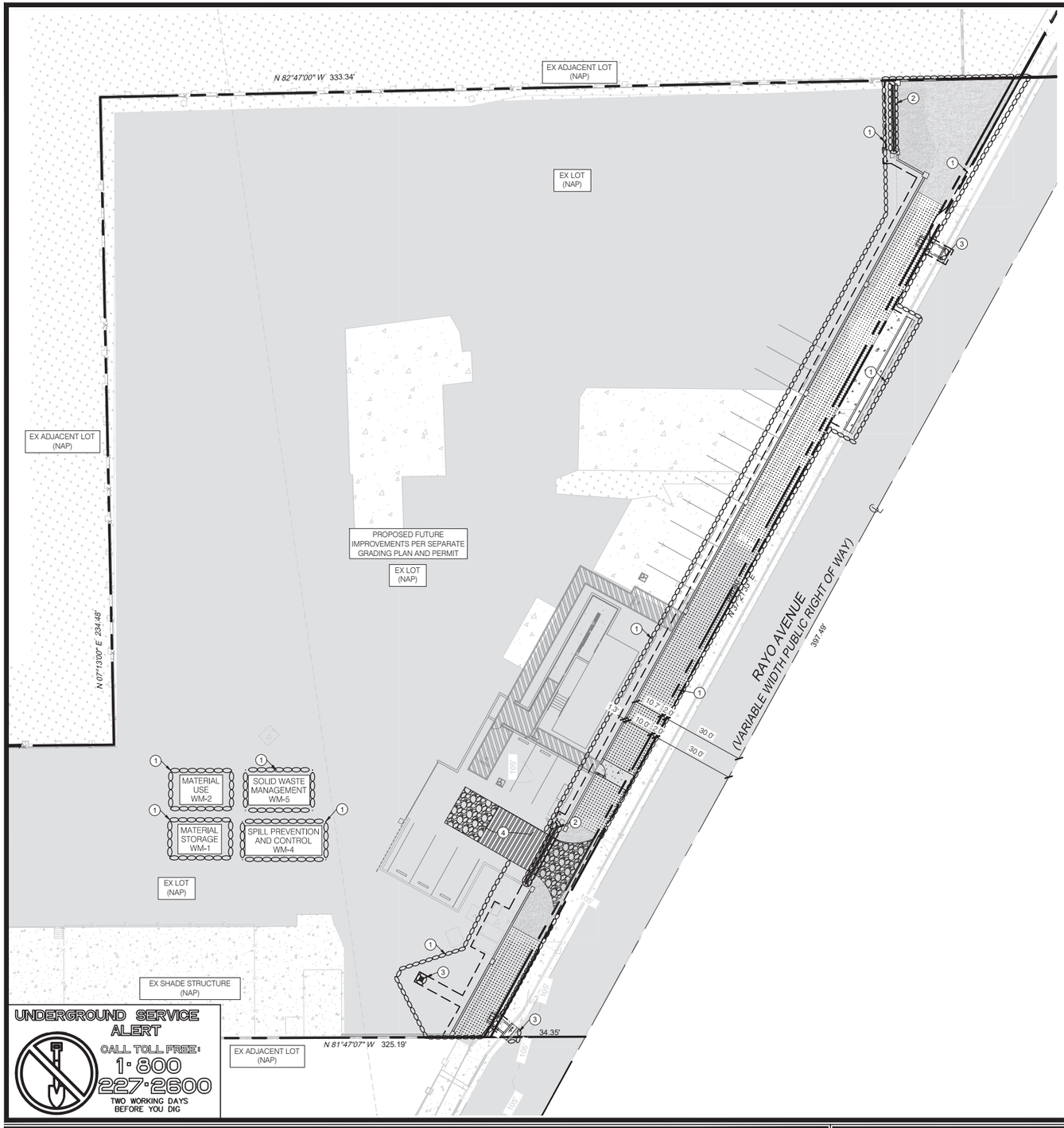
CITY OF SOUTH GATE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

MR. C'S TOWING
TOPO SURVEY & DEMOLITION PLAN

Project No. _____ Drawing No. _____ Sheet 02 of 04

DWG. NO. 02

S:\Projects\2024\24178_UDAR Properties_3916 Rayo Ave._South Gate CA\03 - Civil\06 - Precise Grading\24178-C-02-Topographic Survey.dwg



UNDERGROUND SERVICE ALERT

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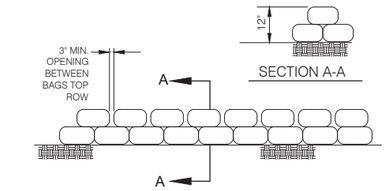
NON-STORMWATER MANAGEMENT		
NS-3	PAVING AND GRINDING OPERATIONS	PREVENT OR REDUCE DISCHARGE OF POLLUTANTS FROM PAVING OPERATIONS, USING MEASURES TO PREVENT RUN-ON AND RUNOFF POLLUTION, PROPERLY DISPOSING OF WASTES, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.
NS-8	VEHICLE AND EQUIPMENT CLEANING	ALL VEHICLES AND EQUIPMENT WILL BE CLEANED OFF-SITE.
NS-9	VEHICLE AND EQUIPMENT FUELING	ALL VEHICLES AND EQUIPMENT WILL BE FUELED OFF-SITE.
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE	STREET SHALL BE SWEPT AND SEDIMENT COLLECTED AND DISPOSED OF OFF-SITE ON A DAILY BASIS.
NS-12	CONCRETE CURING	USE PROPER STORAGE AND HANDLING TECHNIQUES FOR CONCRETE CURING COMPOUNDS.
NS-13	CONCRETE FINISHING	COLLECT AND PROPERLY DISPOSE OF WATER FROM HIGH-PRESSURE WATER BLASTING OPERATIONS.
TEMPORARY SEDIMENT CONTROL		
SE-6	GRAVEL BAG BERM	INSTALL BERMS ON A LEVEL CONTOUR TO INTERCEPT SHEET FLOWS.
SE-7	STREET SWEEPING AND VACUUMING	STREET SHALL BE SWEPT AND SEDIMENT COLLECTED AND DISPOSED OF OFF-SITE ON A DAILY BASIS.
SE-10	STORM DRAIN INLET PROTECTION	ONCE INLET RISERS ARE CONSTRUCTED, SURROUND RISERS WITH GRAVEL BAGS OR CAP THE RISER TO REDUCE SEDIMENT INTRODUCTION TO THE AREA DRAIN SYSTEM. PLACE INLET PROTECTION AT NEAREST DOWNSTREAM STORM DRAIN INLET.
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL		
WM-1	MATERIAL DELIVERY AND STORAGE	MATERIALS SHALL BE STORED ON-SITE IN ORIGINAL MARKED CONTAINERS AND COVERED FROM RAIN AND WIND. MATERIAL INVENTORY SHALL CONSIST OF SUPPLY REQUIRED FOR A FEW DAYS.
WM-2	MATERIAL USE	MATERIALS FOR CONSTRUCTION SHALL BE USED IN ACCORDANCE WITH THE PRODUCT DIRECTIONS.
WM-3	STOCKPILE MANAGEMENT	MATERIALS STOCKPILES SHALL BE SURROUNDED BY TEMPORARY SEDIMENT BARRIER AND COVERED TO MAINTAIN DUST CONTROL.
WM-4	SPILL PREVENTION AND CONTROL	AMPLE CLEAN-UP SUPPLIES FOR STORED MATERIALS SHALL BE KEPT ON-SITE. EMPLOYEES SHALL BE EDUCATED ON THE CLASSIFICATIONS OF SPILLS AND APPROPRIATE RESPONSES.
WM-5	SOLID WASTE MANAGEMENT	SOLID WASTE RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE STORED IN APPROPRIATE CONTAINERS. FULL CONTAINERS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
WM-8	CONCRETE WASTE MANAGEMENT	AN ON-SITE CONCRETE WASHOUT AREA SHALL, BE CONSTRUCTED, USED AND DISPOSED OF IN A MANNER WHICH MEETS THE REQUIREMENT OF THE CITY.
EROSION CONTROL BMPS		
EC-1	SCHEDULING	SCHEDULING PREPARED BY THE CONTRACTOR SHALL BE ON-SITE DURING CONSTRUCTION.
WIND EROSION CONTROL		
WE-1	WIND EROSION CONTROL	APPLY WATER OR OTHER CHEMICAL DUST SUPPRESSANTS OVER STOCKPILES.

CONSTRUCTION NOTES:

1. GRAVEL BAGS PER DETAIL A, THIS SHEET.
2. GRAVEL BAG/CHECK DAM AT INLET PROTECTION PER DETAIL B, THIS SHEET. EROSION CONTROL MEASURE TO BE INSTALLED ONCE STABILIZED CONSTRUCTION ENTRANCE IS REMOVED AT END OF PROJECT.
3. GRAVEL BAG/CHECK DAM AT INLET PROTECTION PER DETAIL B, THIS SHEET.
4. STABILIZED CONSTRUCTION ENTRANCE PER DETAIL C, THIS SHEET.

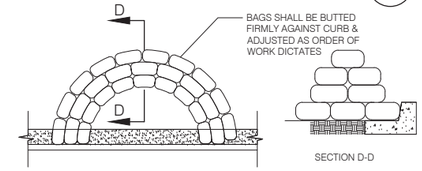
LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT
- EXISTING CENTERLINE
- EXISTING CONCRETE
- EXISTING LANDSCAPE
- EXISTING ASPHALT
- PROPOSED AC PAVEMENT
- EXISTING SITE WALL
- 400 — EXISTING CONTOUR
- GRAVEL BAG BERM
- INLET PROTECTION
- LIMITS OF DEMOLITION



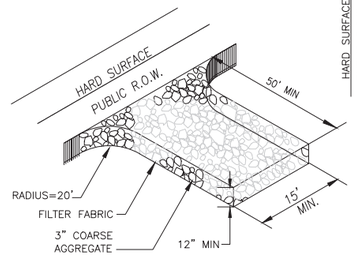
GRAVEL BAG DETAIL (A)

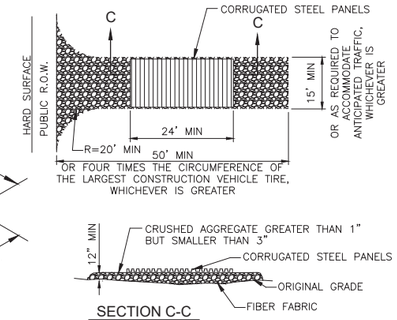
NOT TO SCALE



GRAVEL BAG DETAIL (B)

NOT TO SCALE





STABILIZED CONSTRUCTION ENTRANCE (C)

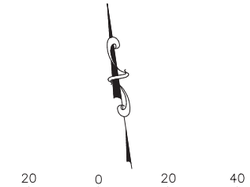
NOT TO SCALE

CONTAMINATED SOIL REMOVAL NOTE:

THE SITE HAS BEEN IDENTIFIED AS A SUPERFUND SITE BY THE EPA. ALL SOIL EXPORT MUST BE HANDLED AND DISPOSED PER EPA STANDARDS. REFER TO JHA ENVIRONMENTAL FOR CONTAMINATED SOIL EXPORTS.

BMP NOTES

1. BMP'S SHALL BE ADDED TO THIS PLAN AS NEEDED.
2. SILT FENCING AND/OR STRAW WATTLES MAY BE USED IN LIEU OF GRAVEL BAGS.
3. THE QSP OR CONTRACTOR SHALL DELINEATE THE LOCATION(S) OF ALL VEHICLE STORAGE AREAS ON SITE MAP AND IMPLEMENT APPROPRIATE BMP'S (NS-8, NS-9, NS-10).
4. THE QSP OR CONTRACTOR SHALL DELINEATE THE LOCATION(S) OF ALL WASTE/MATERIAL STORAGE AREAS ON SITE MAP IN APPENDIX B-4 AND IMPLEMENT APPROPRIATE BMP'S (WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-7, WM-8, WM-9).
5. USE THIS PLAN IN CONJUNCTION WITH THE PROJECTS SWPPP.
6. IF THERE IS A CONFLICT BETWEEN DOCUMENTS, THE NARRATIVE BODY IN THE PROJECTS SWPPP SHALL PREVAIL OVER THIS PLAN.
7. IMPLEMENT STREET SWEEPING AT ADJACENT STREETS PER CASQA BMP SE-7.
8. WIND EROSION OR DUST CONTROL SHALL BE IMPLEMENTED WITH APPROPRIATE BMP (WE-1).



REVISIONS					REFERENCES
NUMBER	DATE	INITIALS		APP'D.	

REGISTERED PROFESSIONAL ENGINEER — AARON M. ALBERTSON — NO. 65513 EXP. 9/30/27 — CIVIL — STATE OF CALIFORNIA

	DATE
DESIGN BY : AM	12/12/25
DRAWN BY : CF	12/12/25
CHECKED BY: AMA	12/12/25
DRAWING FILE:C-03 EROSION CONTROL PLAN	12/12/25

Prepared by: AARON M. ALBERTSON Date: 12/12/25

City Approval:

Recommended Approval by: _____ Date: _____
Jose Loera, City Traffic Engineer, RTE 2712

Approved by: _____ Date: _____
Arturo Cervantes, Assistant City Manager/Director of Public Works, RCE 66535

Development Reference: _____

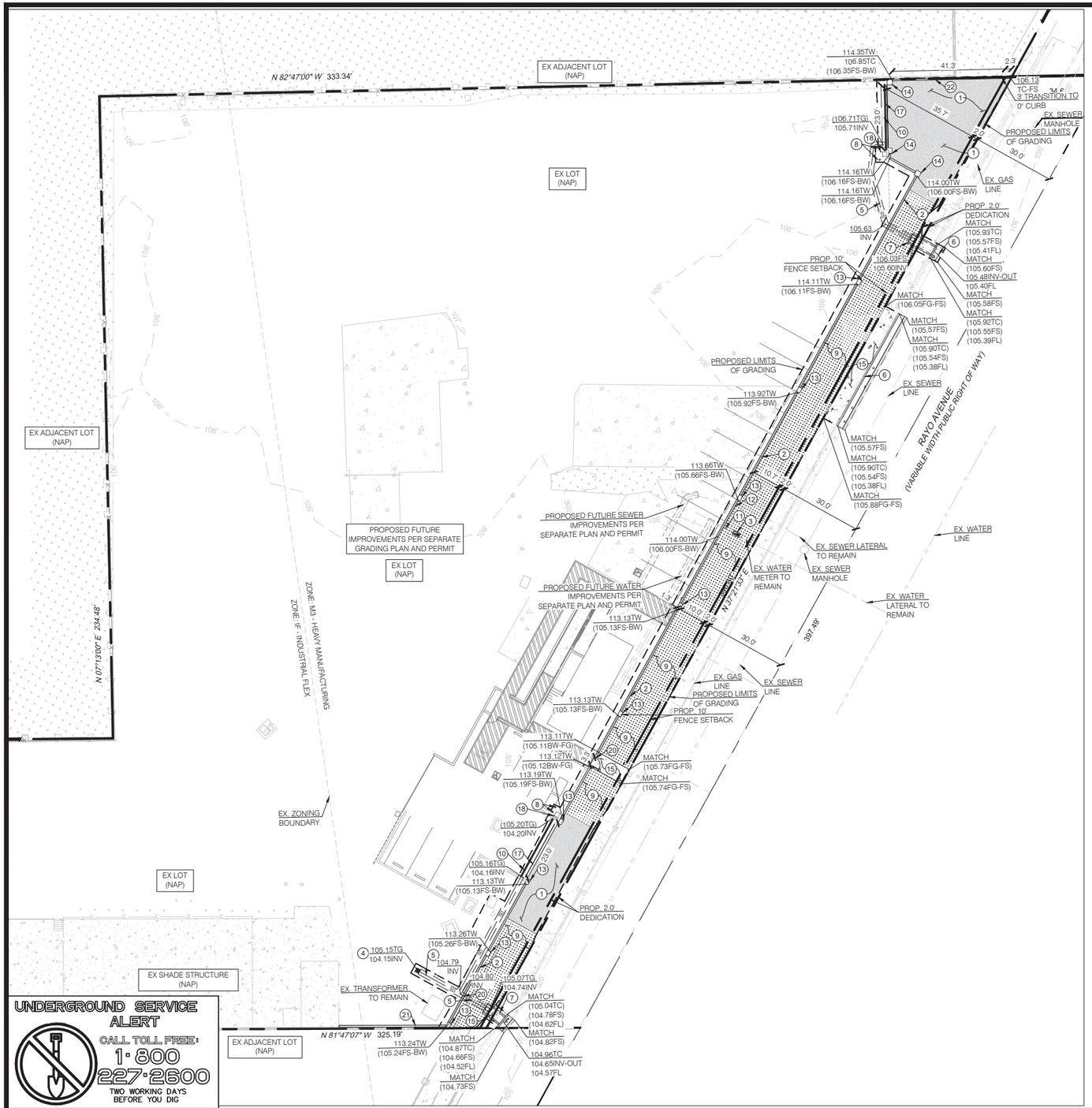
CITY OF SOUTH GATE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

MR. C'S TOWING
EROSION CONTROL PLAN

DWG. NO. 03

Project No. _____ Drawing No. _____ Sheet 03 of 04

S:\Projects\2024\24178_JBAR Properties_9316 Rayo Ave._South Gate CA\03 - Civil\06 - Precise Grading\24178-C-03-Erosion Control Plan.dwg



ABBREVIATIONS:

(XX.XX)	EXISTING ELEVATION
BOW	BACK OF WALK
BFP	BACKFLOW PREVENTOR
CF	CURB FACE
ELEV	ELEVATION
EX	EXISTING
FF	FINISH FLOOR
FL	FLOW LINE
FG	FINISH GRADE
FS	FINISH SURFACE
FH	FIRE HYDRANT
GB	GRADE BREAK
INV	INVERT
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALL
TYP	TYPICAL
WM	WATER METER
SS	SANITARY SEWER
CC	CURB CUT
LA	LANDSCAPE AREA
PL	PROPERTY LINE
RW	RIGHT-OF-WAY
R	RIDGE

LEGEND

- EXISTING CONCRETE
- EXISTING LANDSCAPE
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- PROPOSED ASPHALT
- EXISTING ASPHALT
- PROPERTY LINE
- CENTERLINE
- LIMITS OF DEMOLITION
- UTILITY TRENCHING
- PROPOSED CONTOUR (XX)
- EXISTING CONTOUR (XX)
- PROPOSED PERIMETER WALL
- EXISTING RETAINING WALL
- PROPOSED FUTURE SEWER LINE (SS)
- PROPOSED FUTURE WATER LINE (W)
- PROPOSED STORM DRAIN (SD)
- PROPOSED BACKFLOW PREVENTER

CONSTRUCTION NOTES:

1. CONSTRUCT 1" GRIND AND 2" ASPHALT PAVEMENT OVERLAY PER SOILS REPORT RECOMMENDATIONS. SEE DETAIL "A", THIS SHEET FOR EXCERPT FROM SOILS REPORT.
2. CONSTRUCT 8.0' HIGH, 8" THICK CMU BLOCK SITE WALL. REFER TO THIS PLAN FOR ELEVATIONS. SEE SEPARATE STRUCTURAL PLANS FOR FOOTING DESIGN PREPARED BY ENGTEGRITY, INC.
3. INSTALL 1" BACKFLOW PREVENTION DEVICE PER CITY OF SOUTH GATE STANDARD DRAWINGS FOR WATER AND SEWER SYSTEMS, DETAIL WD-11.
4. INSTALL 12" X 12" ADS NYLOPLAST INLINE DRAIN WITH SQUARED TRAFFIC RATED GRATE.
5. INSTALL 6" Ø ADS N12 HDPE STORM PIPE PER MANUFACTURES SPEC. AND SOILS REPORT RECOMMENDATIONS.
6. CONSTRUCT CONCRETE CURB AND GUTTER PER SPPWC PLAN, DETAIL 120-2 A2-6(150).
7. INSTALL PARKWAY DRAIN PER SPPWC STANDARD PLAN, DETAIL 151-3.
8. INSTALL GUARD POST PER ARCHITECTURAL PLANS PREPARED BY CORSINI STARK ARCHITECTS.
9. INSTALL LANDSCAPING PER SEPARATE PLAN AND PERMIT PREPARED BY CDR
10. INSTALL NDS DURA-SLOPE TRENCH DRAIN WITH SQUARED TRAFFIC RATED GRATE.
11. EXISTING WATER LINE TO BE SLEEVED UNDER WALL FOOTING PER STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
12. EXISTING SEWER LINE TO BE SLEEVED UNDER WALL FOOTING PER STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
13. CONSTRUCT 16" X 24" SITE WALL COLUMN. REFER TO THIS PLAN FOR ELEVATIONS AND SEE SEPARATE STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
14. CONSTRUCT 24" X 24" SITE WALL COLUMN. REFER TO THIS PLAN FOR ELEVATIONS AND SEE SEPARATE STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
15. CONSTRUCT 6" CONCRETE PAVEMENT PER SOILS REPORT RECOMMENDATIONS. SEE DETAIL "A", THIS SHEET FOR EXCERPT FROM SOILS REPORT.
16. INSTALL ADA DIRECTIONAL SIGNAGE
17. INSTALL GATE PER SEPARATE ARCHITECTURAL PLAN AND PERMIT PREPARED BY CORSINI STARK ARCHITECTS.
18. INSTALL GATE OPENER PER SEPARATE ARCHITECTURAL PLAN AND PERMIT PREPARED BY CORSINI STARK ARCHITECTS.
19. INSTALL SLEEVE UNDER WALL FOOTING PER STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
20. INSTALL MAN DOOR PER SEPARATE ARCHITECTURAL PLAN AND PERMIT PREPARED BY CORSINI STARK ARCHITECTS.
21. INSTALL METAL FENCE PER SEPARATE STRUCTURAL PLAN PREPARED BY ENGTEGRITY, INC.
22. CONSTRUCT CONCRETE CURB AND GUTTER PER SPPWC PLAN, DETAIL 120-2 A1-8(150).

PAVEMENT RECOMMENDATIONS DETAIL

EXCERPT FROM SOILS REPORT

A

20 0 20 40

GRAPHIC SCALE
SCALE: 1" = 20'

REVISIONS

NUMBER	DATE	INITIALS		APPV'D.

REFERENCES

REGISTERED PROFESSIONAL ENGINEER AARON M. ALBERTSON NO. 65513 EXP. 9/30/27 CIVIL STATE OF CALIFORNIA

	DATE
DESIGN BY : AM	12/12/25
DRAWN BY : CF	12/12/25
CHECKED BY: AMA	12/12/25
DRAWING FILE: C-04 PRECISE GRADING PLAN	12/12/25

Prepared by: AARON M. ALBERTSON Date: 12/12/25

City Approval:

Recommended Approval by: _____ Date: _____
Jose Loera, City Traffic Engineer, RTE 2712

Approved by: _____ Date: _____
Arturo Cervantes, Assistant City Manager/Director of Public Works, RCE 60535

Development Reference: _____

CITY OF SOUTH GATE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

MR. C'S TOWING
PRECISE GRADING PLAN

DWG. NO. 04

Project No. _____ Drawing No. _____ Sheet 06 of 04

S:\Projects\2024\24178_UBAR Properties_9316 Rayo Ave._South Gate CA\03 - Civil\06 - Precise Grading\24178-C-04-Precise Grading.dwg

GENERAL NOTES

1. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT OR ENGINEER OF RECORD (EOR) SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. DIMENSIONING SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON PROJECT.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, AND ANY OTHER REGULATING AGENCIES WHICH HAVE ATHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
6. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ON ANY OR ALL SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT CONSTRUED AS BEING THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
7. THESE PLANS ARE INTENDED SOLELY FOR THE USE OF THE OWNER FOR CONSTRUCTION AND ARE EXPRESSLY NOT INTENDED FOR THE USE IN MARKETING. EXTERIOR ELEVATIONS AND OTHER DETAILS ON THESE PLANS ARE ONLY A REPRESENTATION AND MAY VARY SIGNIFICANTLY FROM THE ACTUAL CONSTRUCTION.
8. IN THE EVENT OF CONFLICT BETWEEN THE ARCHITECTURAL GENERAL NOTES AND THE STRUCTURAL GENERAL NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

FOUNDATION/SITEWORK

1. THE FOUNDATION DESIGN IS BASED ON GEOTECNICAL REPORT BY:
   NORCAL ENGINEERING
   PROJECT NUMBER: 25712-25
   DATED: DECEMBER 9, 2025

CONCRETE

1. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. CONCRETE SHALL BE DESIGNED AND TESTED AS OUTLINED IN THE SPECS.
3. ALL CEMENT SHALL CONFORM TO ASTM C-150, TYPE II CEMENT WITH W/C RATIO OF 0.55 AND f'c min= 2500 psi.
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE AND ASTM C-330 FOR LIGHT WEIGHT CONCRETE.
5. ALL AGGREGATE SHALL BE COMPARABLE TO "SAN GABRIEL VALLEY" AGGREGATE. THE SHRINKAGE SHALL BE AS PER ASTM C-157 WITH THE AVERAGE DRYING SHRINKAGE AT 28-DAYS NOT EXCEEDING 0.04
6. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THEN TREE PARTS SAND.
7. ANCHOR BOLTS, HOLDOWN BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
8. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10-DAYS OR BY AN APPROVED CURING COMPOUND.
9. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ITEMS TO BE CAST INTO FOR MISCELLANEOUS CONCRETE AND FLOOR DEPRESSIONS, PITS, ETC.
10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSIONS JOINTS, SCORING, ETC. FOR CONCRETE WALKS AND SLABS.
11. ALL STRUCTURAL CONCRETE.....f'c = 2,500 PSI
    ALL CAISSONS.....f'c = 2,500 PSI
    ALL CONTINUOUS FOOTINGS AND PADS.....f'c = 2,500 PSI
    ALL CONCRETE SHALL READ MINIMUM COMPRESSIVE STRENGTH 28-DAYS.
12. ALL CONCRETE WITH f'c GREATER THAN 2,500 PSI SHALL HAVE SPECIAL INSPECTION PER SECTION 1702 OF THE UNIFORM BUILDING CODE UNLESS NOTED OTHERWISE.
13. CONCRETE FOR SLAB ON GRADE SHALL HAVE A MAXIMUM OF 4" OF SLUMP PER OF CEMENT PER CUBIC YARD ASTM C-143.5 SACKS OF CONCRETE. CEMENT ASTM C-150 TYPE 1 OR 2.

DESIGN CRITERIA

CODE: 2022 CALIFORNIA BUILDING CODE

DESIGN LOADS:

WIND: _____ 95 M.P.H. EXPOSURE "C"

SEISMIC: _____ SITE CLASS: "D"
SEISMIC DESIGN CATEGORY: "D"
MAXIMUM SPECTRAL RESPONSE ACCELERATION: "S_S" 1.731
"S_1" 0.618

SITE COEFFICIENTS: "F_a" 1.0
"F_v" N/A

ADJUSTED MAXIMUM ACCELERATION: "S_{MS}" 1.731
"S_{M1}" N/A

DESIGN SPECTRAL RESPONSE ACCELERATION PERIMETER: "S_{DS}" 1.154
"S_{D1}" N/A

REINFORCING STEEL

1. ALL REINFORCING SHALL BE ASTM A-615-40 FOR #4 BARS AND SMALLER. ALL REINFORCING SHALL BE ASTM A-615-60 FOR #5 BARS AND LARGER. WELDED WIRE FABRIC TO BE ASTM A-185, LAP 1-1/2 SPACES, 9" MIN. FOR STRUCTURAL SLABS ALL REINFORCING #5 AND LARGER TO BE ASTM A-615-60.
2. ALL BARS SHALL BE DEFORMED AS PER ASTM A-305.
3. ALL BARS SHALL BE CLEAN OF LOOSE FLAKY RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
4. ALL BENDS SHALL BE MADE COLD.
5. SPLICING OF BARS SHALL HAVE LAPPING OF 30 DIA. OR 2'-0" MIN. IN ALL CONTINUOUS REINFORCEMENT OF FOOTINGS AND CONCRETE WALL, EXCEPT AS NOTED ON PLANS. MASONRY REINFORCEMENT SHALL HAVE LAPPINGS OF 40~ OR 2'-0" WHICHEVER IS GREATER.
6. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE.
7. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE BARS COVER SHALL BE AS FOLLOWS:
   A. POURED AGAINST EARTH.....3"
   B. POURED AGAINST FORM BELOW GRADE.....2"
      #6 AND LARGER.....2"
      #5 AND SMALLER.....1 1/2"
   C. FORMED SLABS.....1"
   D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
   E. COLUMNS AND BEAMS TO MAIN BARS.....2"
   F. WALLS - EXPOSED TO WEATHER.....2"
      NOT EXPOSED TO WEATHER, #11 AND SMALLER.....1"
      #14 AND #18.....1 1/2"

MASONRY

1. ALL MASONRY SHALL BE REINFORCED GROUTED MASONRY. GROUT SOLID ALL CELLS.
   SPECIFIED COMPRESSIVE STRENGTH (F'm) SHALL BE 1500 PSI MINIMUM WITH INSPECTION, U.N.O. ON THE PLANS AND DETAILS.
2. MORTAR SHALL BE TYPE "S" MIXED IN THE PROPORTION OF 1 PART PORTLAND CEMENT TO 1/2 TO 1/4 PARTS LIME PUTTY TO 2 1/4 TO 3 TIMES THE SUM OF THE CEMENT PLUS LIME PUTTY PARTS OF SAND.
3. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL BE MIXED IN PROPORTIONS OF 1 PART PORTLAND CEMENT TO 1/10 PART LIME PUTTY TO 2 TO 3 PARTS SAND TO A MAXIMUM OF 2 PARTS GRAVEL. GROUT TO HAVE "SILKAGROUT AID NO. 2" ADMIX PROPERLY ADDED TO MIX AT JOB SITE PER MANUFACTURER'S RECOMMENDATIONS, TO INCREASE BOND BETWEEN MASONRY UNITS AND GROUT COLUMNS.
4. AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C-144 (MORTAR) AND C-404 (GROUT).
5. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE 1 OR 2 LOW ALKALI.
6. ALL CONCRETE BLOCK SHALL CONFORM TO ASTM C90, GRADE N-1.
7. ALL BRICK SHALL CONFORM TO ASTM C62, GRADE MW.
8. ALL REINFORCEMENT, BOLTS, ETC. SHALL HAVE A MINIMUM GROUT COVERAGE OF 3/4". ALL BRICK SHALL HAVE A MINIMUM OF 2 1/2" GROUT SPACE.
9. SEE THE ARCHITECTURAL DRAWINGS FOR TYPE OF UNITS, LAYING PATTERN, AND JOINT DETAILS. UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL CONCRETE BLOCK AND BRICK SHALL BE LAID IN RUNNING BOND.

ABREVIATIONS

AB	ANCHOR BOLT	FDN	FOUNDATION	MECH	MECHANICAL
ABV	ABOVE	FF	FINISHED FLOOR	MFGR	MANUFACTURER
ADDL	ADDITIONAL	FH	FULL HEIGHT	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	FJ	FLOOR JOIST	MISC	MISCELLANEOUS
APA	AMERICAN PLYWOOD ASSOCIATION	FN	FIELD NAILING	MTL	METAL
ARCH	ARCHITECTURAL	FOC	FACE OF CONCRETE		
		FOM	FACE OF MASONRY	(N)	NEW
B/	BOTTOM OF	FOS	FACE OF STUD	NIC	NOT IN CONTRACT
BLKG	BLOCKING	FS	FAR SIDE	NO	NUMBER
BM	BEAM	FTG	FOOTING	NS	NEAR SIDE
BN	BOUNDARY NAIL			NTS	NOT TO SCALE
BOTT	BOTTOM	GA	GAUGE		
BRG	BEARING	GALV	GALVENIZED	OC	ON CENTER
BTWN	BETWEEN	GB	GYPSUM BEAM	OD	OUTSIDE DIAMETER
BVL	BEVEL	GIR	GIRDER	OF	OUTSIDE FACE
		GLB	GLUED LAMINATED BEAM	OH	OPPOSITE HAND
CJ	CEILING JOISTS	GRD	GRADE	OPNG	OPENING
CL	CENTER LINE	GYP BD	GYPSUM BOARD	OPP	OPPOSITE
CLR	CLEAR			ORIG	ORIGINAL
COL	COLUMN	H	HORIZONTAL	OSB	ORIENTED STRAND BOARD
CONC	CONCRETE	HA	HEADED ANCHOR		
CONN	CONNECTION	HD	HOLD DOWN	PC	PIPE COLUMN
CONST	CONSTRUCTION	HDR	HEADER	PIL	PILASTER
CONT	CONTINUOUS	HGHT	HEIGHT	PLCS	PLACES
CRPL	CRIPPLE	HGR	HANGER	PLT	PLATE
		HP	HIGH POINT	PLYWD	PLYWOOD
DBL	DOUBLE			PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	I JST	I-JOIST	PSI	POUNDS PER SQUARE INCH
DF	DOUGLAS FIR/LARCH	ID	INSIDE DIAMETER	PSL	PARALLEL STRAND LUMBER
DIA	DIAMETER	IF	INSIDE FACE	PT	PRESERVATIVE TREATED
DIAG	DIAGONAL	INFO	INFORMATION	PW	PLATE WASHER
DIM	DIMENSION	INT	INTERIOR		
DO	DITTO (REPEAT)			R	RADIUS
DP	DEEP	JST	JOIST	REF	REFERENCE
DWGS	DRAWINGS	JT	JOINT	REINF	REINFORCEMENT
DWL	DOWEL			REQ	REQUIRED
DWN	DOWN	KP	KING POST	REQ'D	REQUIRED
				RF	ROOF
EA	EACH	LB	POUND	RR	ROOF RAFTERS
EF	EACH FACE	LDGR	LEDGER		
EJ	EXPANSION JOINT	LG	LONG	SCHED	SCHEDULE
EL	ELEVATION	LLH	LONG LEG HORIZONTAL	SECT	SECTION
ELEC	ELECTRICAL	LLV	LONG LEG VERTICAL	SEP	SEPARATION
EMBED	EMBEDMENT	LP	LOW POINT	SHTG	SHEATHING
EN	EDGE NAILING	LT WT	LIGHT WEIGHT		
EQ	EQUAL OR EQUIVALENT	LVL	LAMINATED VENEER LUMBER		
ES	EACH SIDE	(LO)	LOW		
EW	EACH WAY				
EXIST(E)	EXISTING	MATL	MATERIAL		
EXP	EXPANSION	MAX	MAXIMUM		
EXT	EXTERIOR	MB	MACHINE BOLT		

SIM	SIMILAR		
SIMP	SIMPSON		
SJ	STEEL JOIST		
SJG	STEEL JOIST GIRDER		
SLH	SHORT LEG HORIZONTAL		
SN	SHEAR NAIL		
SP	SPLICE POINT		
SPA.	SPACE (SPACING)		
SPECS	SPECIFICATIONS		
SPN	SILL PLATE NAILING		
SQ	SQUARE		
ST	STUD		
STD	STANDARD		
STGR	STAGGER		
STIFF	STIFFENER		
STL	STEEL		
STRG	STRONG		
STRUC	STRUCTURAL		
SW	SHEAR WALL		
T&B	TOP & BOTTOM		
T&G	TONGUE & GROOVE		
T/	TOP OF		
THK	THICKNESS		
THRU	THROUGH		
TOS	TOP OF STEEL		
TPL	TRIPLE		
TRANS	TRANSVERSE		
TRM	TRIMMER		
TS	TUBE STEEL		
TYP	TYPICAL		
UNO, UN, UON: UNLESS OTHERWISE NOTED			
VERT	VERTICAL		
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WF	WIDE FLANGE		
WJ	WALL JOINT		
WP	WORKING POINT		
WWF	WELDED WIRE FABRIC		
X	EXTRA		

SPECIAL INSPECTIONS

1. ALL INSPECTION AND TESTS SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY RETAINED BY THE OWNER. THE SPECIAL DEPUTY INSPECTOR SHALL BE QUALIFIED, APPROVED BY THE BUILDING DEPARTMENT AND ACCEPTABLE TO THE ARCHITECT.
2. COPIES OF ALL TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER, ARCHITECT, BUILDING DEPARTMENT AND BE AVAILABLE AT THE JOB SITE.
3. FINAL REPORTS FOR ALL INSPECTIONS AND TESTING MUST BE PROVIDED, FINAL REPORTS SHALL DOCUMENT COMPLETION OF ALL INSPECTIONS AND CORRECTION OF ALL NOTED DISCREPANCIES.
4. THE DUTIES OF SPECIAL INSPECTOR SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF SECTION 17 OF THE CALIFORNIA BUILDING CODE.
5. PREMATURE NOTIFICATION OF ANY INSPECTION SHALL RESULT IN ADDITIONAL VISITS WITH ALL EXPENSES PAID BY THE CONTRACTOR.
6. FAILURE OF NOTIFICATION BY THE CONTRACTOR FOR INSPECTION ON A TIMELY BASIS MAY RESULT IN COMPLETE REMOVAL AND REPLACEMENT OF ALL WORK PERFORMED AT CONTRACTOR'S EXPENSE.
7. SPECIAL INSPECTION REQUIRED FOR:

ITEM	REQUIRED YES	REQUIRED NO	REQUIRED BY
CONCRETE OVER 2500 PSI AT 28 DAYS	☒	☐	CBC
CONCRETE PLACEMENT AT SLAB-ON-GRADE	☒	☐	CBC
WRITTEN CERTIFICATION FOR PROPER PLACEMENT OF REINFORCEMENT AT SLAB-ON-GRADE	☒	☐	STRUCTURAL
STRUCTURAL MASONRY	☒	☐	CBC
REINFORCING PLACEMENT	☒	☐	STRUCTURAL
VERIFICATION OF MILL REPORT AND IDENTIFICATION OF STEEL AT JOB SITE	☐	☐	STRUCTURAL
ALL FIELD WELDING	☐	☐	CBC
HIGH-STRENGTH BOLTING	☐	☐	CBC
ADHESIVE BOLTS IN CONCRETE OR MASONRY	☒	☐	MFGR. SPEC.
ANCHOR BOLT INSTALLATION AND PLACEMENT IN CONCRETE	☒	☐	CBC
ROOF PLYWOOD SHEATHING NAILING	☐	☐	CBC
PLYWOOD SHEAR WALL NAILING, HOLDOWNS, & ANCHOR BOLTS	☐	☐	CBC

8. FIELD SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN INSPECTION.
9. SPECIAL INSPECTION OF HIGH-STRENGTH A325 AND A490 BOLTS SHALL BE IN ACCORDANCE WITH APPROVED NATIONALLY RECOGNIZED STANDARDS AND REQUIREMENTS OF SECTION 1701.

SOILS		FREQUENCY	REFERENCED STANDARD
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT AND CBC TABLE 1705.6
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	

POST INSTALLED ANCHORS		FREQUENCY	REFERENCED STANDARD
1.	INSPECT EPOXY ANCHORS AND EXPANSION ANCHORS INSTALLED IN HARDENED CONCRETE OR MASONRY	CONTINUOUS	PRODUCT ICC-ES REPORT

CONCRETE		FREQUENCY	REFERENCED STANDARD
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318: CH. 20, 25.2, 25.3, 26.5.1 - 26.5.3, IBC: 1908.4
2.	REINFORCING BAR WELDING:		AWS: D1.4 ACI 318: 26.5.4
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	PERIODIC	
	B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC	
	C. INSPECT ALL OTHER WELDS.	CONTINUOUS	
3.	INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 17.8.2
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		ACI 318: 17.8.2.4, 17.8.2
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	PERIODIC	
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4 IBC: 1904.1, 1904.2, 1908.2, 1908.3
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM: C172, C31 ACI 318: 26.4.5, 26.12 IBC: 1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.4.5 IBC: 1908.6, 1908.7, 1908.8
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.4.7 - 26.4.9 IBC: 1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR:		ACI 318: 26.9.2.1, 26.9.2.3
	A. APPLICATION OF PRESTRESSING FORCES.	CONTINUOUS	
	B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS	
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.10.2
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.10.1(b)

MASONRY		FREQUENCY	REFERENCED STANDARD: ACI 530/ ASCE 5/ TMS 402	REFERENCED STANDARD: ACI 530.1/ ASCE 6/ TMS 602
1.	VERIFICATION REQUIREMENTS			
	A. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	PERIODIC	---	ART. 1.5
	B. PRIOR TO CONSTRUCTION, VERIFICATION OF f'_m AND f_{AAC}, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		---	ART. 1.4 B
	C. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATIONG GROUT IS DELIVERED TO THE PROJECT SITE.		---	ART. 1.5 & 1.6.3
	D. DURING CONSTRUCTION, VERIFICATION OF f'_m AND f_{AAC} FOR EVERY 5,000 sq. ft. (465 sq.m)		---	ART. 1.4 B
	E. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.		---	ART. 1.4 B
2.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
	A. PROPORTIONS OF SITE-PREPARED MORTAR.	CONTINUOUS	---	ART. 2.1, 2.6 A, & 2.6 C
	B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		---	ART. 2.4 B & 2.4 H
	C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.		---	ART. 3.4 & 3.6 A
	D. PRESTRESSING TECHNIQUE.		---	ART. 3.6 B
	E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	PERIODIC	---	ART. 2.1 C.1
	F. SAMPLE PANEL CONSTRUCTION.		---	ART. 1.6 D
3.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
	A. GROUT SPACE.	CONTINUOUS	---	ART. 3.2 D & 3.2 F
	B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES.	PERIODIC	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
	C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	CONTINUOUS	SEC. 6.1, 6.3.1, & 6.3.7	ART. 3.2 E & 3.4
	D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	PERIODIC	---	ART. 2.6 B & 2.4 G.1.b
4.	VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
	A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS.	PERIODIC	---	ART. 1.5
	B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.		---	ART. 3.3 B
	C. SIZE AND LOCATION OF STRUCTURAL MEMBERS.		---	ART. 3.3 F
	D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	CONTINUOUS	SEC. 1.2.1 (E), 6.2.1, & 6.3.1	
	E. WELDING OF REINFORCEMENT.		SEC. 6.1.6.1.2	
	F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F (4.4° C) OR HOT WEATHER (TEMPERATURE ABOVE 90° F (32.2° C).	PERIODIC	---	ART. 1.8 C & 1.8 D
	G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	CONTINUOUS	---	ART. 3.6 B
	H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.		---	ART. 3.5 & 3.6 C
	I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.		---	ART. 3.3 B.9 & 3.3 F.1.b
5.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	CONTINUOUS	---	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

EXCEPTION:
SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:

1. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH f'_c NOT GREATER THAN 2,500 POUNDS PER SQUARE INCH (psi) (17.2 Mpa) REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN CONSTRUCTION DOCUMENTS OR USED IN FOOTING CONSTRUCTION.
2. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:
   2.1. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION,
   2.2. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7,
   2.3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH f'_c NOT MORE THAN 2,500 POUNDS PER SQUARE INCH (psi) (17.2 MPa), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENT OR USED IN THE FOOTING CONSTRUCTION.
3. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 psi (1.03 MPa).
4. CONCRETE PATIOS AND SIDEWALKS, ON GRADE.

ENGTEGRITY
SOMETHING YOU CAN BUILD ON
24981 VALLEY RIM TERRACE
LAKE FOREST, CA 92630
949-278-4328

REVISIONS DATE
1 XXX XX/XX/XX
2
3
4
5
6

PROPOSED PROJECT:
MR. C'S TOWING

PROJECT ADDRESS:
9313 RAYO AVENUE
SOUTH GATE, CA 90280

SHEET INFORMATION

GENERAL NOTES



JOB INFORMATION
JOB NUMBER: _____
DRAWN BY: _____
DATE: _____

SHEET NUMBER
S1

FOUNDATION NOTES:

1. SEE "SD" SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS. ALL DETAILS DESIGNATED AS "TYPICAL" SHALL APPLY TO ALL SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

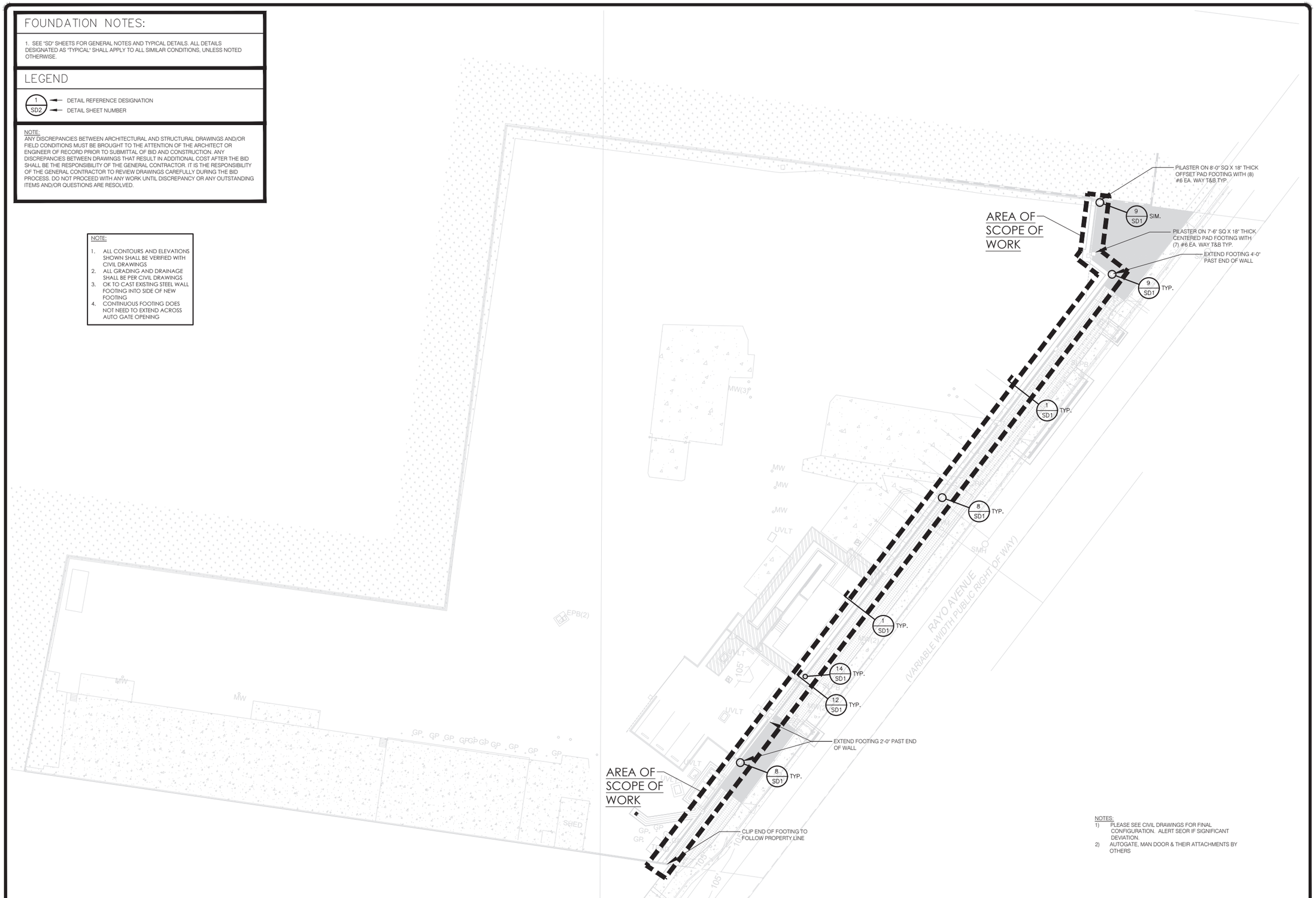
LEGEND

1/SD2 — DETAIL REFERENCE DESIGNATION / DETAIL SHEET NUMBER

NOTE:
ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS AND/OR FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO SUBMITTAL OF BID AND CONSTRUCTION. ANY DISCREPANCIES BETWEEN DRAWINGS THAT RESULT IN ADDITIONAL COST AFTER THE BID SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW DRAWINGS CAREFULLY DURING THE BID PROCESS. DO NOT PROCEED WITH ANY WORK UNTIL DISCREPANCY OR ANY OUTSTANDING ITEMS AND/OR QUESTIONS ARE RESOLVED.

NOTE:

1. ALL CONTOURS AND ELEVATIONS SHOWN SHALL BE VERIFIED WITH CIVIL DRAWINGS
2. ALL GRADING AND DRAINAGE SHALL BE PER CIVIL DRAWINGS
3. OK TO CAST EXISTING STEEL WALL FOOTING INTO SIDE OF NEW FOOTING
4. CONTINUOUS FOOTING DOES NOT NEED TO EXTEND ACROSS AUTO GATE OPENING



NOTES:
1) PLEASE SEE CIVIL DRAWINGS FOR FINAL CONFIGURATION. ALERT SEOR IF SIGNIFICANT DEVIATION.
2) AUTOGATE, MAN DOOR & THEIR ATTACHMENTS BY OTHERS

FOUNDATION PLAN

SCALE: 1"=20'-0"

NORTH

ENGTEGRITY
SOMETHING YOU CAN BUILD ON
24981 VALLEY RIM TERRACE
LAKE FOREST, CA 92630
949-278-4328

REVISIONS	DATE
1 XXX	XX/XX/XX
2	
3	
4	
5	
6	

PROPOSED PROJECT:
MR. C'S TOWING

PROJECT ADDRESS:
9313 RAYO AVENUE
SOUTH GATE, CA 90280

SHEET INFORMATION

FOUNDATION PLAN

MICHAEL E. O'BRIEN — No. S6044 — EXP. 12/31/2026 — STRUCTURAL — STATE OF CALIFORNIA

JOB INFORMATION

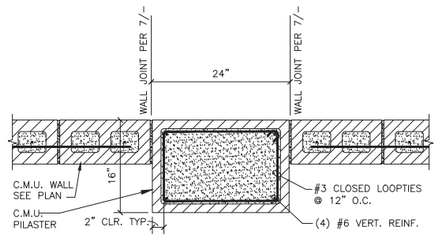
JOB NUMBER:

DRAWN BY:

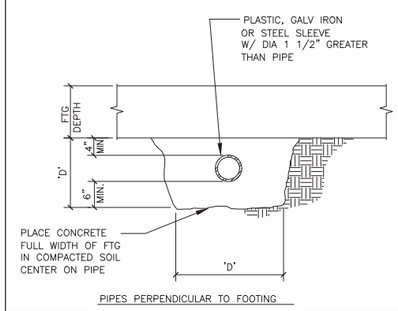
DATE:

SHEET NUMBER

S2

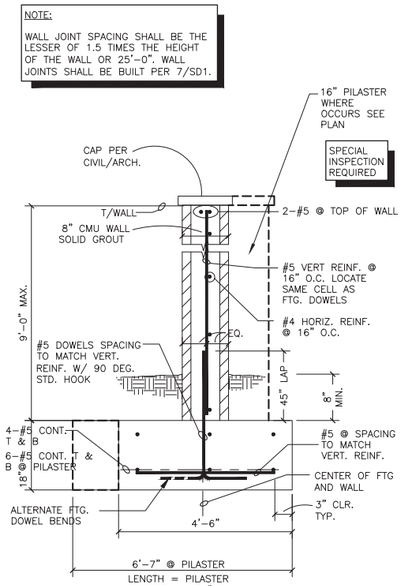


13 | 11 MASONRY PILASTER (MAS062EC) SCALE: 1"=1'– 0" | 8

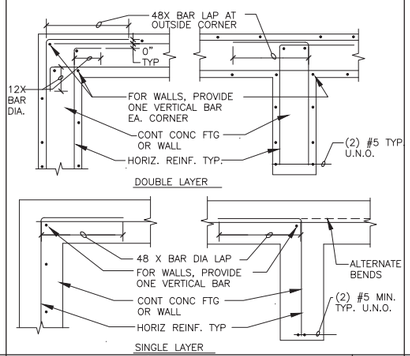


PIPES PERPENDICULAR TO FOOTING

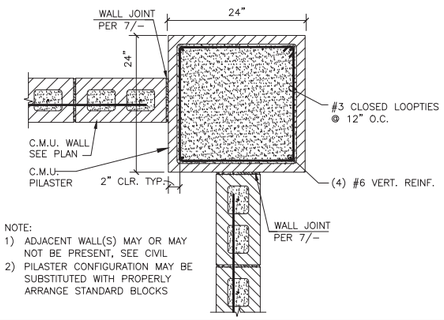
TYP. PIPES BLW. FOOTING (FN004D) SCALE: 3/4"=1'– 0" | 4



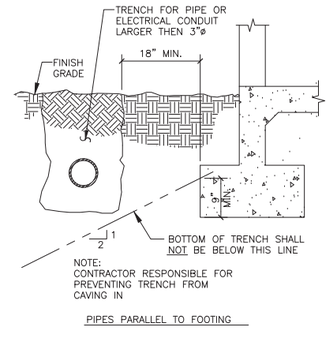
FREESTANDING WALL SCALE: 3/4"=1'– 0" | 1



14 | TYP. WALL/FTG INTERSECTION (FN227D) SCALE: 3/4"=1'– 0" | 12



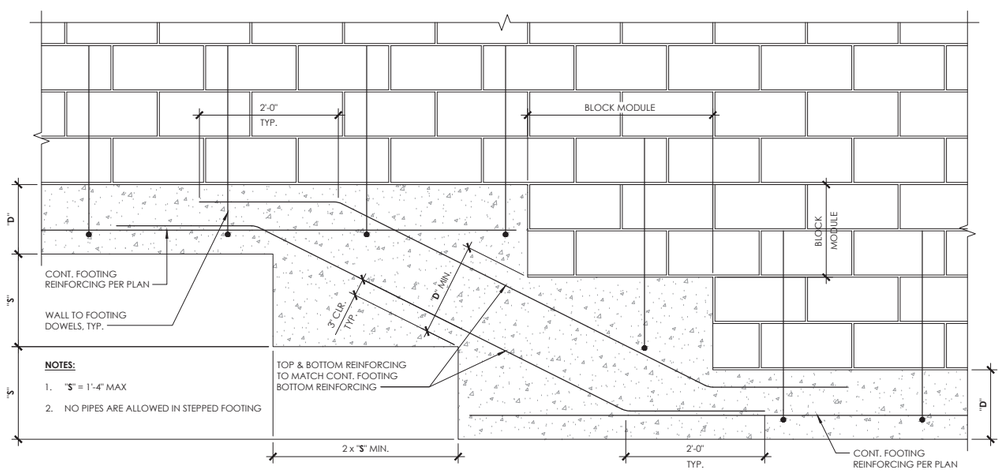
MASONRY PILASTER (MAS062EC) SCALE: 1"=1'– 0" | 9



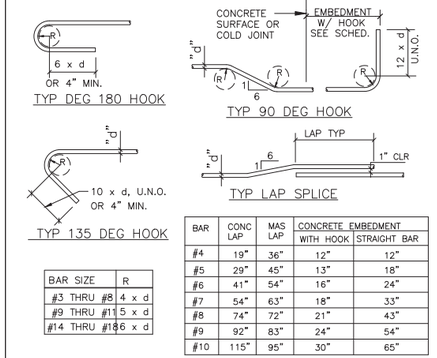
PIPES PARALLEL TO FOOTING

TYP. PIPES AT FOOTINGS (FN324D) SCALE: 3/4"=1'– 0" | 5

NOTE:
IF EXPANSION JOINT IS REQUIRED IN VICINITY, TRY TO ALIGN WITH TOP CONCRETE STEP



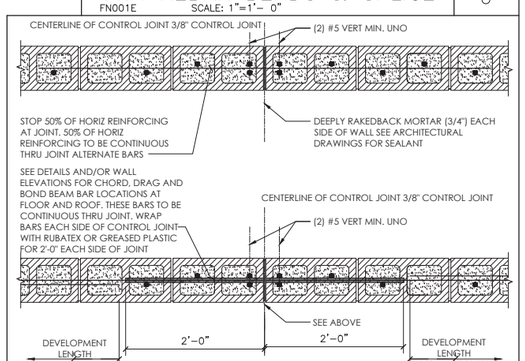
TYP. CMU WALL STEPPED FOOTING (FN003E) SCALE: 1"=1'–0" | 10



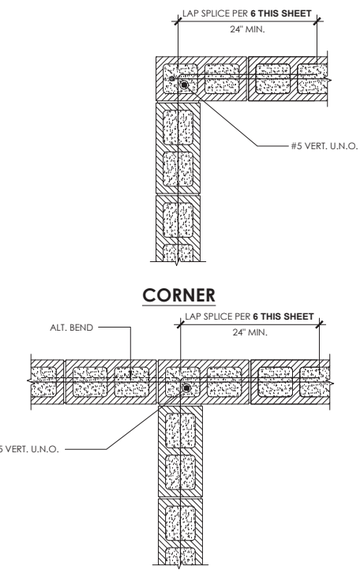
BAR SIZE	R
#3 THRU #8	4 x d
#9 THRU #11	5 x d
#14 THRU #18	6 x d

BAR	CONC LAP	MAS LAP	CONCRETE EMBEDMENT WITH HOOK	CONCRETE EMBEDMENT STRAIGHT BAR
#4	19"	36"	12"	12"
#5	29"	45"	13"	18"
#6	41"	54"	16"	24"
#7	54"	63"	18"	33"
#8	74"	72"	21"	43"
#9	92"	83"	24"	54"
#10	115"	95"	30"	65"

TYP. REBAR BENDS & SPLICE (FN001E) SCALE: 1"=1'– 0" | 6



TYP. MASONRY WALL JOINT (FN001E) SCALE: 1"=1'– 0" | 7



WALL INTERSECTIONS SCALE: 3/4"=1'– 0" | 3

PROPOSED PROJECT:
MR. C'S TOWING

PROJECT ADDRESS:
9313 RAYO AVENUE
SOUTH GATE, CA 90280

ENGTEGRITY
SOMETHING YOU CAN BUILD ON
24981 VALLEY RIM TERRACE
LAKE FOREST, CA 92630
949-278-4328

REVISIONS	DATE
1 XXX	XX/XX/XX
2	
3	
4	
5	
6	

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. O'BRIEN
S004465
EXP. 12/31/2026
STRUCTURAL
STATE OF CALIFORNIA

JOB INFORMATION
JOB NUMBER:
DRAWN BY:
DATE:

SHEET INFORMATION
DETAILS

SHEET NUMBER
SD1

APPENDIX B

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Matt Hillman
Jacob & Hefner Associates P.C.
15375 Barranca Parkway, J-101
Irvine, California 92618

Generated 1/20/2026 1:34:51 PM

JOB DESCRIPTION

Mr.C's Towing - SouthGate / Cooper Drum

JOB NUMBER

570-262282-1

Eurofins Calscience
2841 Dow Avenue
Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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1/20/2026 1:34:51 PM

Authorized for release by
Terri Chang, Project Manager I
Terri.Chang@et.eurofinsus.com
(657)210-6295

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Definitions/Glossary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-262282-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 1/7/2026 3:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC/MS VOA
Method 8260D: The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 570-679931: Vinyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-679931. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260D: The minimum response factor (RF) criteria for the initial calibration (ICAL) analyzed in batch 570-679931 was outside criteria for the following analyte(s): Acetone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 570-679931 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:SB1-2 (570-262282-1), SB1-3 (570-262282-2), SB2-2 (570-262282-3), SB2-3 (570-262282-4), SB3-2 (570-262282-5), SB3-3 (570-262282-6), SB4-2 (570-262282-7), SB4-3 (570-262282-8), SB5-2 (570-262282-9), SB5-3 (570-262282-10), SB6-2 (570-262282-11), SB6-3 (570-262282-12), SB7-2 (570-262282-13), SB7-3 (570-262282-14), SB8-2 (570-262282-15), SB8-3 (570-262282-16) and (CCVIS 570-679931/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The sample PCB 1254 result was over the calibration range on one column due to the peak interferences. Results are confirmed on both columns and reported from the low results column. The associated sample is: SB5-2 (570-262282-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-679928 and analytical batch 570-681485 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Matt Hillman
Jacob & Hefner Associates P.C.
15375 Barranca Parkway, J-101
Irvine, California 92618

Generated 1/23/2026 3:33:14 PM

JOB DESCRIPTION

Mr.C's Towing - SouthGate / Cooper Drum

JOB NUMBER

570-262282-2

Eurofins Calscience
2841 Dow Avenue
Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Terri Chang, Project Manager I
Terri.Chang@et.eurofinsus.com
(657)210-6295

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Definitions/Glossary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-262282-2 Eurofins Calscience

Job Narrative
570-262282-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 1/7/2026 3:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB5-2
Lab Sample ID: 570-262282-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.22		1.00	0.0894	mg/L	1		6010D	STLC Citrate

Client Sample ID: SB8-3
Lab Sample ID: 570-262282-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.33		1.00	0.0894	mg/L	1		6010D	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: SW846 6010D - Metals (ICP) - TCLP

Client Sample ID: SB5-2
Lab Sample ID: 570-262282-9
Date Collected: 01/07/26 12:42
Matrix: Solid
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500	0.0447	mg/L		01/22/26 08:17	01/22/26 20:05	1

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: SW846 6010D - Metals (ICP) - STLC Citrate

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.22		1.00	0.0894	mg/L		01/23/26 12:45	01/23/26 14:04	1

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.33		1.00	0.0894	mg/L		01/23/26 12:45	01/23/26 14:06	1

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 570-686235/1-A
Matrix: Solid
Analysis Batch: 686293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686235

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.00	0.0894	mg/L		01/23/26 12:45	01/23/26 13:49	1

Lab Sample ID: LCS 570-686235/2-A
Matrix: Solid
Analysis Batch: 686293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			20.0	19.25		mg/L		96	80 - 120		

Lab Sample ID: LCSD 570-686235/3-A
Matrix: Solid
Analysis Batch: 686293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 686235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead			20.0	18.83		mg/L		94	80 - 120	2	20

Lab Sample ID: LB 570-684976/1-B
Matrix: Solid
Analysis Batch: 685916

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 685502

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500	0.0447	mg/L		01/22/26 08:17	01/22/26 19:43	1

Lab Sample ID: LCS 570-684976/2-B
Matrix: Solid
Analysis Batch: 685916

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 685502

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			10.0	10.08		mg/L		101	80 - 120		

Lab Sample ID: LCSD 570-684976/3-B
Matrix: Solid
Analysis Batch: 685916

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 685502

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead			10.0	10.25		mg/L		103	80 - 120	2	20

QC Association Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Metals

Leach Batch: 684975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	STLC Citrate	Solid	CA WET Citrate	
570-262282-16	SB8-3	STLC Citrate	Solid	CA WET Citrate	

Leach Batch: 684976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	TCLP	Solid	1311	
LB 570-684976/1-B	Method Blank	TCLP	Solid	1311	
LCS 570-684976/2-B	Lab Control Sample	TCLP	Solid	1311	
LCSD 570-684976/3-B	Lab Control Sample Dup	TCLP	Solid	1311	

Prep Batch: 685502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	TCLP	Solid	3010A	684976
LB 570-684976/1-B	Method Blank	TCLP	Solid	3010A	684976
LCS 570-684976/2-B	Lab Control Sample	TCLP	Solid	3010A	684976
LCSD 570-684976/3-B	Lab Control Sample Dup	TCLP	Solid	3010A	684976

Analysis Batch: 685916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	TCLP	Solid	6010D	685502
LB 570-684976/1-B	Method Blank	TCLP	Solid	6010D	685502
LCS 570-684976/2-B	Lab Control Sample	TCLP	Solid	6010D	685502
LCSD 570-684976/3-B	Lab Control Sample Dup	TCLP	Solid	6010D	685502

Prep Batch: 686235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	STLC Citrate	Solid	Dilution	684975
570-262282-16	SB8-3	STLC Citrate	Solid	Dilution	684975
LB 570-686235/1-A	Method Blank	Total/NA	Solid	Dilution	
LCS 570-686235/2-A	Lab Control Sample	Total/NA	Solid	Dilution	
LCSD 570-686235/3-A	Lab Control Sample Dup	Total/NA	Solid	Dilution	

Analysis Batch: 686293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	STLC Citrate	Solid	6010D	686235
570-262282-16	SB8-3	STLC Citrate	Solid	6010D	686235
LB 570-686235/1-A	Method Blank	Total/NA	Solid	6010D	686235
LCS 570-686235/2-A	Lab Control Sample	Total/NA	Solid	6010D	686235
LCSD 570-686235/3-A	Lab Control Sample Dup	Total/NA	Solid	6010D	686235

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB5-2
Lab Sample ID: 570-262282-9
Date Collected: 01/07/26 12:42
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.06 g	500 mL	684975	01/21/26 08:17	D2TZ	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 mL	10 mL	686235	01/23/26 12:45	3JBI	EET CAL 4
STLC Citrate	Analysis	6010D		1			686293	01/23/26 14:04	K1UV	EET CAL 4
	Instrument ID: ICP12									
TCLP	Leach	1311			100.06 g	2000 mL	684976	01/21/26 08:23	D2TZ	EET CAL 4
TCLP	Prep	3010A			5 mL	50 mL	685502	01/22/26 08:17	D2TZ	EET CAL 4
TCLP	Analysis	6010D		1			685916	01/22/26 20:05	P1R	EET CAL 4
	Instrument ID: ICP12									

Client Sample ID: SB8-3
Lab Sample ID: 570-262282-16
Date Collected: 01/07/26 14:00
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.16 g	500 mL	684975	01/21/26 08:17	D2TZ	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 mL	10 mL	686235	01/23/26 12:45	3JBI	EET CAL 4
STLC Citrate	Analysis	6010D		1			686293	01/23/26 14:06	K1UV	EET CAL 4
	Instrument ID: ICP12									

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-2

Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CAL 4
1311	TCLP Extraction	SW846	EET CAL 4
3010A	Preparation, Total Metals	SW846	EET CAL 4
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	EET CAL 4
Dilution	Preparation / Dilution Process	None	EET CAL 4

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-2
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-262282-9	SB5-2	Solid	01/07/26 12:42	01/07/26 15:56	California
570-262282-16	SB8-3	Solid	01/07/26 14:00	01/07/26 15:56	California

Eurofins Calscience LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: D. Ortiz	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No: JHA-01072026-Rayo
Client Contact: Matt Hillman	Phone: 714-392-5970	E-Mail: Terri.Chang@ET.EurofinsUS.com		Page: Page 1 of 1
Company: JHA Environmental, Inc				Job #:

Address: 15375 Barranca Parkway, #J-101	Due Date Requested:
City: Irvine	TAT Requested (days): All tests are normal TAT (10 days)
State, Zip: CA, 92618	
Phone: 714-392-5970 (Cell)	PO #: H722-1L-800
Email: mhillman@jhainc.com	WO #:
Project Name: Mr.C's Towing - SouthGate	Project #: E928f
Site: Cooper Drum	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other: Sodium Bisulfate NaHSO3, Methanol

Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Low Level	TPH- CC	Title 22 Metals	PCB's	Total Number of containers	Special Instructions/Note:
				Preservation Code:				Z	N	N	N		4
SB1-2	1	1/7/2026	1034	G	Solid			X	X	X	X	4	
SB1-3	2	1/7/2026	1042	G	Solid			X	X	X	X	1	
SB2-2	3	1/7/2026	1116	G	Solid			X	X	X	X		
SB2-3	4	1/7/2026	1125	G	Solid			X	X	X	X		
SB3-2	5	1/7/2026	1144	G	Solid			X	X	X	X		
SB3-3	6	1/7/2026	1152	G	Solid			X	X	X	X		
SB4-2	7	1/7/2026	1219	G	Solid			X	X	X	X		
SB4-3	8	1/7/2026	1223	G	Solid			X	X	X	X		
SB5-2	9	1/7/2026	1242	G	Solid			X	X	X	X		
SB5-3	10	1/7/2026	1253	G	Solid			X	X	X	X		
SB6-2	11	1/7/2026	1310	G	Solid			X	X	X	X		
SB6-3	12	1/7/2026	1316	G	Solid			X	X	X	X		
SB7-2	13	1/7/2026	1327	G	Solid			X	X	X	X		
SB7-3	14	1/7/2026	1330	G	Solid			X	X	X	X		
SB8-2	15	1/7/2026	1357	G	Solid			X	X	X	X		
SB8-3	16	1/7/2026	1400	G	Solid			X	X	X	X	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: ** Analyze TPH-cc sample IF O&G detected.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		01/07/2026 1556	JHA		01/07/2026 1556	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.5/5.6 IR5

QFG3

Terri Chang

From: Matt Hillman <mhillman@jhainc.com>
Sent: Tuesday, January 20, 2026 2:52 PM
To: Terri Chang
Subject: RE: Eurofins Calscience report and EDD deliverables for job 570-262282-1 Mr.C's Towing - SouthGate / Cooper Drum

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Terri,

Is it too late to request the following additional testing on a couple of the samples?

Sample ID SB5-2 – STLC & TCLP Lead

Sample IS SB8-3 – STLC Lead

Thanks,

Matthew Hillman, MCSE, MCDBA
Principal
JHA Environmental, Inc.
15375 Barranca Parkway, Suite #J-101
Irvine, CA 92618
Office: 949.453.1045
Fax: 949.453.1047
Mobile: 714.392.5970
Email: mhillman@jhainc.com

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Login Sample Receipt Checklist

Client: Jacob & Hefner Associates P.C.

Job Number: 570-262282-2

Login Number: 262282

List Source: Eurofins Calscience

List Number: 1

Creator: Judkins, Julianne

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Job ID: 570-262282-1 (Continued) Eurofins Calscience

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-680707 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB1-2
Lab Sample ID: 570-262282-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J	22	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	4.6		1.1	0.28	ug/Kg	1	☼	8260D	Total/NA
Chlorobenzene	0.47	J	1.1	0.29	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	5.6	J	22	3.3	ug/Kg	1	☼	8260D	Total/NA
Toluene	1.7		1.1	0.29	ug/Kg	1	☼	8260D	Total/NA
Barium	94.9	F2 F1	2.23	1.56	mg/Kg	2	☼	6010D	Total/NA
Chromium	10.7		1.12	0.832	mg/Kg	2	☼	6010D	Total/NA
Cobalt	5.94		2.23	1.16	mg/Kg	2	☼	6010D	Total/NA
Copper	8.27		2.23	1.52	mg/Kg	2	☼	6010D	Total/NA
Nickel	7.22		2.23	1.26	mg/Kg	2	☼	6010D	Total/NA
Vanadium	28.8		4.47	2.33	mg/Kg	2	☼	6010D	Total/NA
Zinc	37.0		4.47	3.92	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0586	J	0.101	0.0244	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB1-3
Lab Sample ID: 570-262282-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21	J	23	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.6		1.2	0.30	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	5.1	J	23	3.6	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.89	J	1.2	0.31	ug/Kg	1	☼	8260D	Total/NA
Arsenic	4.40		3.93	3.34	mg/Kg	2	☼	6010D	Total/NA
Barium	243		2.62	1.83	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.707		0.523	0.324	mg/Kg	2	☼	6010D	Total/NA
Chromium	29.6		1.31	0.975	mg/Kg	2	☼	6010D	Total/NA
Cobalt	15.9		2.62	1.35	mg/Kg	2	☼	6010D	Total/NA
Copper	39.1		2.62	1.78	mg/Kg	2	☼	6010D	Total/NA
Lead	7.67		2.62	2.09	mg/Kg	2	☼	6010D	Total/NA
Nickel	22.5		2.62	1.47	mg/Kg	2	☼	6010D	Total/NA
Vanadium	61.1		5.23	2.73	mg/Kg	2	☼	6010D	Total/NA
Zinc	86.7		5.23	4.59	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.126		0.109	0.0263	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB2-2
Lab Sample ID: 570-262282-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	22	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.4		1.1	0.28	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	6.6	J	22	3.4	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.77	J	1.1	0.30	ug/Kg	1	☼	8260D	Total/NA
Arsenic	3.85		3.48	2.96	mg/Kg	2	☼	6010D	Total/NA
Barium	161		2.32	1.62	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.395	J	0.464	0.288	mg/Kg	2	☼	6010D	Total/NA
Chromium	22.1		1.16	0.865	mg/Kg	2	☼	6010D	Total/NA
Cobalt	11.1		2.32	1.20	mg/Kg	2	☼	6010D	Total/NA
Copper	23.2		2.32	1.58	mg/Kg	2	☼	6010D	Total/NA
Lead	4.57		2.32	1.85	mg/Kg	2	☼	6010D	Total/NA
Nickel	15.5		2.32	1.31	mg/Kg	2	☼	6010D	Total/NA
Vanadium	48.6		4.64	2.42	mg/Kg	2	☼	6010D	Total/NA
Zinc	68.5		4.64	4.07	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0375	J	0.104	0.0251	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB2-3
Lab Sample ID: 570-262282-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	37	J	44	22	ug/Kg	1	☼	8260D	Total/NA
Benzene	5.0		2.2	0.57	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	12	J	44	6.7	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.1	J	2.2	0.59	ug/Kg	1	☼	8260D	Total/NA
Arsenic	3.08	J	3.45	2.93	mg/Kg	2	☼	6010D	Total/NA
Barium	208		2.30	1.60	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.436	J	0.459	0.285	mg/Kg	2	☼	6010D	Total/NA
Chromium	23.5		1.15	0.856	mg/Kg	2	☼	6010D	Total/NA
Cobalt	12.4		2.30	1.19	mg/Kg	2	☼	6010D	Total/NA
Copper	27.3		2.30	1.56	mg/Kg	2	☼	6010D	Total/NA
Lead	5.49		2.30	1.83	mg/Kg	2	☼	6010D	Total/NA
Nickel	16.9		2.30	1.29	mg/Kg	2	☼	6010D	Total/NA
Vanadium	55.4		4.59	2.39	mg/Kg	2	☼	6010D	Total/NA
Zinc	77.9		4.59	4.03	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0696	J	0.117	0.0284	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB3-2
Lab Sample ID: 570-262282-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		0.96	0.25	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	5.3	J	19	2.9	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.72	J	0.96	0.26	ug/Kg	1	☼	8260D	Total/NA
Barium	66.0		1.93	1.35	mg/Kg	2	☼	6010D	Total/NA
Chromium	7.72		0.965	0.719	mg/Kg	2	☼	6010D	Total/NA
Cobalt	4.73		1.93	0.998	mg/Kg	2	☼	6010D	Total/NA
Copper	12.0		1.93	1.31	mg/Kg	2	☼	6010D	Total/NA
Lead	9.49		1.93	1.54	mg/Kg	2	☼	6010D	Total/NA
Nickel	6.21		1.93	1.09	mg/Kg	2	☼	6010D	Total/NA
Vanadium	21.0		3.86	2.01	mg/Kg	2	☼	6010D	Total/NA
Zinc	37.7		3.86	3.38	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0257	J	0.0943	0.0228	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB3-3
Lab Sample ID: 570-262282-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.4	J	23	5.2	ug/Kg	1	☼	8260D	Total/NA
Acetone	38		23	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.9		1.1	0.30	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	11	J	23	3.5	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.92	J	1.1	0.31	ug/Kg	1	☼	8260D	Total/NA
C6-C44	12	J	33	5.8	mg/Kg	1	☼	8015C	Total/NA
Arsenic	4.46		4.01	3.41	mg/Kg	2	☼	6010D	Total/NA
Barium	187		2.67	1.86	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.427	J	0.534	0.331	mg/Kg	2	☼	6010D	Total/NA
Chromium	23.9		1.34	0.995	mg/Kg	2	☼	6010D	Total/NA
Cobalt	12.6		2.67	1.38	mg/Kg	2	☼	6010D	Total/NA
Copper	25.1		2.67	1.82	mg/Kg	2	☼	6010D	Total/NA
Lead	4.33		2.67	2.13	mg/Kg	2	☼	6010D	Total/NA
Nickel	17.2		2.67	1.50	mg/Kg	2	☼	6010D	Total/NA
Vanadium	52.4		5.34	2.78	mg/Kg	2	☼	6010D	Total/NA
Zinc	77.3		5.34	4.68	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0766	J	0.114	0.0275	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB4-2
Lab Sample ID: 570-262282-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	24	12	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.3		1.2	0.31	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	7.7	J	24	3.7	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.70	J	1.2	0.32	ug/Kg	1	☼	8260D	Total/NA
Arsenic	2.90	J	3.19	2.72	mg/Kg	2	☼	6010D	Total/NA
Barium	104		2.13	1.49	mg/Kg	2	☼	6010D	Total/NA
Chromium	13.2		1.06	0.793	mg/Kg	2	☼	6010D	Total/NA
Cobalt	7.31		2.13	1.10	mg/Kg	2	☼	6010D	Total/NA
Copper	12.1		2.13	1.45	mg/Kg	2	☼	6010D	Total/NA
Lead	2.32		2.13	1.70	mg/Kg	2	☼	6010D	Total/NA
Nickel	9.31		2.13	1.20	mg/Kg	2	☼	6010D	Total/NA
Vanadium	32.7		4.26	2.22	mg/Kg	2	☼	6010D	Total/NA
Zinc	46.5		4.26	3.73	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0435	J	0.0979	0.0237	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB4-3
Lab Sample ID: 570-262282-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	24	12	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.1	J	1.2	0.30	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	8.7	J	24	3.6	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.59	J	1.2	0.32	ug/Kg	1	☼	8260D	Total/NA
Barium	76.6		2.21	1.54	mg/Kg	2	☼	6010D	Total/NA
Chromium	9.75		1.10	0.822	mg/Kg	2	☼	6010D	Total/NA
Cobalt	5.07		2.21	1.14	mg/Kg	2	☼	6010D	Total/NA
Copper	7.79		2.21	1.50	mg/Kg	2	☼	6010D	Total/NA
Nickel	6.16		2.21	1.24	mg/Kg	2	☼	6010D	Total/NA
Vanadium	26.0		4.41	2.30	mg/Kg	2	☼	6010D	Total/NA
Zinc	32.6		4.41	3.87	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0264	J	0.0868	0.0210	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB5-2
Lab Sample ID: 570-262282-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.4	J	25	5.7	ug/Kg	1	☼	8260D	Total/NA
Acetone	51		25	12	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.0		1.3	0.33	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	15	J	25	3.9	ug/Kg	1	☼	8260D	Total/NA
Toluene	1.0	J	1.3	0.34	ug/Kg	1	☼	8260D	Total/NA
C6-C44	11	J	30	5.2	mg/Kg	1	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	5.9		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
Aroclor-1254	750	p	60	30	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	740		60	30	ug/Kg	1	☼	8082A	Total/NA
Arsenic	7.02		3.52	2.99	mg/Kg	2	☼	6010D	Total/NA
Barium	168		2.35	1.64	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.375	J	0.469	0.291	mg/Kg	2	☼	6010D	Total/NA
Cadmium	1.10		0.469	0.244	mg/Kg	2	☼	6010D	Total/NA
Chromium	37.8		1.17	0.874	mg/Kg	2	☼	6010D	Total/NA
Cobalt	18.5		2.35	1.21	mg/Kg	2	☼	6010D	Total/NA
Copper	39.8		2.35	1.60	mg/Kg	2	☼	6010D	Total/NA
Lead	122		2.35	1.87	mg/Kg	2	☼	6010D	Total/NA
Nickel	18.7		2.35	1.32	mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB5-2 (Continued)
Lab Sample ID: 570-262282-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	49.1		4.69	2.45	mg/Kg	2	☼	6010D	Total/NA
Zinc	301		4.69	4.12	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.503		0.0939	0.0227	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB5-3
Lab Sample ID: 570-262282-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	33		24	12	ug/Kg	1	☼	8260D	Total/NA
Benzene	4.6		1.2	0.30	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	11	J	24	3.6	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.59	J	1.2	0.26	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.0		1.2	0.32	ug/Kg	1	☼	8260D	Total/NA
Aroclor-1254	86		55	28	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	110		55	28	ug/Kg	1	☼	8082A	Total/NA
Barium	69.2		1.99	1.39	mg/Kg	2	☼	6010D	Total/NA
Chromium	10.2		0.996	0.742	mg/Kg	2	☼	6010D	Total/NA
Cobalt	4.98		1.99	1.03	mg/Kg	2	☼	6010D	Total/NA
Copper	7.63		1.99	1.35	mg/Kg	2	☼	6010D	Total/NA
Lead	2.23		1.99	1.59	mg/Kg	2	☼	6010D	Total/NA
Nickel	5.50		1.99	1.12	mg/Kg	2	☼	6010D	Total/NA
Vanadium	27.5		3.99	2.08	mg/Kg	2	☼	6010D	Total/NA
Zinc	34.6		3.99	3.49	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0869	J	0.0918	0.0222	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB6-2
Lab Sample ID: 570-262282-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	22	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.8		1.1	0.29	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	5.9	J	22	3.4	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	1.2		1.1	0.25	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.83	J	1.1	0.30	ug/Kg	1	☼	8260D	Total/NA
Trichloroethene	0.82	J	2.2	0.43	ug/Kg	1	☼	8260D	Total/NA
Barium	187		2.12	1.48	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.339	J	0.424	0.263	mg/Kg	2	☼	6010D	Total/NA
Chromium	22.7		1.06	0.790	mg/Kg	2	☼	6010D	Total/NA
Cobalt	12.7		2.12	1.10	mg/Kg	2	☼	6010D	Total/NA
Copper	19.7		2.12	1.44	mg/Kg	2	☼	6010D	Total/NA
Lead	3.84		2.12	1.69	mg/Kg	2	☼	6010D	Total/NA
Nickel	16.4		2.12	1.19	mg/Kg	2	☼	6010D	Total/NA
Vanadium	50.3		4.24	2.21	mg/Kg	2	☼	6010D	Total/NA
Zinc	75.4		4.24	3.72	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0544	J	0.0953	0.0231	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB6-3
Lab Sample ID: 570-262282-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	21	10	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.1		1.1	0.27	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	4.7	J	21	3.2	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.93	J	1.1	0.23	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.74	J	1.1	0.28	ug/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB6-3 (Continued)
Lab Sample ID: 570-262282-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.79	J	2.1	0.41	ug/Kg	1	☼	8260D	Total/NA
C23-C24	6.1		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
C25-C28	17		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
C29-C32	15		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
C33-C36	6.5		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
C6-C44	57		29	5.2	mg/Kg	1	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	30		5.9	5.2	mg/Kg	1	☼	8015C	Total/NA
Aroclor-1254	71		59	30	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	84		59	30	ug/Kg	1	☼	8082A	Total/NA
Arsenic	2.90	J	3.06	2.60	mg/Kg	2	☼	6010D	Total/NA
Barium	197		2.04	1.42	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.347	J	0.408	0.253	mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.367	J	0.408	0.212	mg/Kg	2	☼	6010D	Total/NA
Chromium	26.4		1.02	0.760	mg/Kg	2	☼	6010D	Total/NA
Cobalt	18.9		2.04	1.05	mg/Kg	2	☼	6010D	Total/NA
Copper	23.6		2.04	1.39	mg/Kg	2	☼	6010D	Total/NA
Lead	33.8		2.04	1.63	mg/Kg	2	☼	6010D	Total/NA
Nickel	15.5		2.04	1.15	mg/Kg	2	☼	6010D	Total/NA
Vanadium	45.4		4.08	2.13	mg/Kg	2	☼	6010D	Total/NA
Zinc	111		4.08	3.58	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.102		0.102	0.0247	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB7-2
Lab Sample ID: 570-262282-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20	J	23	11	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.0		1.1	0.29	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	6.1	J	23	3.5	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.74	J	1.1	0.30	ug/Kg	1	☼	8260D	Total/NA
Aroclor-1248	140	p	55	43	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1254	500		55	28	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	110		55	28	ug/Kg	1	☼	8082A	Total/NA
Arsenic	3.04	J	3.42	2.91	mg/Kg	2	☼	6010D	Total/NA
Barium	157		2.28	1.59	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.297	J	0.457	0.283	mg/Kg	2	☼	6010D	Total/NA
Chromium	21.4		1.14	0.850	mg/Kg	2	☼	6010D	Total/NA
Cobalt	10.6		2.28	1.18	mg/Kg	2	☼	6010D	Total/NA
Copper	23.2		2.28	1.55	mg/Kg	2	☼	6010D	Total/NA
Lead	10.5		2.28	1.82	mg/Kg	2	☼	6010D	Total/NA
Nickel	13.4		2.28	1.29	mg/Kg	2	☼	6010D	Total/NA
Vanadium	46.1		4.57	2.38	mg/Kg	2	☼	6010D	Total/NA
Zinc	66.1		4.57	4.00	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.166		0.0996	0.0241	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB7-3
Lab Sample ID: 570-262282-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J	26	13	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.4		1.3	0.34	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	7.9	J	26	4.0	ug/Kg	1	☼	8260D	Total/NA
Toluene	0.67	J	1.3	0.35	ug/Kg	1	☼	8260D	Total/NA
Aroclor-1248	53	J p	61	48	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB7-3 (Continued)
Lab Sample ID: 570-262282-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	150		61	31	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	61		61	31	ug/Kg	1	☼	8082A	Total/NA
Arsenic	2.94	J	3.22	2.74	mg/Kg	2	☼	6010D	Total/NA
Barium	153		2.14	1.50	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.407	J	0.429	0.266	mg/Kg	2	☼	6010D	Total/NA
Chromium	23.4		1.07	0.799	mg/Kg	2	☼	6010D	Total/NA
Cobalt	10.2		2.14	1.11	mg/Kg	2	☼	6010D	Total/NA
Copper	23.2		2.14	1.46	mg/Kg	2	☼	6010D	Total/NA
Lead	6.93		2.14	1.71	mg/Kg	2	☼	6010D	Total/NA
Nickel	14.9		2.14	1.21	mg/Kg	2	☼	6010D	Total/NA
Vanadium	48.1		4.29	2.24	mg/Kg	2	☼	6010D	Total/NA
Zinc	65.7		4.29	3.76	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0812	J	0.100	0.0242	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB8-2
Lab Sample ID: 570-262282-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.6	J	21	4.8	ug/Kg	1	☼	8260D	Total/NA
Acetone	26		21	10	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.7		1.1	0.27	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	5.2	J	21	3.2	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.24	J	1.1	0.24	ug/Kg	1	☼	8260D	Total/NA
Toluene	1.4		1.1	0.28	ug/Kg	1	☼	8260D	Total/NA
Aroclor-1254	45	J	65	33	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	33	J	65	33	ug/Kg	1	☼	8082A	Total/NA
Arsenic	5.96		3.58	3.04	mg/Kg	2	☼	6010D	Total/NA
Barium	165		2.38	1.66	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.405	J	0.477	0.296	mg/Kg	2	☼	6010D	Total/NA
Chromium	25.0		1.19	0.888	mg/Kg	2	☼	6010D	Total/NA
Cobalt	11.2		2.38	1.23	mg/Kg	2	☼	6010D	Total/NA
Copper	28.7		2.38	1.62	mg/Kg	2	☼	6010D	Total/NA
Lead	17.4		2.38	1.90	mg/Kg	2	☼	6010D	Total/NA
Nickel	17.0		2.38	1.34	mg/Kg	2	☼	6010D	Total/NA
Vanadium	50.7		4.77	2.49	mg/Kg	2	☼	6010D	Total/NA
Zinc	81.5		4.77	4.18	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0685	J	0.103	0.0248	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB8-3
Lab Sample ID: 570-262282-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20		19	9.5	ug/Kg	1	☼	8260D	Total/NA
Benzene	2.3		0.96	0.25	ug/Kg	1	☼	8260D	Total/NA
tert-Butyl alcohol (TBA)	3.9	J	19	3.0	ug/Kg	1	☼	8260D	Total/NA
Toluene	1.1		0.96	0.26	ug/Kg	1	☼	8260D	Total/NA
C25-C28	14		5.8	5.1	mg/Kg	1	☼	8015C	Total/NA
C29-C32	22		5.8	5.1	mg/Kg	1	☼	8015C	Total/NA
C33-C36	13		5.8	5.1	mg/Kg	1	☼	8015C	Total/NA
C37-C40	5.9		5.8	5.1	mg/Kg	1	☼	8015C	Total/NA
C6-C44	64		29	5.1	mg/Kg	1	☼	8015C	Total/NA
Diesel Range Organics [C10-C28]	20		5.8	5.1	mg/Kg	1	☼	8015C	Total/NA
Aroclor-1254	100		59	30	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	73		59	30	ug/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB8-3 (Continued) Lab Sample ID: 570-262282-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.83		3.14	2.67	mg/Kg	2	☼	6010D	Total/NA
Barium	149		2.09	1.46	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.335	J	0.418	0.259	mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.314	J	0.418	0.218	mg/Kg	2	☼	6010D	Total/NA
Chromium	25.2		1.05	0.779	mg/Kg	2	☼	6010D	Total/NA
Cobalt	9.71		2.09	1.08	mg/Kg	2	☼	6010D	Total/NA
Copper	36.6		2.09	1.42	mg/Kg	2	☼	6010D	Total/NA
Lead	62.5		2.09	1.67	mg/Kg	2	☼	6010D	Total/NA
Nickel	16.3		2.09	1.18	mg/Kg	2	☼	6010D	Total/NA
Vanadium	43.5		4.18	2.18	mg/Kg	2	☼	6010D	Total/NA
Zinc	120		4.18	3.67	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.0808	J	0.0929	0.0225	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1,2,2-Tetrachloroethane	ND		2.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1,2-Trichloroethane	ND		1.1	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1-Dichloroethene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,1-Dichloropropene	ND		2.2	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2,3-Trichlorobenzene	ND		2.2	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2,3-Trichloropropane	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2,4-Trichlorobenzene	ND		2.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2,4-Trimethylbenzene	ND		2.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2-Dibromo-3-Chloropropane	ND		11	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2-Dibromoethane	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2-Dichlorobenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2-Dichloroethane	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,2-Dichloropropane	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,3,5-Trimethylbenzene	ND		2.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,3-Dichlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,3-Dichloropropane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
1,4-Dichlorobenzene	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
2,2-Dichloropropane	ND		5.5	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
2-Butanone (MEK)	ND		22	4.9	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
2-Chlorotoluene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
2-Hexanone	ND		22	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
4-Chlorotoluene	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		22	3.2	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Acetone	**15**	**J**	22	11	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Benzene	**4.6**		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Bromobenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Bromochloromethane	ND		2.2	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Bromodichloromethane	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Bromoform	ND		5.5	1.4	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Bromomethane	ND		22	7.2	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
cis-1,2-Dichloroethene	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
cis-1,3-Dichloropropene	ND		1.1	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Carbon disulfide	ND		11	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Carbon tetrachloride	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Chlorobenzene	**0.47**	**J**	1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Chloroethane	ND		2.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Chloroform	ND		1.1	0.64	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Chloromethane	ND		22	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Dibromochloromethane	ND		2.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Dibromomethane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Dichlorodifluoromethane	ND		2.2	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Di-isopropyl ether (DIPE)	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Ethanol	ND		270	100	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Ethylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Methylene Chloride	ND		11	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Methyl-t-Butyl Ether (MTBE)	ND		2.2	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Naphthalene	ND		11	4.3	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
n-Butylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
N-Propylbenzene	ND		2.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
o-Xylene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
m,p-Xylene	ND		2.2	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
p-Isopropyltoluene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
sec-Butylbenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Styrene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
trans-1,2-Dichloroethene	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
trans-1,3-Dichloropropene	ND		2.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
tert-Butyl alcohol (TBA)	**5.6**	**J**	22	3.3	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
tert-Butylbenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Tetrachloroethene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Toluene	**1.7**		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Trichloroethene	ND		2.2	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Trichlorofluoromethane	ND		11	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Vinyl acetate	ND	*+	11	4.3	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Vinyl chloride	ND		1.1	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1
Xylenes, Total	ND		2.2	0.66	ug/Kg	☼	01/08/26 09:20	01/08/26 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*32 - 179*	*01/08/26 09:20*	*01/08/26 11:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*01/08/26 09:20*	*01/08/26 11:53*	*1*
Dibromofluoromethane (Surr)	*112*		*58 - 147*	*01/08/26 09:20*	*01/08/26 11:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*01/08/26 09:20*	*01/08/26 11:53*	*1*

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1,1-Trichloroethane	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1,2,2-Tetrachloroethane	ND		2.3	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1,2-Trichloroethane	ND		1.2	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,1-Dichloropropene	ND		2.3	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2,3-Trichlorobenzene	ND		2.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2,3-Trichloropropane	ND		2.3	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2,4-Trichlorobenzene	ND		2.3	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2,4-Trimethylbenzene	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2-Dibromo-3-Chloropropane	ND		12	3.9	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2-Dibromoethane	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2-Dichlorobenzene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,2-Dichloroethane	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,3,5-Trimethylbenzene	ND		2.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,3-Dichlorobenzene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,3-Dichloropropane	ND		1.2	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
1,4-Dichlorobenzene	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
2,2-Dichloropropane	ND		5.8	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
2-Butanone (MEK)	ND		23	5.2	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
2-Chlorotoluene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
2-Hexanone	ND		23	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
4-Chlorotoluene	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		23	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Acetone	**21**	**J**	23	11	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Benzene	**2.6**		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Bromobenzene	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Bromochloromethane	ND		2.3	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Bromodichloromethane	ND		1.2	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Bromoform	ND		5.8	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Bromomethane	ND		23	7.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
cis-1,2-Dichloroethene	ND		1.2	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
cis-1,3-Dichloropropene	ND		1.2	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Carbon disulfide	ND		12	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Carbon tetrachloride	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Chlorobenzene	ND		1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Chloroethane	ND		2.3	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Chloroform	ND		1.2	0.68	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Chloromethane	ND		23	1.8	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Dibromochloromethane	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Dibromomethane	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Dichlorodifluoromethane	ND		2.3	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Di-isopropyl ether (DIPE)	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Ethanol	ND		290	110	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Ethylbenzene	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Ethyl-t-butyl ether (ETBE)	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Isopropylbenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Methylene Chloride	ND		12	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Methyl-t-Butyl Ether (MTBE)	ND		2.3	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Naphthalene	ND		12	4.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
n-Butylbenzene	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
N-Propylbenzene	ND		2.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
o-Xylene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
m,p-Xylene	ND		2.3	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
p-Isopropyltoluene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
sec-Butylbenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Styrene	ND		1.2	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
trans-1,2-Dichloroethene	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
trans-1,3-Dichloropropene	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Tert-amyl-methyl ether (TAME)	ND		1.2	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
tert-Butyl alcohol (TBA)	**5.1**	**J**	23	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
tert-Butylbenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.2	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Toluene	**0.89**	**J**	1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Trichloroethene	ND		2.3	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Trichlorofluoromethane	ND		12	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Vinyl acetate	ND	*+	12	4.5	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Vinyl chloride	ND		1.2	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1
Xylenes, Total	ND		2.3	0.70	ug/Kg	☼	01/08/26 09:20	01/08/26 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*32 - 179*	*01/08/26 09:20*	*01/08/26 12:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:15*	*1*
Dibromofluoromethane (Surr)	*113*		*58 - 147*	*01/08/26 09:20*	*01/08/26 12:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:15*	*1*

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1,2,2-Tetrachloroethane	ND		2.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1,2-Trichloroethane	ND		1.1	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1-Dichloroethene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,1-Dichloropropene	ND		2.2	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2,3-Trichlorobenzene	ND		2.2	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2,3-Trichloropropane	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2,4-Trichlorobenzene	ND		2.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2,4-Trimethylbenzene	ND		2.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2-Dibromo-3-Chloropropane	ND		11	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2-Dibromoethane	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2-Dichlorobenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2-Dichloroethane	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,2-Dichloropropane	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,3,5-Trimethylbenzene	ND		2.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,3-Dichlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,3-Dichloropropane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
1,4-Dichlorobenzene	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
2,2-Dichloropropane	ND		5.5	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
2-Butanone (MEK)	ND		22	5.0	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
2-Chlorotoluene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
2-Hexanone	ND		22	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
4-Chlorotoluene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		22	3.2	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Acetone	**11**	**J**	22	11	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Benzene	**1.4**		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Bromobenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Bromochloromethane	ND		2.2	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Bromodichloromethane	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.5	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Bromomethane	ND		22	7.2	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
cis-1,2-Dichloroethene	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
cis-1,3-Dichloropropene	ND		1.1	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Carbon disulfide	ND		11	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Carbon tetrachloride	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Chlorobenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Chloroethane	ND		2.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Chloroform	ND		1.1	0.65	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Chloromethane	ND		22	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Dibromochloromethane	ND		2.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Dibromomethane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Dichlorodifluoromethane	ND		2.2	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Di-isopropyl ether (DIPE)	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Ethanol	ND		270	100	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Ethylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Isopropylbenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Methylene Chloride	ND		11	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Methyl-t-Butyl Ether (MTBE)	ND		2.2	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Naphthalene	ND		11	4.3	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
n-Butylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
N-Propylbenzene	ND		2.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
o-Xylene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
m,p-Xylene	ND		2.2	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
p-Isopropyltoluene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
sec-Butylbenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Styrene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
trans-1,2-Dichloroethene	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
trans-1,3-Dichloropropene	ND		2.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
tert-Butyl alcohol (TBA)	**6.6**	**J**	22	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
tert-Butylbenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Tetrachloroethene	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Toluene	**0.77**	**J**	1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Trichloroethene	ND		2.2	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Trichlorofluoromethane	ND		11	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Vinyl acetate	ND	*+	11	4.3	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Vinyl chloride	ND		1.1	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1
Xylenes, Total	ND		2.2	0.66	ug/Kg	☼	01/08/26 09:20	01/08/26 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 179*	*01/08/26 09:20*	*01/08/26 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:37*	*1*
Dibromofluoromethane (Surr)	*110*		*58 - 147*	*01/08/26 09:20*	*01/08/26 12:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:37*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.2	0.64	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1,1-Trichloroethane	ND		2.2	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		22	1.0	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1,2-Trichloroethane	ND		2.2	1.0	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1-Dichloroethane	ND		2.2	0.62	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1-Dichloroethene	ND		2.2	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,1-Dichloropropene	ND		4.4	0.86	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2,3-Trichlorobenzene	ND		4.4	0.83	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2,3-Trichloropropane	ND		4.4	0.92	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2,4-Trichlorobenzene	ND		4.4	0.91	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2,4-Trimethylbenzene	ND		4.4	0.61	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2-Dibromo-3-Chloropropane	ND		22	7.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2-Dibromoethane	ND		2.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2-Dichlorobenzene	ND		2.2	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2-Dichloroethane	ND		2.2	0.61	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,2-Dichloropropane	ND		2.2	0.61	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,3,5-Trimethylbenzene	ND		4.4	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,3-Dichlorobenzene	ND		2.2	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,3-Dichloropropane	ND		2.2	0.65	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
1,4-Dichlorobenzene	ND		2.2	0.68	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
2,2-Dichloropropane	ND		11	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
2-Butanone (MEK)	ND		44	10	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
2-Chlorotoluene	ND		2.2	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
2-Hexanone	ND		44	6.8	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
4-Chlorotoluene	ND		2.2	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		44	6.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Acetone	**37**	**J**	44	22	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Benzene	**5.0**		2.2	0.57	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Bromobenzene	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Bromochloromethane	ND		4.4	0.98	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Bromodichloromethane	ND		2.2	0.72	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Bromoform	ND		11	2.9	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Bromomethane	ND		44	14	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
cis-1,2-Dichloroethene	ND		2.2	0.74	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
cis-1,3-Dichloropropene	ND		2.2	0.77	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Carbon disulfide	ND		22	0.88	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Carbon tetrachloride	ND		2.2	0.66	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Chlorobenzene	ND		2.2	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Chloroethane	ND		4.4	0.70	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Chloroform	ND		2.2	1.3	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Chloromethane	ND		44	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Dibromochloromethane	ND		4.4	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Dibromomethane	ND		2.2	0.67	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Dichlorodifluoromethane	ND		4.4	1.0	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Di-isopropyl ether (DIPE)	ND		2.2	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Ethanol	ND		550	200	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Ethylbenzene	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Ethyl-t-butyl ether (ETBE)	ND		2.2	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB2-3
Date Collected: 01/07/26 11:25
Date Received: 01/07/26 15:56

Lab Sample ID: 570-262282-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.2	0.61	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Methylene Chloride	ND		22	6.9	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Naphthalene	ND		22	8.7	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
n-Butylbenzene	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
N-Propylbenzene	ND		4.4	0.57	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
o-Xylene	ND		2.2	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
m,p-Xylene	ND		4.4	1.0	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
p-Isopropyltoluene	ND		2.2	0.62	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
sec-Butylbenzene	ND		2.2	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Styrene	ND		2.2	0.70	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
trans-1,2-Dichloroethene	ND		2.2	0.66	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
trans-1,3-Dichloropropene	ND		4.4	0.62	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Tert-amyl-methyl ether (TAME)	ND		2.2	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
tert-Butyl alcohol (TBA)	**12**	**J**	44	6.7	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
tert-Butylbenzene	ND		2.2	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Tetrachloroethene	ND		2.2	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Toluene	**2.1**	**J**	2.2	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Trichloroethene	ND		4.4	0.85	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Trichlorofluoromethane	ND		22	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Vinyl acetate	ND	*+	22	8.6	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Vinyl chloride	ND		2.2	0.83	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1
Xylenes, Total	ND		4.4	1.3	ug/Kg	☼	01/08/26 09:20	01/08/26 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*32 - 179*	*01/08/26 09:20*	*01/08/26 12:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:59*	*1*
Dibromofluoromethane (Surr)	*111*		*58 - 147*	*01/08/26 09:20*	*01/08/26 12:59*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 12:59*	*1*

Client Sample ID: SB3-2
Date Collected: 01/07/26 11:44
Date Received: 01/07/26 15:56

Lab Sample ID: 570-262282-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1,1-Trichloroethane	ND		0.96	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,2-Dichloroethane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB3-2
Lab Sample ID: 570-262282-5
Date Collected: 01/07/26 11:44
Matrix: Solid
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
2-Butanone (MEK)	ND		19	4.3	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
2-Hexanone	ND		19	3.0	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Acetone	ND		19	9.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Benzene	**1.2**		0.96	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Bromobenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Bromochloromethane	ND		1.9	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Bromoform	ND		4.8	1.3	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Bromomethane	ND		19	6.3	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
cis-1,2-Dichloroethene	ND		0.96	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Carbon disulfide	ND		9.6	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Chlorobenzene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Chloroethane	ND		1.9	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Chloroform	ND		0.96	0.57	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Chloromethane	ND		19	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Dibromomethane	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Di-isopropyl ether (DIPE)	ND		0.96	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Ethanol	ND		240	89	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Ethylbenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Ethyl-t-butyl ether (ETBE)	ND		0.96	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Isopropylbenzene	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Methylene Chloride	ND		9.6	3.0	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Naphthalene	ND		9.6	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
o-Xylene	ND		0.96	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
m,p-Xylene	ND		1.9	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Styrene	ND		0.96	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Tert-amyl-methyl ether (TAME)	ND		0.96	0.19	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
tert-Butyl alcohol (TBA)	**5.3**	**J**	19	2.9	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
tert-Butylbenzene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.96	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Toluene	**0.72**	**J**	0.96	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Trichloroethene	ND		1.9	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Vinyl acetate	ND	*+	9.6	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Vinyl chloride	ND		0.96	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1
Xylenes, Total	ND		1.9	0.58	ug/Kg	☼	01/08/26 09:20	01/08/26 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*32 - 179*	*01/08/26 09:20*	*01/08/26 13:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*01/08/26 09:20*	*01/08/26 13:21*	*1*
Dibromofluoromethane (Surr)	*113*		*58 - 147*	*01/08/26 09:20*	*01/08/26 13:21*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*01/08/26 09:20*	*01/08/26 13:21*	*1*

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1,1-Trichloroethane	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1,2,2-Tetrachloroethane	ND		2.3	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1,2-Trichloroethane	ND		1.1	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1-Dichloroethene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,1-Dichloropropene	ND		2.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2,3-Trichlorobenzene	ND		2.3	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2,3-Trichloropropane	ND		2.3	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2,4-Trichlorobenzene	ND		2.3	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2,4-Trimethylbenzene	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2-Dibromo-3-Chloropropane	ND		11	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2-Dibromoethane	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2-Dichlorobenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,2-Dichloropropane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,3,5-Trimethylbenzene	ND		2.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,3-Dichlorobenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,3-Dichloropropane	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
1,4-Dichlorobenzene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
2,2-Dichloropropane	ND		5.7	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
2-Butanone (MEK)	**5.4**	**J**	23	5.2	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
2-Chlorotoluene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
2-Hexanone	ND		23	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
4-Chlorotoluene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		23	3.3	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Acetone	**38**		23	11	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Benzene	**2.9**		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Bromobenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Bromochloromethane	ND		2.3	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Bromodichloromethane	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.7	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Bromomethane	ND		23	7.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
cis-1,2-Dichloroethene	ND		1.1	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
cis-1,3-Dichloropropene	ND		1.1	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Carbon disulfide	ND		11	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Carbon tetrachloride	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Chlorobenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Chloroethane	ND		2.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Chloroform	ND		1.1	0.68	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Chloromethane	ND		23	1.8	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Dibromochloromethane	ND		2.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Dibromomethane	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Dichlorodifluoromethane	ND		2.3	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Di-isopropyl ether (DIPE)	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Ethanol	ND		290	110	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Ethylbenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Isopropylbenzene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Methylene Chloride	ND		11	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Methyl-t-Butyl Ether (MTBE)	ND		2.3	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Naphthalene	ND		11	4.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
n-Butylbenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
N-Propylbenzene	ND		2.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
o-Xylene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
m,p-Xylene	ND		2.3	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
p-Isopropyltoluene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
sec-Butylbenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Styrene	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
trans-1,2-Dichloroethene	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
trans-1,3-Dichloropropene	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
tert-Butyl alcohol (TBA)	**11**	**J**	23	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
tert-Butylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Tetrachloroethene	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Toluene	**0.92**	**J**	1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Trichloroethene	ND		2.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Trichlorofluoromethane	ND		11	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Vinyl acetate	ND	*+	11	4.5	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Vinyl chloride	ND		1.1	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1
Xylenes, Total	ND		2.3	0.69	ug/Kg	☼	01/08/26 09:20	01/08/26 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*32 - 179*	*01/08/26 09:20*	*01/08/26 13:43*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*	*01/08/26 09:20*	*01/08/26 13:43*	*1*
Dibromofluoromethane (Surr)	*113*		*58 - 147*	*01/08/26 09:20*	*01/08/26 13:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*01/08/26 09:20*	*01/08/26 13:43*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1,1-Trichloroethane	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1,2,2-Tetrachloroethane	ND		2.4	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1,2-Trichloroethane	ND		1.2	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1-Dichloroethene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,1-Dichloropropene	ND		2.4	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2,3-Trichlorobenzene	ND		2.4	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2,3-Trichloropropane	ND		2.4	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2,4-Trichlorobenzene	ND		2.4	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2,4-Trimethylbenzene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2-Dibromo-3-Chloropropane	ND		12	4.0	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2-Dibromoethane	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2-Dichlorobenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,2-Dichloropropane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,3,5-Trimethylbenzene	ND		2.4	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,3-Dichlorobenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,3-Dichloropropane	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
1,4-Dichlorobenzene	ND		1.2	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
2,2-Dichloropropane	ND		6.0	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
2-Butanone (MEK)	ND		24	5.4	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
2-Chlorotoluene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
2-Hexanone	ND		24	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
4-Chlorotoluene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		24	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Acetone	**18**	**J**	24	12	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Benzene	**1.3**		1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Bromobenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Bromochloromethane	ND		2.4	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Bromodichloromethane	ND		1.2	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Bromoform	ND		6.0	1.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Bromomethane	ND		24	7.8	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
cis-1,2-Dichloroethene	ND		1.2	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
cis-1,3-Dichloropropene	ND		1.2	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Carbon disulfide	ND		12	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Carbon tetrachloride	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Chlorobenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Chloroethane	ND		2.4	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Chloroform	ND		1.2	0.70	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Chloromethane	ND		24	1.8	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Dibromochloromethane	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Dibromomethane	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Dichlorodifluoromethane	ND		2.4	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Di-isopropyl ether (DIPE)	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Ethanol	ND		300	110	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Ethylbenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Ethyl-t-butyl ether (ETBE)	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Methylene Chloride	ND		12	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.4	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Naphthalene	ND		12	4.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
n-Butylbenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
N-Propylbenzene	ND		2.4	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
o-Xylene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
m,p-Xylene	ND		2.4	0.57	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
p-Isopropyltoluene	ND		1.2	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
sec-Butylbenzene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Styrene	ND		1.2	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
trans-1,2-Dichloroethene	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
trans-1,3-Dichloropropene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Tert-amyl-methyl ether (TAME)	ND		1.2	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
tert-Butyl alcohol (TBA)	**7.7**	**J**	24	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
tert-Butylbenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Tetrachloroethene	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Toluene	**0.70**	**J**	1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Trichloroethene	ND		2.4	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Trichlorofluoromethane	ND		12	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Vinyl acetate	ND	*+	12	4.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Vinyl chloride	ND		1.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1
Xylenes, Total	ND		2.4	0.72	ug/Kg	☼	01/08/26 09:20	01/08/26 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*32 - 179*	*01/08/26 09:20*	*01/08/26 14:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:05*	*1*
Dibromofluoromethane (Surr)	*112*		*58 - 147*	*01/08/26 09:20*	*01/08/26 14:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:05*	*1*

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1,1-Trichloroethane	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1,2,2-Tetrachloroethane	ND		2.4	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1,2-Trichloroethane	ND		1.2	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,1-Dichloropropene	ND		2.4	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2,3-Trichlorobenzene	ND		2.4	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2,3-Trichloropropane	ND		2.4	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2,4-Trichlorobenzene	ND		2.4	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2,4-Trimethylbenzene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2-Dibromo-3-Chloropropane	ND		12	3.9	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2-Dibromoethane	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2-Dichlorobenzene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,2-Dichloroethane	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,3,5-Trimethylbenzene	ND		2.4	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,3-Dichlorobenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,3-Dichloropropane	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
1,4-Dichlorobenzene	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
2,2-Dichloropropane	ND		5.9	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
2-Butanone (MEK)	ND		24	5.3	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
2-Chlorotoluene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
2-Hexanone	ND		24	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
4-Chlorotoluene	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		24	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Acetone	**12**	**J**	24	12	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Benzene	**1.1**	**J**	1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Bromobenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Bromochloromethane	ND		2.4	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Bromodichloromethane	ND		1.2	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Bromoform	ND		5.9	1.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Bromomethane	ND		24	7.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
cis-1,2-Dichloroethene	ND		1.2	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
cis-1,3-Dichloropropene	ND		1.2	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Carbon disulfide	ND		12	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Carbon tetrachloride	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Chlorobenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Chloroethane	ND		2.4	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Chloroform	ND		1.2	0.69	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Chloromethane	ND		24	1.8	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Dibromochloromethane	ND		2.4	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Dibromomethane	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Dichlorodifluoromethane	ND		2.4	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Di-isopropyl ether (DIPE)	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Ethanol	ND		290	110	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Ethylbenzene	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Ethyl-t-butyl ether (ETBE)	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Isopropylbenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Methylene Chloride	ND		12	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Methyl-t-Butyl Ether (MTBE)	ND		2.4	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Naphthalene	ND		12	4.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
n-Butylbenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
N-Propylbenzene	ND		2.4	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
o-Xylene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
m,p-Xylene	ND		2.4	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
p-Isopropyltoluene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
sec-Butylbenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Styrene	ND		1.2	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
trans-1,2-Dichloroethene	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
trans-1,3-Dichloropropene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Tert-amyl-methyl ether (TAME)	ND		1.2	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
tert-Butyl alcohol (TBA)	**8.7**	**J**	24	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
tert-Butylbenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.2	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Toluene	**0.59**	**J**	1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Trichloroethene	ND		2.4	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Trichlorofluoromethane	ND		12	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Vinyl acetate	ND	*+	12	4.6	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Vinyl chloride	ND		1.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1
Xylenes, Total	ND		2.4	0.71	ug/Kg	☼	01/08/26 09:20	01/08/26 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*32 - 179*	*01/08/26 09:20*	*01/08/26 14:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:27*	*1*
Dibromofluoromethane (Surr)	*113*		*58 - 147*	*01/08/26 09:20*	*01/08/26 14:27*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:27*	*1*

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1,1-Trichloroethane	ND		1.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1,2,2-Tetrachloroethane	ND		2.5	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1,2-Trichloroethane	ND		1.3	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1-Dichloroethane	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1-Dichloroethene	ND		1.3	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,1-Dichloropropene	ND		2.5	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2,3-Trichlorobenzene	ND		2.5	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2,3-Trichloropropane	ND		2.5	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2,4-Trichlorobenzene	ND		2.5	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2,4-Trimethylbenzene	ND		2.5	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2-Dibromo-3-Chloropropane	ND		13	4.2	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2-Dibromoethane	ND		1.3	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2-Dichlorobenzene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2-Dichloroethane	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,2-Dichloropropane	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,3,5-Trimethylbenzene	ND		2.5	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,3-Dichlorobenzene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,3-Dichloropropane	ND		1.3	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
1,4-Dichlorobenzene	ND		1.3	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
2,2-Dichloropropane	ND		6.4	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
2-Butanone (MEK)	**8.4**	**J**	25	5.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
2-Chlorotoluene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
2-Hexanone	ND		25	3.9	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
4-Chlorotoluene	ND		1.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Acetone	**51**		25	12	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Benzene	**2.0**		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Bromobenzene	ND		1.3	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Bromochloromethane	ND		2.5	0.57	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Bromodichloromethane	ND		1.3	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		6.4	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Bromomethane	ND		25	8.4	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
cis-1,2-Dichloroethene	ND		1.3	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
cis-1,3-Dichloropropene	ND		1.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Carbon disulfide	ND		13	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Carbon tetrachloride	ND		1.3	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Chlorobenzene	ND		1.3	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Chloroethane	ND		2.5	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Chloroform	ND		1.3	0.75	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Chloromethane	ND		25	2.0	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Dibromochloromethane	ND		2.5	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Dibromomethane	ND		1.3	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Dichlorodifluoromethane	ND		2.5	0.58	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Di-isopropyl ether (DIPE)	ND		1.3	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Ethanol	ND		320	120	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Ethylbenzene	ND		1.3	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Ethyl-t-butyl ether (ETBE)	ND		1.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Isopropylbenzene	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Methylene Chloride	ND		13	4.0	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Methyl-t-Butyl Ether (MTBE)	ND		2.5	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Naphthalene	ND		13	5.0	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
n-Butylbenzene	ND		1.3	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
N-Propylbenzene	ND		2.5	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
o-Xylene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
m,p-Xylene	ND		2.5	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
p-Isopropyltoluene	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
sec-Butylbenzene	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Styrene	ND		1.3	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
trans-1,2-Dichloroethene	ND		1.3	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
trans-1,3-Dichloropropene	ND		2.5	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Tert-amyl-methyl ether (TAME)	ND		1.3	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
tert-Butyl alcohol (TBA)	**15**	**J**	25	3.9	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
tert-Butylbenzene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Tetrachloroethene	ND		1.3	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Toluene	**1.0**	**J**	1.3	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Trichloroethene	ND		2.5	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Trichlorofluoromethane	ND		13	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Vinyl acetate	ND	*+	13	5.0	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Vinyl chloride	ND		1.3	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1
Xylenes, Total	ND		2.5	0.76	ug/Kg	☼	01/08/26 09:20	01/08/26 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*32 - 179*	*01/08/26 09:20*	*01/08/26 14:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:50*	*1*
Dibromofluoromethane (Surr)	*110*		*58 - 147*	*01/08/26 09:20*	*01/08/26 14:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*01/08/26 09:20*	*01/08/26 14:50*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1,1-Trichloroethane	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1,2,2-Tetrachloroethane	ND		2.4	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1,2-Trichloroethane	ND		1.2	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,1-Dichloropropene	ND		2.4	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2,3-Trichlorobenzene	ND		2.4	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2,3-Trichloropropane	ND		2.4	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2,4-Trichlorobenzene	ND		2.4	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2,4-Trimethylbenzene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2-Dibromo-3-Chloropropane	ND		12	3.9	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2-Dibromoethane	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2-Dichlorobenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2-Dichloroethane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,2-Dichloropropane	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,3,5-Trimethylbenzene	ND		2.4	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,3-Dichlorobenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,3-Dichloropropane	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
1,4-Dichlorobenzene	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
2,2-Dichloropropane	ND		5.9	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
2-Butanone (MEK)	ND		24	5.3	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
2-Chlorotoluene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
2-Hexanone	ND		24	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
4-Chlorotoluene	ND		1.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		24	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Acetone	**33**		24	12	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Benzene	**4.6**		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Bromobenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Bromochloromethane	ND		2.4	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Bromodichloromethane	ND		1.2	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Bromoform	ND		5.9	1.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Bromomethane	ND		24	7.8	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
cis-1,2-Dichloroethene	ND		1.2	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
cis-1,3-Dichloropropene	ND		1.2	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Carbon disulfide	ND		12	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Carbon tetrachloride	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Chlorobenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Chloroethane	ND		2.4	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Chloroform	ND		1.2	0.70	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Chloromethane	ND		24	1.8	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Dibromochloromethane	ND		2.4	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Dibromomethane	ND		1.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Dichlorodifluoromethane	ND		2.4	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Di-isopropyl ether (DIPE)	ND		1.2	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Ethanol	ND		290	110	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Ethylbenzene	ND		1.2	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Ethyl-t-butyl ether (ETBE)	ND		1.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Methylene Chloride	ND		12	3.7	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Methyl-t-Butyl Ether (MTBE)	ND		2.4	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Naphthalene	ND		12	4.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
n-Butylbenzene	ND		1.2	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
N-Propylbenzene	ND		2.4	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
o-Xylene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
m,p-Xylene	ND		2.4	0.56	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
p-Isopropyltoluene	ND		1.2	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
sec-Butylbenzene	ND		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Styrene	ND		1.2	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
trans-1,2-Dichloroethene	ND		1.2	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
trans-1,3-Dichloropropene	ND		2.4	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Tert-amyl-methyl ether (TAME)	ND		1.2	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
tert-Butyl alcohol (TBA)	**11**	**J**	24	3.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
tert-Butylbenzene	ND		1.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Tetrachloroethene	**0.59**	**J**	1.2	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Toluene	**2.0**		1.2	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Trichloroethene	ND		2.4	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Trichlorofluoromethane	ND		12	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Vinyl acetate	ND	*+	12	4.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Vinyl chloride	ND		1.2	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1
Xylenes, Total	ND		2.4	0.71	ug/Kg	☼	01/08/26 09:20	01/08/26 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 179*	*01/08/26 09:20*	*01/08/26 15:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:12*	*1*
Dibromofluoromethane (Surr)	*110*		*58 - 147*	*01/08/26 09:20*	*01/08/26 15:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:12*	*1*

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1,2,2-Tetrachloroethane	ND		2.2	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1,2-Trichloroethane	ND		1.1	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1-Dichloroethene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,1-Dichloropropene	ND		2.2	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2,3-Trichlorobenzene	ND		2.2	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2,3-Trichloropropane	ND		2.2	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2,4-Trichlorobenzene	ND		2.2	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2,4-Trimethylbenzene	ND		2.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2-Dibromo-3-Chloropropane	ND		11	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2-Dibromoethane	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2-Dichlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,2-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,3,5-Trimethylbenzene	ND		2.2	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,3-Dichlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,3-Dichloropropane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
1,4-Dichlorobenzene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
2,2-Dichloropropane	ND		5.6	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
2-Butanone (MEK)	ND		22	5.1	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
2-Chlorotoluene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
2-Hexanone	ND		22	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
4-Chlorotoluene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		22	3.3	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Acetone	**18**	**J**	22	11	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Benzene	**1.8**		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Bromobenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Bromochloromethane	ND		2.2	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Bromodichloromethane	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Bromoform	ND		5.6	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Bromomethane	ND		22	7.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
cis-1,2-Dichloroethene	ND		1.1	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
cis-1,3-Dichloropropene	ND		1.1	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Carbon disulfide	ND		11	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Carbon tetrachloride	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Chlorobenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Chloroethane	ND		2.2	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Chloroform	ND		1.1	0.66	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Chloromethane	ND		22	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Dibromochloromethane	ND		2.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Dibromomethane	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Dichlorodifluoromethane	ND		2.2	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Di-isopropyl ether (DIPE)	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Ethanol	ND		280	100	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Ethylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Isopropylbenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Methylene Chloride	ND		11	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Methyl-t-Butyl Ether (MTBE)	ND		2.2	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Naphthalene	ND		11	4.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
n-Butylbenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
N-Propylbenzene	ND		2.2	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
o-Xylene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
m,p-Xylene	ND		2.2	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
p-Isopropyltoluene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
sec-Butylbenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Styrene	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
trans-1,2-Dichloroethene	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
trans-1,3-Dichloropropene	ND		2.2	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
tert-Butyl alcohol (TBA)	**5.9**	**J**	22	3.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
tert-Butylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB6-2
Date Collected: 01/07/26 13:10
Date Received: 01/07/26 15:56
Lab Sample ID: 570-262282-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.2**		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Toluene	**0.83**	**J**	1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Trichloroethene	**0.82**	**J**	2.2	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Trichlorofluoromethane	ND		11	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Vinyl acetate	ND	*+	11	4.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Vinyl chloride	ND		1.1	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1
Xylenes, Total	ND		2.2	0.67	ug/Kg	☼	01/08/26 09:20	01/08/26 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*32 - 179*	*01/08/26 09:20*	*01/08/26 15:34*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:34*	*1*
Dibromofluoromethane (Surr)	*110*		*58 - 147*	*01/08/26 09:20*	*01/08/26 15:34*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:34*	*1*

Client Sample ID: SB6-3
Date Collected: 01/07/26 13:15
Date Received: 01/07/26 15:56
Lab Sample ID: 570-262282-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1,2,2-Tetrachloroethane	ND		2.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1,2-Trichloroethane	ND		1.1	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1-Dichloroethane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,1-Dichloropropene	ND		2.1	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2,3-Trichlorobenzene	ND		2.1	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2,3-Trichloropropane	ND		2.1	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2,4-Trichlorobenzene	ND		2.1	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2,4-Trimethylbenzene	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2-Dibromo-3-Chloropropane	ND		11	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2-Dibromoethane	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2-Dichlorobenzene	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2-Dichloroethane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,2-Dichloropropane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,3,5-Trimethylbenzene	ND		2.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,3-Dichlorobenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,3-Dichloropropane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
1,4-Dichlorobenzene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
2,2-Dichloropropane	ND		5.3	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
2-Butanone (MEK)	ND		21	4.7	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
2-Chlorotoluene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
2-Hexanone	ND		21	3.2	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
4-Chlorotoluene	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		21	3.1	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Acetone	**18**	**J**	21	10	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Benzene	**2.1**		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Bromobenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Bromochloromethane	ND		2.1	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Bromodichloromethane	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.3	1.4	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Bromomethane	ND		21	6.9	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
cis-1,2-Dichloroethene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
cis-1,3-Dichloropropene	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Carbon disulfide	ND		11	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Carbon tetrachloride	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Chlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Chloroethane	ND		2.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Chloroform	ND		1.1	0.62	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Chloromethane	ND		21	1.6	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Dibromochloromethane	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Dibromomethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Dichlorodifluoromethane	ND		2.1	0.48	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Di-isopropyl ether (DIPE)	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Ethanol	ND		260	97	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Isopropylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Methylene Chloride	ND		11	3.3	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Methyl-t-Butyl Ether (MTBE)	ND		2.1	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Naphthalene	ND		11	4.1	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
n-Butylbenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
N-Propylbenzene	ND		2.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
o-Xylene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
m,p-Xylene	ND		2.1	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
p-Isopropyltoluene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
sec-Butylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Styrene	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
trans-1,2-Dichloroethene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
trans-1,3-Dichloropropene	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.20	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
tert-Butyl alcohol (TBA)	**4.7**	**J**	21	3.2	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
tert-Butylbenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Tetrachloroethene	**0.93**	**J**	1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Toluene	**0.74**	**J**	1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Trichloroethene	**0.79**	**J**	2.1	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Trichlorofluoromethane	ND		11	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Vinyl acetate	ND	*+	11	4.1	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Vinyl chloride	ND		1.1	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1
Xylenes, Total	ND		2.1	0.63	ug/Kg	☼	01/08/26 09:20	01/08/26 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*32 - 179*	*01/08/26 09:20*	*01/08/26 15:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:56*	*1*
Dibromofluoromethane (Surr)	*108*		*58 - 147*	*01/08/26 09:20*	*01/08/26 15:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 15:56*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1,2,2-Tetrachloroethane	ND		2.3	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1,2-Trichloroethane	ND		1.1	0.53	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1-Dichloroethene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,1-Dichloropropene	ND		2.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2,3-Trichlorobenzene	ND		2.3	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2,3-Trichloropropane	ND		2.3	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2,4-Trichlorobenzene	ND		2.3	0.47	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2,4-Trimethylbenzene	ND		2.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2-Dibromo-3-Chloropropane	ND		11	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2-Dibromoethane	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2-Dichlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,2-Dichloropropane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,3,5-Trimethylbenzene	ND		2.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,3-Dichlorobenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,3-Dichloropropane	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
1,4-Dichlorobenzene	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
2,2-Dichloropropane	ND		5.7	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
2-Butanone (MEK)	ND		23	5.1	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
2-Chlorotoluene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
2-Hexanone	ND		23	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
4-Chlorotoluene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		23	3.3	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Acetone	**20**	**J**	23	11	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Benzene	**2.0**		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Bromobenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Bromochloromethane	ND		2.3	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Bromodichloromethane	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Bromoform	ND		5.7	1.5	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Bromomethane	ND		23	7.4	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
cis-1,2-Dichloroethene	ND		1.1	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
cis-1,3-Dichloropropene	ND		1.1	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Carbon disulfide	ND		11	0.45	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Carbon tetrachloride	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Chlorobenzene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Chloroethane	ND		2.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Chloroform	ND		1.1	0.67	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Chloromethane	ND		23	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Dibromochloromethane	ND		2.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Dibromomethane	ND		1.1	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Dichlorodifluoromethane	ND		2.3	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Di-isopropyl ether (DIPE)	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Ethanol	ND		280	100	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Ethylbenzene	ND		1.1	0.23	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Methylene Chloride	ND		11	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Methyl-t-Butyl Ether (MTBE)	ND		2.3	0.21	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Naphthalene	ND		11	4.4	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
n-Butylbenzene	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
N-Propylbenzene	ND		2.3	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
o-Xylene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
m,p-Xylene	ND		2.3	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
p-Isopropyltoluene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
sec-Butylbenzene	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Styrene	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
trans-1,2-Dichloroethene	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
trans-1,3-Dichloropropene	ND		2.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
tert-Butyl alcohol (TBA)	**6.1**	**J**	23	3.5	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
tert-Butylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Tetrachloroethene	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Toluene	**0.74**	**J**	1.1	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Trichloroethene	ND		2.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Trichlorofluoromethane	ND		11	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Vinyl acetate	ND	*+	11	4.4	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Vinyl chloride	ND		1.1	0.43	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1
Xylenes, Total	ND		2.3	0.68	ug/Kg	☼	01/08/26 09:20	01/08/26 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*32 - 179*	*01/08/26 09:20*	*01/08/26 16:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*01/08/26 09:20*	*01/08/26 16:18*	*1*
Dibromofluoromethane (Surr)	*110*		*58 - 147*	*01/08/26 09:20*	*01/08/26 16:18*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 16:18*	*1*

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.38	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1,1-Trichloroethane	ND		1.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1,2,2-Tetrachloroethane	ND		2.6	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	0.60	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1,2-Trichloroethane	ND		1.3	0.61	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1-Dichloroethane	ND		1.3	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1-Dichloroethene	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,1-Dichloropropene	ND		2.6	0.51	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2,3-Trichlorobenzene	ND		2.6	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2,3-Trichloropropane	ND		2.6	0.55	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2,4-Trichlorobenzene	ND		2.6	0.54	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2,4-Trimethylbenzene	ND		2.6	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2-Dibromo-3-Chloropropane	ND		13	4.4	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2-Dibromoethane	ND		1.3	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2-Dichlorobenzene	ND		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,2-Dichloroethane	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,3,5-Trimethylbenzene	ND		2.6	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,3-Dichlorobenzene	ND		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,3-Dichloropropane	ND		1.3	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
1,4-Dichlorobenzene	ND		1.3	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
2,2-Dichloropropane	ND		6.5	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
2-Butanone (MEK)	ND		26	5.9	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
2-Chlorotoluene	ND		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
2-Hexanone	ND		26	4.0	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
4-Chlorotoluene	ND		1.3	0.32	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		26	3.8	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Acetone	**15**	**J**	26	13	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Benzene	**1.4**		1.3	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Bromobenzene	ND		1.3	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Bromochloromethane	ND		2.6	0.58	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Bromodichloromethane	ND		1.3	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Bromoform	ND		6.5	1.7	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Bromomethane	ND		26	8.6	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
cis-1,2-Dichloroethene	ND		1.3	0.44	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
cis-1,3-Dichloropropene	ND		1.3	0.46	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Carbon disulfide	ND		13	0.52	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Carbon tetrachloride	ND		1.3	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Chlorobenzene	ND		1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Chloroethane	ND		2.6	0.42	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Chloroform	ND		1.3	0.77	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Chloromethane	ND		26	2.0	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Dibromochloromethane	ND		2.6	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Dibromomethane	ND		1.3	0.40	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Dichlorodifluoromethane	ND		2.6	0.59	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Di-isopropyl ether (DIPE)	ND		1.3	0.30	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Ethanol	ND		330	120	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Ethylbenzene	ND		1.3	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Ethyl-t-butyl ether (ETBE)	ND		1.3	0.31	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Isopropylbenzene	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Methylene Chloride	ND		13	4.1	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Methyl-t-Butyl Ether (MTBE)	ND		2.6	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Naphthalene	ND		13	5.1	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
n-Butylbenzene	ND		1.3	0.27	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
N-Propylbenzene	ND		2.6	0.34	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
o-Xylene	ND		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
m,p-Xylene	ND		2.6	0.62	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
p-Isopropyltoluene	ND		1.3	0.37	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
sec-Butylbenzene	ND		1.3	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Styrene	ND		1.3	0.41	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
trans-1,2-Dichloroethene	ND		1.3	0.39	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
trans-1,3-Dichloropropene	ND		2.6	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Tert-amyl-methyl ether (TAME)	ND		1.3	0.25	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
tert-Butyl alcohol (TBA)	**7.9**	**J**	26	4.0	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
tert-Butylbenzene	ND		1.3	0.33	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.3	0.29	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Toluene	**0.67**	**J**	1.3	0.35	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Trichloroethene	ND		2.6	0.50	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Trichlorofluoromethane	ND		13	0.36	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Vinyl acetate	ND	*+	13	5.1	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Vinyl chloride	ND		1.3	0.49	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1
Xylenes, Total	ND		2.6	0.78	ug/Kg	☼	01/08/26 09:20	01/08/26 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*32 - 179*	*01/08/26 09:20*	*01/08/26 16:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*01/08/26 09:20*	*01/08/26 16:40*	*1*
Dibromofluoromethane (Surr)	*111*		*58 - 147*	*01/08/26 09:20*	*01/08/26 16:40*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:20*	*01/08/26 16:40*	*1*

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1,2,2-Tetrachloroethane	ND		2.1	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	0.49	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1,2-Trichloroethane	ND		1.1	0.49	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1-Dichloroethane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,1-Dichloropropene	ND		2.1	0.41	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2,3-Trichlorobenzene	ND		2.1	0.40	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2,3-Trichloropropane	ND		2.1	0.44	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2,4-Trichlorobenzene	ND		2.1	0.43	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2,4-Trimethylbenzene	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2-Dibromo-3-Chloropropane	ND		11	3.5	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2-Dibromoethane	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2-Dichlorobenzene	ND		1.1	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2-Dichloroethane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,2-Dichloropropane	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,3,5-Trimethylbenzene	ND		2.1	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,3-Dichlorobenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,3-Dichloropropane	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
1,4-Dichlorobenzene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
2,2-Dichloropropane	ND		5.3	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
2-Butanone (MEK)	**5.6**	**J**	21	4.8	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
2-Chlorotoluene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
2-Hexanone	ND		21	3.2	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
4-Chlorotoluene	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		21	3.1	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Acetone	**26**		21	10	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Benzene	**2.7**		1.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Bromobenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Bromochloromethane	ND		2.1	0.47	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Bromodichloromethane	ND		1.1	0.34	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.3	1.4	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Bromomethane	ND		21	6.9	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
cis-1,2-Dichloroethene	ND		1.1	0.36	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
cis-1,3-Dichloropropene	ND		1.1	0.37	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Carbon disulfide	ND		11	0.42	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Carbon tetrachloride	ND		1.1	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Chlorobenzene	ND		1.1	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Chloroethane	ND		2.1	0.33	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Chloroform	ND		1.1	0.62	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Chloromethane	ND		21	1.6	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Dibromochloromethane	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Dibromomethane	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Dichlorodifluoromethane	ND		2.1	0.48	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Di-isopropyl ether (DIPE)	ND		1.1	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Ethanol	ND		260	97	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Ethyl-t-butyl ether (ETBE)	ND		1.1	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Isopropylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Methylene Chloride	ND		11	3.3	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Methyl-t-Butyl Ether (MTBE)	ND		2.1	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Naphthalene	ND		11	4.1	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
n-Butylbenzene	ND		1.1	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
N-Propylbenzene	ND		2.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
o-Xylene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
m,p-Xylene	ND		2.1	0.50	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
p-Isopropyltoluene	ND		1.1	0.30	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
sec-Butylbenzene	ND		1.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Styrene	ND		1.1	0.33	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
trans-1,2-Dichloroethene	ND		1.1	0.32	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
trans-1,3-Dichloropropene	ND		2.1	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Tert-amyl-methyl ether (TAME)	ND		1.1	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
tert-Butyl alcohol (TBA)	**5.2**	**J**	21	3.2	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
tert-Butylbenzene	ND		1.1	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Tetrachloroethene	**0.24**	**J**	1.1	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Toluene	**1.4**		1.1	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Trichloroethene	ND		2.1	0.41	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Trichlorofluoromethane	ND		11	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Vinyl acetate	ND	*+	11	4.1	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Vinyl chloride	ND		1.1	0.40	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1
Xylenes, Total	ND		2.1	0.63	ug/Kg	☼	01/08/26 09:22	01/08/26 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*32 - 179*	*01/08/26 09:22*	*01/08/26 17:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*01/08/26 09:22*	*01/08/26 17:02*	*1*
Dibromofluoromethane (Surr)	*115*		*58 - 147*	*01/08/26 09:22*	*01/08/26 17:02*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:22*	*01/08/26 17:02*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1,1-Trichloroethane	ND		0.96	0.23	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.45	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2,4-Trimethylbenzene	ND		1.9	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2-Dichloroethane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
2-Butanone (MEK)	ND		19	4.4	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
2-Hexanone	ND		19	3.0	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		19	2.8	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Acetone	**20**		19	9.5	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Benzene	**2.3**		0.96	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Bromobenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Bromochloromethane	ND		1.9	0.43	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Bromoform	ND		4.8	1.3	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Bromomethane	ND		19	6.3	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
cis-1,2-Dichloroethene	ND		0.96	0.33	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Carbon disulfide	ND		9.6	0.39	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Chlorobenzene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Chloroethane	ND		1.9	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Chloroform	ND		0.96	0.57	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Chloromethane	ND		19	1.5	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Dibromomethane	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Di-isopropyl ether (DIPE)	ND		0.96	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Ethanol	ND		240	89	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Ethylbenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Ethyl-t-butyl ether (ETBE)	ND		0.96	0.23	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Methylene Chloride	ND		9.6	3.0	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Naphthalene	ND		9.6	3.8	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
o-Xylene	ND		0.96	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
m,p-Xylene	ND		1.9	0.46	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Styrene	ND		0.96	0.31	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Tert-amyl-methyl ether (TAME)	ND		0.96	0.19	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
tert-Butyl alcohol (TBA)	**3.9**	**J**	19	3.0	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
tert-Butylbenzene	ND		0.96	0.25	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Tetrachloroethene	ND		0.96	0.22	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Toluene	**1.1**		0.96	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Trichloroethene	ND		1.9	0.37	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Vinyl acetate	ND	*+	9.6	3.8	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Vinyl chloride	ND		0.96	0.37	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1
Xylenes, Total	ND		1.9	0.58	ug/Kg	☼	01/08/26 09:22	01/08/26 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*32 - 179*	*01/08/26 09:22*	*01/08/26 17:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*01/08/26 09:22*	*01/08/26 17:24*	*1*
Dibromofluoromethane (Surr)	*114*		*58 - 147*	*01/08/26 09:22*	*01/08/26 17:24*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*01/08/26 09:22*	*01/08/26 17:24*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C7	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C8	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C9-C10	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C11-C12	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C13-C14	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C15-C16	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C17-C18	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C19-C20	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C21-C22	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C23-C24	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C25-C28	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C29-C32	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C33-C36	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C37-C40	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C41-C44	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
C6-C44	ND		28	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1
Diesel Range Organics [C10-C28]	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*01/08/26 15:37*	*01/09/26 15:12*	*1*

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C7	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C8	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C9-C10	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C11-C12	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C13-C14	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C15-C16	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C17-C18	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C19-C20	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C21-C22	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C23-C24	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C25-C28	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C29-C32	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C33-C36	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C37-C40	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C41-C44	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
C6-C44	ND		33	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1
Diesel Range Organics [C10-C28]	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*01/08/26 15:37*	*01/09/26 15:33*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C7	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C8	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C9-C10	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C11-C12	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C13-C14	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C15-C16	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C17-C18	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C19-C20	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C21-C22	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C23-C24	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C25-C28	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C29-C32	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C33-C36	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C37-C40	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C41-C44	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
C6-C44	ND		29	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1
Diesel Range Organics [C10-C28]	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*106*		*29 - 160*	*01/08/26 15:37*	*01/09/26 15:55*	*1*

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C7	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C8	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C9-C10	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C11-C12	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C13-C14	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C15-C16	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C17-C18	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C19-C20	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C21-C22	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C23-C24	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C25-C28	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C29-C32	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C33-C36	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C37-C40	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C41-C44	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
C6-C44	ND		33	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1
Diesel Range Organics [C10-C28]	ND		6.5	5.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*93*		*29 - 160*	*01/08/26 15:37*	*01/09/26 16:16*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C7	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C8	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C9-C10	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C11-C12	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C13-C14	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C15-C16	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C17-C18	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C19-C20	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C21-C22	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C23-C24	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C25-C28	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C29-C32	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C33-C36	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C37-C40	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C41-C44	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
C6-C44	ND		27	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1
Diesel Range Organics [C10-C28]	ND		5.3	4.7	mg/Kg	☼	01/08/26 15:37	01/09/26 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*01/08/26 15:37*	*01/09/26 16:37*	*1*

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C7	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C8	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C9-C10	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C11-C12	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C13-C14	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C15-C16	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C17-C18	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C19-C20	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C21-C22	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C23-C24	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C25-C28	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C29-C32	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C33-C36	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C37-C40	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C41-C44	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
C6-C44	**12**	**J**	33	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1
Diesel Range Organics [C10-C28]	ND		6.6	5.8	mg/Kg	☼	01/08/26 15:37	01/09/26 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*29 - 160*	*01/08/26 15:37*	*01/09/26 16:59*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C7	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C8	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C9-C10	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C11-C12	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C13-C14	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C15-C16	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C17-C18	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C19-C20	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C21-C22	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C23-C24	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C25-C28	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C29-C32	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C33-C36	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C37-C40	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C41-C44	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
C6-C44	ND		29	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1
Diesel Range Organics [C10-C28]	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:37	01/09/26 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*01/08/26 15:37*	*01/09/26 17:20*	*1*

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C7	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C8	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C9-C10	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C11-C12	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C13-C14	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C15-C16	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C17-C18	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C19-C20	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C21-C22	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C23-C24	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C25-C28	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C29-C32	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C33-C36	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C37-C40	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C41-C44	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
C6-C44	ND		26	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1
Diesel Range Organics [C10-C28]	ND		5.3	4.6	mg/Kg	☼	01/08/26 15:37	01/09/26 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*91*		*29 - 160*	*01/08/26 15:37*	*01/09/26 17:42*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C7	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C8	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C9-C10	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C11-C12	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C13-C14	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C15-C16	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C17-C18	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C19-C20	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C21-C22	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C23-C24	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C25-C28	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C29-C32	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C33-C36	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C37-C40	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C41-C44	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
C6-C44	**11**	**J**	30	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1
Diesel Range Organics [C10-C28]	**5.9**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*29 - 160*	*01/08/26 15:37*	*01/09/26 18:03*	*1*

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C7	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C8	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C9-C10	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C11-C12	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C13-C14	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C15-C16	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C17-C18	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C19-C20	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C21-C22	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C23-C24	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C25-C28	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C29-C32	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C33-C36	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C37-C40	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C41-C44	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
C6-C44	ND		27	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1
Diesel Range Organics [C10-C28]	ND		5.5	4.8	mg/Kg	☼	01/08/26 15:37	01/09/26 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*01/08/26 15:37*	*01/09/26 18:25*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C7	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C8	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C9-C10	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C11-C12	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C13-C14	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C15-C16	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C17-C18	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C19-C20	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C21-C22	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C23-C24	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C25-C28	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C29-C32	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C33-C36	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C37-C40	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C41-C44	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
C6-C44	ND		28	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1
Diesel Range Organics [C10-C28]	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:37	01/09/26 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*89*		*29 - 160*	*01/08/26 15:37*	*01/09/26 18:46*	*1*

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C7	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C8	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C9-C10	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C11-C12	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C13-C14	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C15-C16	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C17-C18	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C19-C20	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C21-C22	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C23-C24	**6.1**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C25-C28	**17**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C29-C32	**15**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C33-C36	**6.5**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C37-C40	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C41-C44	ND		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
C6-C44	**57**		29	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1
Diesel Range Organics [C10-C28]	**30**		5.9	5.2	mg/Kg	☼	01/08/26 15:37	01/09/26 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*91*		*29 - 160*	*01/08/26 15:37*	*01/09/26 19:08*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C7	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C8	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C9-C10	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C11-C12	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C13-C14	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C15-C16	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C17-C18	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C19-C20	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C21-C22	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C23-C24	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C25-C28	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C29-C32	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C33-C36	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C37-C40	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C41-C44	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
C6-C44	ND		28	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1
Diesel Range Organics [C10-C28]	ND		5.6	4.9	mg/Kg	☼	01/08/26 15:40	01/09/26 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*86*		*29 - 160*	*01/08/26 15:40*	*01/09/26 13:14*	*1*

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C7	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C8	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C9-C10	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C11-C12	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C13-C14	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C15-C16	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C17-C18	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C19-C20	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C21-C22	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C23-C24	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C25-C28	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C29-C32	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C33-C36	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C37-C40	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C41-C44	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
C6-C44	ND		30	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1
Diesel Range Organics [C10-C28]	ND		6.0	5.3	mg/Kg	☼	01/08/26 15:40	01/09/26 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*82*		*29 - 160*	*01/08/26 15:40*	*01/09/26 13:40*	*1*

Method: EPA 8015C - Diesel Range Organics (DRO) (GC)

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C7	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C8	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C9-C10	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C11-C12	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C13-C14	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C15-C16	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C17-C18	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C19-C20	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C21-C22	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C23-C24	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C25-C28	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C29-C32	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C33-C36	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C37-C40	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C41-C44	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
C6-C44	ND		32	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1
Diesel Range Organics [C10-C28]	ND		6.4	5.6	mg/Kg	☼	01/08/26 15:40	01/09/26 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*86*		*29 - 160*	*01/08/26 15:40*	*01/09/26 14:07*	*1*

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C7	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C8	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C9-C10	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C11-C12	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C13-C14	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C15-C16	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C17-C18	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C19-C20	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C21-C22	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C23-C24	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C25-C28	**14**		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C29-C32	**22**		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C33-C36	**13**		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C37-C40	**5.9**		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C41-C44	ND		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
C6-C44	**64**		29	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1
Diesel Range Organics [C10-C28]	**20**		5.8	5.1	mg/Kg	☼	01/08/26 15:40	01/09/26 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*87*		*29 - 160*	*01/08/26 15:40*	*01/09/26 14:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1221	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1232	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1242	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1248	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1254	ND		56	29	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1
Aroclor-1260	ND		56	29	ug/Kg	☼	01/11/26 18:36	01/12/26 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 120*	*01/11/26 18:36*	*01/12/26 21:17*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*25 - 120*	*01/11/26 18:36*	*01/12/26 21:17*	*1*

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		67	53	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1221	ND		67	53	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1232	ND		67	53	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1242	ND		67	53	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1248	ND		67	53	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1254	ND		67	34	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1
Aroclor-1260	ND		67	34	ug/Kg	☼	01/11/26 18:36	01/12/26 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 120*	*01/11/26 18:36*	*01/12/26 21:36*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*25 - 120*	*01/11/26 18:36*	*01/12/26 21:36*	*1*

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1221	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1232	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1242	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1248	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1254	ND		60	30	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1
Aroclor-1260	ND		60	30	ug/Kg	☼	01/11/26 18:36	01/12/26 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 120*	*01/11/26 18:36*	*01/12/26 21:55*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*25 - 120*	*01/11/26 18:36*	*01/12/26 21:55*	*1*

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1
Aroclor-1221	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1
Aroclor-1232	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1242	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1
Aroclor-1248	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1
Aroclor-1254	ND		65	33	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1
Aroclor-1260	ND		65	33	ug/Kg	☼	01/11/26 18:36	01/12/26 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*		*20 - 120*	*01/11/26 18:36*	*01/12/26 22:14*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*25 - 120*	*01/11/26 18:36*	*01/12/26 22:14*	*1*

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		54	42	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1221	ND		54	42	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1232	ND		54	42	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1242	ND		54	42	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1248	ND		54	42	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1254	ND		54	28	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1
Aroclor-1260	ND		54	28	ug/Kg	☼	01/11/26 18:36	01/12/26 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*20 - 120*	*01/11/26 18:36*	*01/12/26 22:33*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*25 - 120*	*01/11/26 18:36*	*01/12/26 22:33*	*1*

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		67	52	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1221	ND		67	52	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1232	ND		67	52	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1242	ND		67	52	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1248	ND		67	52	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1254	ND		67	34	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1
Aroclor-1260	ND		67	34	ug/Kg	☼	01/11/26 18:36	01/12/26 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 120*	*01/11/26 18:36*	*01/12/26 22:53*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*25 - 120*	*01/11/26 18:36*	*01/12/26 22:53*	*1*

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1
Aroclor-1221	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1
Aroclor-1232	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1
Aroclor-1242	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1
Aroclor-1248	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1
Aroclor-1254	ND		59	30	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	ND		59	30	ug/Kg	☼	01/11/26 18:36	01/12/26 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*20 - 120*	*01/11/26 18:36*	*01/12/26 23:12*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*25 - 120*	*01/11/26 18:36*	*01/12/26 23:12*	*1*

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52	41	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1221	ND		52	41	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1232	ND		52	41	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1242	ND		52	41	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1248	ND		52	41	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1254	ND		52	27	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1
Aroclor-1260	ND		52	27	ug/Kg	☼	01/11/26 18:36	01/12/26 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*20 - 120*	*01/11/26 18:36*	*01/12/26 23:31*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*25 - 120*	*01/11/26 18:36*	*01/12/26 23:31*	*1*

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1221	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1232	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1242	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1248	ND		60	47	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1254	**750**	**p**	60	30	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1
Aroclor-1260	**740**		60	30	ug/Kg	☼	01/11/26 18:36	01/12/26 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*20 - 120*	*01/11/26 18:36*	*01/12/26 23:50*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*25 - 120*	*01/11/26 18:36*	*01/12/26 23:50*	*1*

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1221	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1232	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1242	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1248	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1254	**86**		55	28	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1
Aroclor-1260	**110**		55	28	ug/Kg	☼	01/11/26 18:36	01/13/26 00:10	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	113		20 - 120	01/11/26 18:36	01/13/26 00:10	1
Tetrachloro-m-xylene (Surr)	108		25 - 120	01/11/26 18:36	01/13/26 00:10	1

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1221	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1232	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1242	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1248	ND		56	44	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1254	ND		56	29	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1
Aroclor-1260	ND		56	29	ug/Kg	☼	01/11/26 18:36	01/13/26 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	87		20 - 120	01/11/26 18:36	01/13/26 00:29	1
Tetrachloro-m-xylene (Surr)	102		25 - 120	01/11/26 18:36	01/13/26 00:29	1

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		59	47	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1221	ND		59	47	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1232	ND		59	47	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1242	ND		59	47	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1248	ND		59	47	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1254	**71**		59	30	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1
Aroclor-1260	**84**		59	30	ug/Kg	☼	01/11/26 18:36	01/13/26 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		20 - 120	01/11/26 18:36	01/13/26 02:05	1
Tetrachloro-m-xylene (Surr)	93		25 - 120	01/11/26 18:36	01/13/26 02:05	1

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1221	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1232	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1242	ND		55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1248	**140**	**p**	55	43	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1254	**500**		55	28	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1
Aroclor-1260	**110**		55	28	ug/Kg	☼	01/11/26 18:36	01/13/26 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		20 - 120	01/11/26 18:36	01/13/26 02:24	1
Tetrachloro-m-xylene (Surr)	88		25 - 120	01/11/26 18:36	01/13/26 02:24	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		61	48	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1221	ND		61	48	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1232	ND		61	48	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1242	ND		61	48	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1248	**53**	**J p**	61	48	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1254	**150**		61	31	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1
Aroclor-1260	**61**		61	31	ug/Kg	☼	01/11/26 18:36	01/13/26 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*20 - 120*	*01/11/26 18:36*	*01/13/26 02:43*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*25 - 120*	*01/11/26 18:36*	*01/13/26 02:43*	*1*

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1221	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1232	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1242	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1248	ND		65	51	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1254	**45**	**J**	65	33	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1
Aroclor-1260	**33**	**J**	65	33	ug/Kg	☼	01/11/26 18:36	01/13/26 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*20 - 120*	*01/11/26 18:36*	*01/13/26 03:02*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*25 - 120*	*01/11/26 18:36*	*01/13/26 03:02*	*1*

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1221	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1232	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1242	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1248	ND		59	46	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1254	**100**		59	30	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1
Aroclor-1260	**73**		59	30	ug/Kg	☼	01/11/26 18:36	01/13/26 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 120*	*01/11/26 18:36*	*01/13/26 03:22*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*25 - 120*	*01/11/26 18:36*	*01/13/26 03:22*	*1*

Method: SW846 6010D - Metals (ICP)

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.2	5.81	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Arsenic	ND		3.35	2.85	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Barium	**94.9**	**F2 F1**	2.23	1.56	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Beryllium	ND		0.447	0.277	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Cadmium	ND		0.447	0.232	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Chromium	**10.7**		1.12	0.832	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Cobalt	**5.94**		2.23	1.16	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Copper	**8.27**		2.23	1.52	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Lead	ND		2.23	1.78	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Molybdenum	ND		4.47	2.25	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Nickel	**7.22**		2.23	1.26	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Selenium	ND		3.35	2.64	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Silver	ND		2.23	1.08	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Thallium	ND		11.2	5.96	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Vanadium	**28.8**		4.47	2.33	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2
Zinc	**37.0**		4.47	3.92	mg/Kg	☼	01/08/26 06:40	01/12/26 15:58	2

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		13.1	6.80	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Arsenic	**4.40**		3.93	3.34	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Barium	**243**		2.62	1.83	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Beryllium	**0.707**		0.523	0.324	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Cadmium	ND		0.523	0.272	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Chromium	**29.6**		1.31	0.975	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Cobalt	**15.9**		2.62	1.35	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Copper	**39.1**		2.62	1.78	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Lead	**7.67**		2.62	2.09	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Molybdenum	ND		5.23	2.63	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Nickel	**22.5**		2.62	1.47	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Selenium	ND		3.93	3.10	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Silver	ND		2.62	1.27	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Thallium	ND		13.1	6.98	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Vanadium	**61.1**		5.23	2.73	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2
Zinc	**86.7**		5.23	4.59	mg/Kg	☼	01/08/26 06:40	01/12/26 16:38	2

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.6	6.04	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Arsenic	**3.85**		3.48	2.96	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Barium	**161**		2.32	1.62	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Beryllium	**0.395**	**J**	0.464	0.288	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Cadmium	ND		0.464	0.242	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Chromium	**22.1**		1.16	0.865	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Cobalt	**11.1**		2.32	1.20	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Copper	**23.2**		2.32	1.58	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2

Method: SW846 6010D - Metals (ICP) (Continued)

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.57**		2.32	1.85	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Molybdenum	ND		4.64	2.33	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Nickel	**15.5**		2.32	1.31	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Selenium	ND		3.48	2.75	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Silver	ND		2.32	1.13	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Thallium	ND		11.6	6.19	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Vanadium	**48.6**		4.64	2.42	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2
Zinc	**68.5**		4.64	4.07	mg/Kg	☼	01/08/26 06:40	01/12/26 16:47	2

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.5	5.97	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Arsenic	**3.08**	**J**	3.45	2.93	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Barium	**208**		2.30	1.60	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Beryllium	**0.436**	**J**	0.459	0.285	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Cadmium	ND		0.459	0.239	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Chromium	**23.5**		1.15	0.856	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Cobalt	**12.4**		2.30	1.19	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Copper	**27.3**		2.30	1.56	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Lead	**5.49**		2.30	1.83	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Molybdenum	ND		4.59	2.31	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Nickel	**16.9**		2.30	1.29	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Selenium	ND		3.45	2.72	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Silver	ND		2.30	1.12	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Thallium	ND		11.5	6.13	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Vanadium	**55.4**		4.59	2.39	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2
Zinc	**77.9**		4.59	4.03	mg/Kg	☼	01/08/26 06:40	01/12/26 16:49	2

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.65	5.02	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Arsenic	ND		2.89	2.46	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Barium	**66.0**		1.93	1.35	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Beryllium	ND		0.386	0.239	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Cadmium	ND		0.386	0.201	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Chromium	**7.72**		0.965	0.719	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Cobalt	**4.73**		1.93	0.998	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Copper	**12.0**		1.93	1.31	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Lead	**9.49**		1.93	1.54	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Molybdenum	ND		3.86	1.94	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Nickel	**6.21**		1.93	1.09	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Selenium	ND		2.89	2.28	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Silver	ND		1.93	0.937	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Thallium	ND		9.65	5.15	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Vanadium	**21.0**		3.86	2.01	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2
Zinc	**37.7**		3.86	3.38	mg/Kg	☼	01/08/26 06:40	01/12/26 16:51	2

Method: SW846 6010D - Metals (ICP)

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		13.4	6.94	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Arsenic	**4.46**		4.01	3.41	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Barium	**187**		2.67	1.86	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Beryllium	**0.427**	**J**	0.534	0.331	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Cadmium	ND		0.534	0.278	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Chromium	**23.9**		1.34	0.995	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Cobalt	**12.6**		2.67	1.38	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Copper	**25.1**		2.67	1.82	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Lead	**4.33**		2.67	2.13	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Molybdenum	ND		5.34	2.68	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Nickel	**17.2**		2.67	1.50	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Selenium	ND		4.01	3.16	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Silver	ND		2.67	1.30	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Thallium	ND		13.4	7.12	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Vanadium	**52.4**		5.34	2.78	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2
Zinc	**77.3**		5.34	4.68	mg/Kg	☼	01/08/26 06:40	01/12/26 16:54	2

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.6	5.54	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Arsenic	**2.90**	**J**	3.19	2.72	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Barium	**104**		2.13	1.49	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Beryllium	ND		0.426	0.264	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Cadmium	ND		0.426	0.222	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Chromium	**13.2**		1.06	0.793	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Cobalt	**7.31**		2.13	1.10	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Copper	**12.1**		2.13	1.45	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Lead	**2.32**		2.13	1.70	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Molybdenum	ND		4.26	2.14	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Nickel	**9.31**		2.13	1.20	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Selenium	ND		3.19	2.52	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Silver	ND		2.13	1.03	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Thallium	ND		10.6	5.68	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Vanadium	**32.7**		4.26	2.22	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2
Zinc	**46.5**		4.26	3.73	mg/Kg	☼	01/08/26 06:40	01/12/26 16:56	2

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.0	5.74	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Arsenic	ND		3.31	2.82	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Barium	**76.6**		2.21	1.54	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Beryllium	ND		0.441	0.274	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Cadmium	ND		0.441	0.229	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Chromium	**9.75**		1.10	0.822	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Cobalt	**5.07**		2.21	1.14	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Copper	**7.79**		2.21	1.50	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2

Method: SW846 6010D - Metals (ICP) (Continued)

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.21	1.76	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Molybdenum	ND		4.41	2.22	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Nickel	**6.16**		2.21	1.24	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Selenium	ND		3.31	2.61	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Silver	ND		2.21	1.07	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Thallium	ND		11.0	5.88	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Vanadium	**26.0**		4.41	2.30	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2
Zinc	**32.6**		4.41	3.87	mg/Kg	☼	01/08/26 06:40	01/12/26 16:58	2

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.7	6.10	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Arsenic	**7.02**		3.52	2.99	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Barium	**168**		2.35	1.64	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Beryllium	**0.375**	**J**	0.469	0.291	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Cadmium	**1.10**		0.469	0.244	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Chromium	**37.8**		1.17	0.874	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Cobalt	**18.5**		2.35	1.21	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Copper	**39.8**		2.35	1.60	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Lead	**122**		2.35	1.87	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Molybdenum	ND		4.69	2.36	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Nickel	**18.7**		2.35	1.32	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Selenium	ND		3.52	2.78	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Silver	ND		2.35	1.14	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Thallium	ND		11.7	6.26	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Vanadium	**49.1**		4.69	2.45	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2
Zinc	**301**		4.69	4.12	mg/Kg	☼	01/08/26 06:40	01/12/26 17:01	2

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.96	5.18	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Arsenic	ND		2.99	2.54	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Barium	**69.2**		1.99	1.39	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Beryllium	ND		0.399	0.247	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Cadmium	ND		0.399	0.207	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Chromium	**10.2**		0.996	0.742	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Cobalt	**4.98**		1.99	1.03	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Copper	**7.63**		1.99	1.35	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Lead	**2.23**		1.99	1.59	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Molybdenum	ND		3.99	2.00	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Nickel	**5.50**		1.99	1.12	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Selenium	ND		2.99	2.36	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Silver	ND		1.99	0.967	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Thallium	ND		9.96	5.31	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Vanadium	**27.5**		3.99	2.08	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2
Zinc	**34.6**		3.99	3.49	mg/Kg	☼	01/08/26 06:40	01/12/26 17:03	2

Method: SW846 6010D - Metals (ICP)

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.6	5.51	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Arsenic	ND		3.18	2.71	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Barium	**187**		2.12	1.48	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Beryllium	**0.339**	**J**	0.424	0.263	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Cadmium	ND		0.424	0.221	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Chromium	**22.7**		1.06	0.790	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Cobalt	**12.7**		2.12	1.10	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Copper	**19.7**		2.12	1.44	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Lead	**3.84**		2.12	1.69	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Molybdenum	ND		4.24	2.13	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Nickel	**16.4**		2.12	1.19	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Selenium	ND		3.18	2.51	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Silver	ND		2.12	1.03	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Thallium	ND		10.6	5.66	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Vanadium	**50.3**		4.24	2.21	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2
Zinc	**75.4**		4.24	3.72	mg/Kg	☼	01/08/26 06:40	01/12/26 17:05	2

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.2	5.30	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Arsenic	**2.90**	**J**	3.06	2.60	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Barium	**197**		2.04	1.42	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Beryllium	**0.347**	**J**	0.408	0.253	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Cadmium	**0.367**	**J**	0.408	0.212	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Chromium	**26.4**		1.02	0.760	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Cobalt	**18.9**		2.04	1.05	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Copper	**23.6**		2.04	1.39	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Lead	**33.8**		2.04	1.63	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Molybdenum	ND		4.08	2.05	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Nickel	**15.5**		2.04	1.15	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Selenium	ND		3.06	2.41	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Silver	ND		2.04	0.991	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Thallium	ND		10.2	5.44	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Vanadium	**45.4**		4.08	2.13	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2
Zinc	**111**		4.08	3.58	mg/Kg	☼	01/08/26 06:40	01/12/26 17:08	2

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.4	5.93	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Arsenic	**3.04**	**J**	3.42	2.91	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Barium	**157**		2.28	1.59	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Beryllium	**0.297**	**J**	0.457	0.283	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Cadmium	ND		0.457	0.237	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Chromium	**21.4**		1.14	0.850	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Cobalt	**10.6**		2.28	1.18	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Copper	**23.2**		2.28	1.55	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2

Method: SW846 6010D - Metals (ICP) (Continued)

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10.5**		2.28	1.82	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Molybdenum	ND		4.57	2.29	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Nickel	**13.4**		2.28	1.29	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Selenium	ND		3.42	2.70	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Silver	ND		2.28	1.11	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Thallium	ND		11.4	6.09	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Vanadium	**46.1**		4.57	2.38	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2
Zinc	**66.1**		4.57	4.00	mg/Kg	☼	01/08/26 06:40	01/12/26 17:15	2

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.7	5.57	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Arsenic	**2.94**	**J**	3.22	2.74	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Barium	**153**		2.14	1.50	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Beryllium	**0.407**	**J**	0.429	0.266	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Cadmium	ND		0.429	0.223	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Chromium	**23.4**		1.07	0.799	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Cobalt	**10.2**		2.14	1.11	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Copper	**23.2**		2.14	1.46	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Lead	**6.93**		2.14	1.71	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Molybdenum	ND		4.29	2.16	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Nickel	**14.9**		2.14	1.21	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Selenium	ND		3.22	2.54	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Silver	ND		2.14	1.04	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Thallium	ND		10.7	5.72	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Vanadium	**48.1**		4.29	2.24	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2
Zinc	**65.7**		4.29	3.76	mg/Kg	☼	01/08/26 06:40	01/12/26 17:17	2

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.9	6.20	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Arsenic	**5.96**		3.58	3.04	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Barium	**165**		2.38	1.66	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Beryllium	**0.405**	**J**	0.477	0.296	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Cadmium	ND		0.477	0.248	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Chromium	**25.0**		1.19	0.888	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Cobalt	**11.2**		2.38	1.23	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Copper	**28.7**		2.38	1.62	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Lead	**17.4**		2.38	1.90	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Molybdenum	ND		4.77	2.40	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Nickel	**17.0**		2.38	1.34	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Selenium	ND		3.58	2.82	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Silver	ND		2.38	1.16	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Thallium	ND		11.9	6.36	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Vanadium	**50.7**		4.77	2.49	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2
Zinc	**81.5**		4.77	4.18	mg/Kg	☼	01/08/26 06:40	01/12/26 17:20	2

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: SW846 6010D - Metals (ICP)

Client Sample ID: SB8-3
Lab Sample ID: 570-262282-16
Date Collected: 01/07/26 14:00
Matrix: Solid
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.5	5.44	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Arsenic	**3.83**		3.14	2.67	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Barium	**149**		2.09	1.46	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Beryllium	**0.335**	**J**	0.418	0.259	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Cadmium	**0.314**	**J**	0.418	0.218	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Chromium	**25.2**		1.05	0.779	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Cobalt	**9.71**		2.09	1.08	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Copper	**36.6**		2.09	1.42	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Lead	**62.5**		2.09	1.67	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Molybdenum	ND		4.18	2.10	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Nickel	**16.3**		2.09	1.18	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Selenium	ND		3.14	2.48	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Silver	ND		2.09	1.02	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Thallium	ND		10.5	5.58	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Vanadium	**43.5**		4.18	2.18	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2
Zinc	**120**		4.18	3.67	mg/Kg	☼	01/08/26 06:40	01/12/26 17:22	2

Method: SW846 7471B - Mercury (CVAA)

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0586	J	0.101	0.0244	mg/Kg	☼	01/12/26 12:49	01/13/26 13:52	1

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.126		0.109	0.0263	mg/Kg	☼	01/12/26 12:49	01/13/26 16:20	1

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0375	J	0.104	0.0251	mg/Kg	☼	01/12/26 12:49	01/13/26 16:22	1

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0696	J	0.117	0.0284	mg/Kg	☼	01/12/26 12:49	01/13/26 16:24	1

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0257	J	0.0943	0.0228	mg/Kg	☼	01/12/26 12:49	01/13/26 16:26	1

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0766	J	0.114	0.0275	mg/Kg	☼	01/12/26 12:49	01/13/26 16:28	1

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0435	J	0.0979	0.0237	mg/Kg	☼	01/12/26 12:49	01/13/26 16:29	1

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0264	J	0.0868	0.0210	mg/Kg	☼	01/12/26 12:49	01/13/26 16:31	1

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.503		0.0939	0.0227	mg/Kg	☼	01/12/26 12:49	01/13/26 16:33	1

Method: SW846 7471B - Mercury (CVAA)

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0869	J	0.0918	0.0222	mg/Kg	☼	01/12/26 12:49	01/13/26 16:35	1

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0544	J	0.0953	0.0231	mg/Kg	☼	01/12/26 12:49	01/13/26 15:01	1

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.102		0.102	0.0247	mg/Kg	☼	01/12/26 12:49	01/13/26 15:03	1

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.166		0.0996	0.0241	mg/Kg	☼	01/12/26 12:49	01/13/26 15:04	1

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0812	J	0.100	0.0242	mg/Kg	☼	01/12/26 12:49	01/13/26 15:06	1

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0685	J	0.103	0.0248	mg/Kg	☼	01/12/26 12:49	01/13/26 15:08	1

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0808	J	0.0929	0.0225	mg/Kg	☼	01/12/26 12:49	01/13/26 15:10	1

General Chemistry

Client Sample ID: SB1-2 **Lab Sample ID: 570-262282-1**
Date Collected: 01/07/26 10:34 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.3		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB1-3 **Lab Sample ID: 570-262282-2**
Date Collected: 01/07/26 10:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	26.2		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB2-2 **Lab Sample ID: 570-262282-3**
Date Collected: 01/07/26 11:16 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB2-3 **Lab Sample ID: 570-262282-4**
Date Collected: 01/07/26 11:25 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	24.4		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB3-2 **Lab Sample ID: 570-262282-5**
Date Collected: 01/07/26 11:44 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.0		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB3-3 **Lab Sample ID: 570-262282-6**
Date Collected: 01/07/26 11:52 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	25.1		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB4-2 **Lab Sample ID: 570-262282-7**
Date Collected: 01/07/26 12:19 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.9		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB4-3 **Lab Sample ID: 570-262282-8**
Date Collected: 01/07/26 12:23 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.9		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB5-2 **Lab Sample ID: 570-262282-9**
Date Collected: 01/07/26 12:42 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.3		0.1	0.1	%			01/09/26 13:35	1

General Chemistry

Client Sample ID: SB5-3 **Lab Sample ID: 570-262282-10**
Date Collected: 01/07/26 12:53 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2		0.1	0.1	%			01/09/26 13:35	1

Client Sample ID: SB6-2 **Lab Sample ID: 570-262282-11**
Date Collected: 01/07/26 13:10 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.6		0.1	0.1	%			01/09/26 13:38	1

Client Sample ID: SB6-3 **Lab Sample ID: 570-262282-12**
Date Collected: 01/07/26 13:15 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.6		0.1	0.1	%			01/09/26 13:38	1

Client Sample ID: SB7-2 **Lab Sample ID: 570-262282-13**
Date Collected: 01/07/26 13:27 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.0		0.1	0.1	%			01/09/26 13:38	1

Client Sample ID: SB7-3 **Lab Sample ID: 570-262282-14**
Date Collected: 01/07/26 13:30 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.5		0.1	0.1	%			01/09/26 13:38	1

Client Sample ID: SB8-2 **Lab Sample ID: 570-262282-15**
Date Collected: 01/07/26 13:57 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	23.3		0.1	0.1	%			01/09/26 13:38	1

Client Sample ID: SB8-3 **Lab Sample ID: 570-262282-16**
Date Collected: 01/07/26 14:00 **Matrix: Solid**
Date Received: 01/07/26 15:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1	0.1	%			01/09/26 13:38	1

Surrogate Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-179)	(80-120)	(58-147)	(80-120)
570-262282-1	SB1-2	118	95	112	103
570-262282-2	SB1-3	117	98	113	104
570-262282-3	SB2-2	112	96	110	102
570-262282-4	SB2-3	115	93	111	102
570-262282-5	SB3-2	118	97	113	103
570-262282-6	SB3-3	118	106	113	104
570-262282-7	SB4-2	116	96	112	103
570-262282-8	SB4-3	117	97	113	102
570-262282-9	SB5-2	116	97	110	101
570-262282-10	SB5-3	112	94	110	102
570-262282-11	SB6-2	116	97	110	103
570-262282-12	SB6-3	116	97	108	102
570-262282-13	SB7-2	116	96	110	102
570-262282-14	SB7-3	117	99	111	102
570-262282-15	SB8-2	121	95	115	102
570-262282-16	SB8-3	121	99	114	102
LCS 570-679931/4	Lab Control Sample	112	98	108	101
LCSD 570-679931/5	Lab Control Sample Dup	107	99	109	102
MB 570-679931/6	Method Blank	112	103	107	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015C - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(29-160)
570-262282-1	SB1-2	92
570-262282-2	SB1-3	92
570-262282-3	SB2-2	106
570-262282-4	SB2-3	93
570-262282-5	SB3-2	92
570-262282-6	SB3-3	95
570-262282-7	SB4-2	92
570-262282-8	SB4-3	91
570-262282-9	SB5-2	95
570-262282-10	SB5-3	92
570-262282-11	SB6-2	89
570-262282-12	SB6-3	91
570-262282-13	SB7-2	86
570-262282-13 MS	SB7-2	76
570-262282-13 MSD	SB7-2	85
570-262282-14	SB7-3	82
570-262282-15	SB8-2	86
570-262282-16	SB8-3	87

Surrogate Summary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		OTCSN1								
Lab Sample ID	Client Sample ID	(29-160)								
LCS 570-680250/2-A	Lab Control Sample	94								
LCS 570-680251/2-A	Lab Control Sample	88								
LCSD 570-680250/3-A	Lab Control Sample Dup	99								
LCSD 570-680251/3-A	Lab Control Sample Dup	86								
MB 570-680250/1-A	Method Blank	94								
MB 570-680251/1-A	Method Blank	89								

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	TCX1							
Lab Sample ID	Client Sample ID	(20-120)	(25-120)							
570-262282-1	SB1-2	86	97							
570-262282-2	SB1-3	73	90							
570-262282-3	SB2-2	90	102							
570-262282-4	SB2-3	43	69							
570-262282-5	SB3-2	100	100							
570-262282-6	SB3-3	65	87							
570-262282-7	SB4-2	59	79							
570-262282-8	SB4-3	89	87							
570-262282-9	SB5-2	76	72							
570-262282-10	SB5-3	113	108							
570-262282-11	SB6-2	87	102							
570-262282-12	SB6-3	91	93							
570-262282-13	SB7-2	76	88							
570-262282-14	SB7-3	96	97							
570-262282-15	SB8-2	84	92							
570-262282-16	SB8-3	81	84							
LCS 570-681095/2-A	Lab Control Sample	106	104							
LCSD 570-681095/3-A	Lab Control Sample Dup	107	107							
MB 570-681095/1-A	Method Blank	110	109							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 570-679931/6
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg			01/08/26 10:24	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			01/08/26 10:24	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/Kg			01/08/26 10:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg			01/08/26 10:24	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg			01/08/26 10:24	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg			01/08/26 10:24	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg			01/08/26 10:24	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg			01/08/26 10:24	1
1,2,3-Trichlorobenzene	ND		2.0	0.38	ug/Kg			01/08/26 10:24	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg			01/08/26 10:24	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg			01/08/26 10:24	1
1,2,4-Trimethylbenzene	ND		2.0	0.28	ug/Kg			01/08/26 10:24	1
1,2-Dibromo-3-Chloropropane	ND		10	3.3	ug/Kg			01/08/26 10:24	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg			01/08/26 10:24	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg			01/08/26 10:24	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg			01/08/26 10:24	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg			01/08/26 10:24	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg			01/08/26 10:24	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg			01/08/26 10:24	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg			01/08/26 10:24	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg			01/08/26 10:24	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg			01/08/26 10:24	1
2-Butanone (MEK)	ND		20	4.5	ug/Kg			01/08/26 10:24	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg			01/08/26 10:24	1
2-Hexanone	ND		20	3.1	ug/Kg			01/08/26 10:24	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg			01/08/26 10:24	1
4-Methyl-2-pentanone (MIBK)	ND		20	2.9	ug/Kg			01/08/26 10:24	1
Acetone	ND		20	9.8	ug/Kg			01/08/26 10:24	1
Benzene	ND		1.0	0.26	ug/Kg			01/08/26 10:24	1
Bromobenzene	ND		1.0	0.21	ug/Kg			01/08/26 10:24	1
Bromochloromethane	ND		2.0	0.44	ug/Kg			01/08/26 10:24	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg			01/08/26 10:24	1
Bromoform	ND		5.0	1.3	ug/Kg			01/08/26 10:24	1
Bromomethane	ND		20	6.6	ug/Kg			01/08/26 10:24	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg			01/08/26 10:24	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg			01/08/26 10:24	1
Carbon disulfide	ND		10	0.40	ug/Kg			01/08/26 10:24	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg			01/08/26 10:24	1
Chlorobenzene	ND		1.0	0.27	ug/Kg			01/08/26 10:24	1
Chloroethane	ND		2.0	0.32	ug/Kg			01/08/26 10:24	1
Chloroform	ND		1.0	0.59	ug/Kg			01/08/26 10:24	1
Chloromethane	ND		20	1.5	ug/Kg			01/08/26 10:24	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg			01/08/26 10:24	1
Dibromomethane	ND		1.0	0.31	ug/Kg			01/08/26 10:24	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg			01/08/26 10:24	1
Di-isopropyl ether (DIPE)	ND		1.0	0.23	ug/Kg			01/08/26 10:24	1
Ethanol	ND		250	92	ug/Kg			01/08/26 10:24	1
Ethylbenzene	ND		1.0	0.21	ug/Kg			01/08/26 10:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 570-679931/6
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg			01/08/26 10:24	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg			01/08/26 10:24	1
Methylene Chloride	ND		10	3.1	ug/Kg			01/08/26 10:24	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg			01/08/26 10:24	1
Naphthalene	ND		10	3.9	ug/Kg			01/08/26 10:24	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg			01/08/26 10:24	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg			01/08/26 10:24	1
o-Xylene	ND		1.0	0.26	ug/Kg			01/08/26 10:24	1
m,p-Xylene	ND		2.0	0.47	ug/Kg			01/08/26 10:24	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg			01/08/26 10:24	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg			01/08/26 10:24	1
Styrene	ND		1.0	0.32	ug/Kg			01/08/26 10:24	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg			01/08/26 10:24	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg			01/08/26 10:24	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg			01/08/26 10:24	1
tert-Butyl alcohol (TBA)	ND		20	3.1	ug/Kg			01/08/26 10:24	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg			01/08/26 10:24	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg			01/08/26 10:24	1
Toluene	ND		1.0	0.27	ug/Kg			01/08/26 10:24	1
Trichloroethene	ND		2.0	0.39	ug/Kg			01/08/26 10:24	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg			01/08/26 10:24	1
Vinyl acetate	ND		10	3.9	ug/Kg			01/08/26 10:24	1
Vinyl chloride	ND		1.0	0.38	ug/Kg			01/08/26 10:24	1
Xylenes, Total	ND		2.0	0.60	ug/Kg			01/08/26 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 179*		*01/08/26 10:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/08/26 10:24*	*1*
Dibromofluoromethane (Surr)	*107*		*58 - 147*		*01/08/26 10:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/08/26 10:24*	*1*

Lab Sample ID: LCS 570-679931/4
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.83		ug/Kg		94	80 - 125
1,1,1-Trichloroethane	50.0	50.78		ug/Kg		102	78 - 130
1,1,2,2-Tetrachloroethane	50.0	45.96		ug/Kg		92	80 - 124
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.28		ug/Kg		91	73 - 130
1,1,2-Trichloroethane	50.0	50.27		ug/Kg		101	80 - 123
1,1-Dichloroethane	50.0	53.55		ug/Kg		107	79 - 124
1,1-Dichloroethene	50.0	47.50		ug/Kg		95	74 - 132
1,1-Dichloropropene	50.0	47.70		ug/Kg		95	78 - 130
1,2,3-Trichlorobenzene	50.0	50.17		ug/Kg		100	80 - 123
1,2,3-Trichloropropane	50.0	46.67		ug/Kg		93	79 - 120
1,2,4-Trichlorobenzene	50.0	52.00		ug/Kg		104	80 - 125
1,2,4-Trimethylbenzene	50.0	46.86		ug/Kg		94	80 - 124

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 570-679931/4
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	40.35		ug/Kg		81	67 - 120
1,2-Dibromoethane	50.0	48.18		ug/Kg		96	80 - 120
1,2-Dichlorobenzene	50.0	50.53		ug/Kg		101	80 - 120
1,2-Dichloroethane	50.0	54.63		ug/Kg		109	77 - 120
1,2-Dichloropropane	50.0	50.02		ug/Kg		100	80 - 126
1,3,5-Trimethylbenzene	50.0	45.10		ug/Kg		90	80 - 121
1,3-Dichlorobenzene	50.0	49.02		ug/Kg		98	80 - 120
1,3-Dichloropropane	50.0	50.63		ug/Kg		101	80 - 120
1,4-Dichlorobenzene	50.0	49.74		ug/Kg		99	80 - 120
2,2-Dichloropropane	50.0	48.07		ug/Kg		96	73 - 135
2-Butanone (MEK)	50.0	48.45		ug/Kg		97	67 - 136
2-Chlorotoluene	50.0	47.66		ug/Kg		95	80 - 120
2-Hexanone	50.0	44.03		ug/Kg		88	70 - 137
4-Chlorotoluene	50.0	48.38		ug/Kg		97	80 - 121
4-Methyl-2-pentanone (MIBK)	50.0	45.25		ug/Kg		91	74 - 124
Acetone	50.0	45.09		ug/Kg		90	61 - 142
Benzene	50.0	47.03		ug/Kg		94	80 - 120
Bromobenzene	50.0	50.78		ug/Kg		102	80 - 120
Bromochloromethane	50.0	52.30		ug/Kg		105	80 - 120
Bromodichloromethane	50.0	48.86		ug/Kg		98	80 - 125
Bromoform	50.0	45.12		ug/Kg		90	74 - 138
Bromomethane	50.0	48.41		ug/Kg		97	58 - 136
cis-1,2-Dichloroethene	50.0	48.70		ug/Kg		97	80 - 124
cis-1,3-Dichloropropene	50.0	50.49		ug/Kg		101	80 - 123
Carbon disulfide	50.0	46.85		ug/Kg		94	68 - 128
Carbon tetrachloride	50.0	46.23		ug/Kg		92	75 - 140
Chlorobenzene	50.0	47.94		ug/Kg		96	80 - 120
Chloroethane	50.0	46.33		ug/Kg		93	76 - 137
Chloroform	50.0	51.11		ug/Kg		102	80 - 121
Chloromethane	50.0	42.04		ug/Kg		84	74 - 133
Dibromochloromethane	50.0	47.83		ug/Kg		96	80 - 132
Dibromomethane	50.0	52.42		ug/Kg		105	80 - 120
Dichlorodifluoromethane	50.0	47.04		ug/Kg		94	63 - 146
Di-isopropyl ether (DIPE)	50.0	57.86		ug/Kg		116	73 - 132
Ethanol	500	461.1		ug/Kg		92	46 - 159
Ethylbenzene	50.0	46.52		ug/Kg		93	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	55.62		ug/Kg		111	77 - 129
Isopropylbenzene	50.0	46.14		ug/Kg		92	80 - 122
Methylene Chloride	50.0	49.99		ug/Kg		100	74 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	53.11		ug/Kg		106	79 - 123
Naphthalene	50.0	45.38		ug/Kg		91	79 - 121
n-Butylbenzene	50.0	46.62		ug/Kg		93	79 - 131
N-Propylbenzene	50.0	46.63		ug/Kg		93	80 - 122
o-Xylene	50.0	46.75		ug/Kg		93	80 - 120
m,p-Xylene	100	92.29		ug/Kg		92	80 - 120
p-Isopropyltoluene	50.0	45.34		ug/Kg		91	80 - 126
sec-Butylbenzene	50.0	44.76		ug/Kg		90	80 - 125
Styrene	50.0	47.56		ug/Kg		95	80 - 120
trans-1,2-Dichloroethene	50.0	46.87		ug/Kg		94	75 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 570-679931/4
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
trans-1,3-Dichloropropene			50.0	50.21		ug/Kg		100	80 - 124		
Tert-amyl-methyl ether (TAME)			50.0	51.28		ug/Kg		103	80 - 120		
tert-Butyl alcohol (TBA)			250	252.4		ug/Kg		101	74 - 123		
tert-Butylbenzene			50.0	44.30		ug/Kg		89	80 - 124		
Tetrachloroethene			50.0	44.67		ug/Kg		89	80 - 122		
Toluene			50.0	48.21		ug/Kg		96	80 - 120		
Trichloroethene			50.0	47.93		ug/Kg		96	80 - 127		
Trichlorofluoromethane			50.0	42.83		ug/Kg		86	70 - 144		
Vinyl acetate			50.0	59.00		ug/Kg		118	71 - 125		
Vinyl chloride			50.0	44.69		ug/Kg		89	79 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 179*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*58 - 147*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 570-679931/5
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	47.39		ug/Kg		95	80 - 125	1	20
1,1,1-Trichloroethane			50.0	50.48		ug/Kg		101	78 - 130	1	20
1,1,2,2-Tetrachloroethane			50.0	46.72		ug/Kg		93	80 - 124	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	43.82		ug/Kg		88	73 - 130	3	20
1,1,2-Trichloroethane			50.0	49.90		ug/Kg		100	80 - 123	1	20
1,1-Dichloroethane			50.0	53.21		ug/Kg		106	79 - 124	1	20
1,1-Dichloroethene			50.0	44.39		ug/Kg		89	74 - 132	7	20
1,1-Dichloropropene			50.0	50.85		ug/Kg		102	78 - 130	6	20
1,2,3-Trichlorobenzene			50.0	49.25		ug/Kg		98	80 - 123	2	20
1,2,3-Trichloropropane			50.0	47.36		ug/Kg		95	79 - 120	1	20
1,2,4-Trichlorobenzene			50.0	50.16		ug/Kg		100	80 - 125	4	20
1,2,4-Trimethylbenzene			50.0	45.87		ug/Kg		92	80 - 124	2	20
1,2-Dibromo-3-Chloropropane			50.0	41.97		ug/Kg		84	67 - 120	4	20
1,2-Dibromoethane			50.0	49.86		ug/Kg		100	80 - 120	3	20
1,2-Dichlorobenzene			50.0	49.38		ug/Kg		99	80 - 120	2	20
1,2-Dichloroethane			50.0	50.49		ug/Kg		101	77 - 120	8	20
1,2-Dichloropropane			50.0	49.83		ug/Kg		100	80 - 126	0	20
1,3,5-Trimethylbenzene			50.0	44.78		ug/Kg		90	80 - 121	1	20
1,3-Dichlorobenzene			50.0	48.16		ug/Kg		96	80 - 120	2	20
1,3-Dichloropropane			50.0	51.50		ug/Kg		103	80 - 120	2	20
1,4-Dichlorobenzene			50.0	48.16		ug/Kg		96	80 - 120	3	20
2,2-Dichloropropane			50.0	48.83		ug/Kg		98	73 - 135	2	20
2-Butanone (MEK)			50.0	52.05		ug/Kg		104	67 - 136	7	20
2-Chlorotoluene			50.0	46.87		ug/Kg		94	80 - 120	2	20
2-Hexanone			50.0	47.97		ug/Kg		96	70 - 137	9	20
4-Chlorotoluene			50.0	46.42		ug/Kg		93	80 - 121	4	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-679931/5
Matrix: Solid
Analysis Batch: 679931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			50.0	48.91		ug/Kg		98	74 - 124	8	20
Acetone			50.0	42.10		ug/Kg		84	61 - 142	7	23
Benzene			50.0	47.96		ug/Kg		96	80 - 120	2	20
Bromobenzene			50.0	50.87		ug/Kg		102	80 - 120	0	20
Bromochloromethane			50.0	53.76		ug/Kg		108	80 - 120	3	20
Bromodichloromethane			50.0	48.18		ug/Kg		96	80 - 125	1	20
Bromoform			50.0	46.18		ug/Kg		92	74 - 138	2	20
Bromomethane			50.0	50.92		ug/Kg		102	58 - 136	5	20
cis-1,2-Dichloroethene			50.0	51.24		ug/Kg		102	80 - 124	5	20
cis-1,3-Dichloropropene			50.0	52.49		ug/Kg		105	80 - 123	4	20
Carbon disulfide			50.0	49.45		ug/Kg		99	68 - 128	5	20
Carbon tetrachloride			50.0	46.32		ug/Kg		93	75 - 140	0	20
Chlorobenzene			50.0	47.79		ug/Kg		96	80 - 120	0	20
Chloroethane			50.0	47.39		ug/Kg		95	76 - 137	2	20
Chloroform			50.0	51.05		ug/Kg		102	80 - 121	0	20
Chloromethane			50.0	43.47		ug/Kg		87	74 - 133	3	20
Dibromochloromethane			50.0	48.06		ug/Kg		96	80 - 132	0	20
Dibromomethane			50.0	52.85		ug/Kg		106	80 - 120	1	20
Dichlorodifluoromethane			50.0	48.86		ug/Kg		98	63 - 146	4	20
Di-isopropyl ether (DIPE)			50.0	54.82		ug/Kg		110	73 - 132	5	20
Ethanol			500	464.6		ug/Kg		93	46 - 159	1	30
Ethylbenzene			50.0	46.35		ug/Kg		93	80 - 120	0	20
Ethyl-t-butyl ether (ETBE)			50.0	54.58		ug/Kg		109	77 - 129	2	20
Isopropylbenzene			50.0	46.45		ug/Kg		93	80 - 122	1	20
Methylene Chloride			50.0	52.54		ug/Kg		105	74 - 120	5	20
Methyl-t-Butyl Ether (MTBE)			50.0	55.68		ug/Kg		111	79 - 123	5	20
Naphthalene			50.0	46.18		ug/Kg		92	79 - 121	2	20
n-Butylbenzene			50.0	45.04		ug/Kg		90	79 - 131	3	20
N-Propylbenzene			50.0	46.12		ug/Kg		92	80 - 122	1	20
o-Xylene			50.0	46.25		ug/Kg		93	80 - 120	1	20
m,p-Xylene			100	91.84		ug/Kg		92	80 - 120	0	20
p-Isopropyltoluene			50.0	44.11		ug/Kg		88	80 - 126	3	20
sec-Butylbenzene			50.0	44.15		ug/Kg		88	80 - 125	1	20
Styrene			50.0	47.42		ug/Kg		95	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	49.51		ug/Kg		99	75 - 123	5	20
trans-1,3-Dichloropropene			50.0	50.56		ug/Kg		101	80 - 124	1	20
Tert-amyl-methyl ether (TAME)			50.0	53.09		ug/Kg		106	80 - 120	3	20
tert-Butyl alcohol (TBA)			250	238.1		ug/Kg		95	74 - 123	6	20
tert-Butylbenzene			50.0	43.49		ug/Kg		87	80 - 124	2	20
Tetrachloroethene			50.0	45.34		ug/Kg		91	80 - 122	1	20
Toluene			50.0	49.06		ug/Kg		98	80 - 120	2	20
Trichloroethene			50.0	47.42		ug/Kg		95	80 - 127	1	20
Trichlorofluoromethane			50.0	44.92		ug/Kg		90	70 - 144	5	20
Vinyl acetate			50.0	62.96	*+ me	ug/Kg		126	71 - 125	7	20
Vinyl chloride			50.0	45.77		ug/Kg		92	79 - 133	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*32 - 179*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-679931/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 679931

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*58 - 147*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-680250/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 680430 **Prep Batch: 680250**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C7	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C8	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C9-C10	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C11-C12	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C13-C14	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C15-C16	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C17-C18	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C19-C20	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C21-C22	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C23-C24	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C25-C28	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C29-C32	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C33-C36	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C37-C40	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C41-C44	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
C6-C44	ND		25	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1
Diesel Range Organics [C10-C28]	ND		5.0	4.4	mg/Kg		01/08/26 15:37	01/09/26 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	*94*		*29 - 160*	*01/08/26 15:37*	*01/09/26 10:00*	*1*

Lab Sample ID: LCS 570-680250/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 680430 **Prep Batch: 680250**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	437.8		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	*94*		*29 - 160*

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 570-680250/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680430
Prep Batch: 680250

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	464.4		mg/Kg		116	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*99*		*29 - 160*

Lab Sample ID: MB 570-680251/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680480
Prep Batch: 680251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C7	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C8	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C9-C10	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C11-C12	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C13-C14	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C15-C16	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C17-C18	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C19-C20	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C21-C22	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C23-C24	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C25-C28	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C29-C32	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C33-C36	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C37-C40	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C41-C44	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
C6-C44	ND		25	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1
Diesel Range Organics [C10-C28]	ND		5.0	4.4	mg/Kg		01/08/26 15:40	01/09/26 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*89*		*29 - 160*	*01/08/26 15:40*	*01/09/26 11:00*	*1*

Lab Sample ID: LCS 570-680251/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680480
Prep Batch: 680251

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	414.2		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*88*		*29 - 160*

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 570-680251/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680480
Prep Batch: 680251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	415.4		mg/Kg		104	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*86*		*29 - 160*

Lab Sample ID: 570-262282-13 MS
Client Sample ID: SB7-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680480
Prep Batch: 680251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		444	477.1		mg/Kg	☼	108	43 - 165

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*76*		*29 - 160*

Lab Sample ID: 570-262282-13 MSD
Client Sample ID: SB7-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680480
Prep Batch: 680251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		443	472.6		mg/Kg	☼	107	43 - 165	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*85*		*29 - 160*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-681095/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681303
Prep Batch: 681095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1221	ND		50	39	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1232	ND		50	39	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1242	ND		50	39	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1248	ND		50	39	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1254	ND		50	25	ug/Kg		01/11/26 18:36	01/13/26 00:48	1
Aroclor-1260	ND		50	25	ug/Kg		01/11/26 18:36	01/13/26 00:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*110*		*20 - 120*	*01/11/26 18:36*	*01/13/26 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*25 - 120*	*01/11/26 18:36*	*01/13/26 00:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 570-681095/2-A
Matrix: Solid
Analysis Batch: 681303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	102.9		ug/Kg		103	53 - 133		
Aroclor-1260			100	114.2		ug/Kg		114	39 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*106*		*20 - 120*
Tetrachloro-m-xylene (Surr)	*104*		*25 - 120*

Lab Sample ID: LCSD 570-681095/3-A
Matrix: Solid
Analysis Batch: 681303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 681095

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	105.9		ug/Kg		106	53 - 133	3	32
Aroclor-1260			100	112.7		ug/Kg		113	39 - 140	1	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*107*		*20 - 120*
Tetrachloro-m-xylene (Surr)	*107*		*25 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 570-679928/1-A
Matrix: Solid
Analysis Batch: 681485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 679928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.93	5.16	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Arsenic	ND		2.98	2.53	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Barium	ND		1.99	1.39	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Beryllium	ND		0.397	0.246	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Cadmium	ND		0.397	0.207	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Chromium	ND		0.993	0.740	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Cobalt	ND		1.99	1.03	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Copper	ND		1.99	1.35	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Lead	ND		1.99	1.59	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Molybdenum	ND		3.97	2.00	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Nickel	ND		1.99	1.12	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Selenium	ND		2.98	2.35	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Silver	ND		1.99	0.964	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Thallium	ND		9.93	5.30	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Vanadium	ND		3.97	2.07	mg/Kg		01/08/26 06:40	01/12/26 15:51	2
Zinc	ND		3.97	3.48	mg/Kg		01/08/26 06:40	01/12/26 15:51	2

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-679928/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681485
Prep Batch: 679928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	199	193.9		mg/Kg		97	80 - 120
Arsenic	199	192.5		mg/Kg		96	80 - 120
Barium	199	202.9		mg/Kg		102	80 - 120
Beryllium	199	195.8		mg/Kg		98	80 - 120
Cadmium	199	194.4		mg/Kg		97	80 - 120
Chromium	199	201.5		mg/Kg		101	80 - 120
Cobalt	199	200.5		mg/Kg		100	80 - 120
Copper	199	200.9		mg/Kg		101	80 - 120
Lead	199	199.1		mg/Kg		100	80 - 120
Molybdenum	199	228.2		mg/Kg		114	80 - 120
Nickel	199	198.6		mg/Kg		100	80 - 120
Selenium	199	165.0		mg/Kg		83	80 - 120
Silver	99.7	98.90		mg/Kg		99	80 - 120
Thallium	199	195.7		mg/Kg		98	80 - 120
Vanadium	199	204.1		mg/Kg		102	80 - 120
Zinc	199	191.3		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 570-679928/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681485
Prep Batch: 679928

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	195	190.9		mg/Kg		98	80 - 120	2	20
Arsenic	195	187.5		mg/Kg		96	80 - 120	3	20
Barium	195	197.9		mg/Kg		101	80 - 120	2	20
Beryllium	195	191.3		mg/Kg		98	80 - 120	2	20
Cadmium	195	189.7		mg/Kg		97	80 - 120	2	20
Chromium	195	197.1		mg/Kg		101	80 - 120	2	20
Cobalt	195	195.7		mg/Kg		100	80 - 120	2	20
Copper	195	195.9		mg/Kg		100	80 - 120	2	20
Lead	195	194.8		mg/Kg		100	80 - 120	2	20
Molybdenum	195	224.8		mg/Kg		115	80 - 120	2	20
Nickel	195	193.6		mg/Kg		99	80 - 120	3	20
Selenium	195	160.9		mg/Kg		83	80 - 120	2	20
Silver	97.5	96.45		mg/Kg		99	80 - 120	3	20
Thallium	195	192.1		mg/Kg		99	80 - 120	2	20
Vanadium	195	199.5		mg/Kg		102	80 - 120	2	20
Zinc	195	186.7		mg/Kg		96	80 - 120	2	20

Lab Sample ID: 570-262282-1 MS
Client Sample ID: SB1-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681485
Prep Batch: 679928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		220	205.9		mg/Kg	☼	94	75 - 125
Arsenic	ND		220	213.9		mg/Kg	☼	97	75 - 125
Barium	94.9	F2 F1	220	392.3	F1	mg/Kg	☼	135	75 - 125
Beryllium	ND		220	217.3		mg/Kg	☼	99	75 - 125
Cadmium	ND		220	212.6		mg/Kg	☼	97	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 570-262282-1 MS
Matrix: Solid
Analysis Batch: 681485

Client Sample ID: SB1-2
Prep Type: Total/NA
Prep Batch: 679928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	10.7		220	238.4		mg/Kg	☼	103	75 - 125
Cobalt	5.94		220	226.3		mg/Kg	☼	100	75 - 125
Copper	8.27		220	244.3		mg/Kg	☼	107	75 - 125
Lead	ND		220	219.0		mg/Kg	☼	99	75 - 125
Molybdenum	ND		220	250.1		mg/Kg	☼	114	75 - 125
Nickel	7.22		220	227.2		mg/Kg	☼	100	75 - 125
Selenium	ND		220	187.3		mg/Kg	☼	85	75 - 125
Silver	ND		110	111.1		mg/Kg	☼	101	75 - 125
Thallium	ND		220	212.2		mg/Kg	☼	96	75 - 125
Vanadium	28.8		220	274.5		mg/Kg	☼	112	75 - 125
Zinc	37.0		220	273.0		mg/Kg	☼	107	75 - 125

Lab Sample ID: 570-262282-1 MSD
Matrix: Solid
Analysis Batch: 681485

Client Sample ID: SB1-2
Prep Type: Total/NA
Prep Batch: 679928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		220	212.0		mg/Kg	☼	96	75 - 125	3	20
Arsenic	ND		220	216.0		mg/Kg	☼	98	75 - 125	1	20
Barium	94.9	F2 F1	220	316.6	F2	mg/Kg	☼	101	75 - 125	21	20
Beryllium	ND		220	218.7		mg/Kg	☼	100	75 - 125	1	20
Cadmium	ND		220	215.1		mg/Kg	☼	98	75 - 125	1	20
Chromium	10.7		220	234.6		mg/Kg	☼	102	75 - 125	2	20
Cobalt	5.94		220	224.2		mg/Kg	☼	99	75 - 125	1	20
Copper	8.27		220	236.3		mg/Kg	☼	104	75 - 125	3	20
Lead	ND		220	219.8		mg/Kg	☼	100	75 - 125	0	20
Molybdenum	ND		220	253.7		mg/Kg	☼	115	75 - 125	1	20
Nickel	7.22		220	222.5		mg/Kg	☼	98	75 - 125	2	20
Selenium	ND		220	187.5		mg/Kg	☼	85	75 - 125	0	20
Silver	ND		110	111.3		mg/Kg	☼	101	75 - 125	0	20
Thallium	ND		220	213.7		mg/Kg	☼	97	75 - 125	1	20
Vanadium	28.8		220	254.8		mg/Kg	☼	103	75 - 125	7	20
Zinc	37.0		220	247.1		mg/Kg	☼	96	75 - 125	10	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 570-681383/1-A
Matrix: Solid
Analysis Batch: 681844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 681383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0198	mg/Kg		01/12/26 12:49	01/13/26 13:46	1

Lab Sample ID: LCS 570-681383/2-A
Matrix: Solid
Analysis Batch: 681844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.417	0.3958		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-681383/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681844
Prep Batch: 681383

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.385	0.4312		mg/Kg		112	80 - 120	9	20

Lab Sample ID: 570-262282-1 MS
Client Sample ID: SB1-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681844
Prep Batch: 681383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.0586	J	0.447	0.5726		mg/Kg	☼	115	80 - 120		

Lab Sample ID: 570-262282-1 MSD
Client Sample ID: SB1-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 681844
Prep Batch: 681383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0586	J	0.430	0.5253		mg/Kg	☼	108	80 - 120	9	20

Method: Moisture - Percent Moisture

Lab Sample ID: 570-262282-1 DU
Client Sample ID: SB1-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680707

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.3		10.2	F3	%		19	10

Lab Sample ID: 570-262282-11 DU
Client Sample ID: SB6-2
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680708

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.6		12.6		%		0	10

Lab Sample ID: 570-262282-16 DU
Client Sample ID: SB8-3
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 680708

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.4		16.0		%		4	10

Marginal Exceedance (ME) Summary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 570-679931/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	50.0	47.39		ug/Kg	95	80 - 125	73 - 133	
1,1,1-Trichloroethane	50.0	50.48		ug/Kg	101	78 - 130	69 - 139	
1,1,2,2-Tetrachloroethane	50.0	46.72		ug/Kg	93	80 - 124	73 - 131	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.82		ug/Kg	88	73 - 130	64 - 140	
1,1,2-Trichloroethane	50.0	49.90		ug/Kg	100	80 - 123	73 - 130	
1,1-Dichloroethane	50.0	53.21		ug/Kg	106	79 - 124	72 - 132	
1,1-Dichloroethene	50.0	44.39		ug/Kg	89	74 - 132	64 - 142	
1,1-Dichloropropene	50.0	50.85		ug/Kg	102	78 - 130	69 - 139	
1,2,3-Trichlorobenzene	50.0	49.25		ug/Kg	98	80 - 123	73 - 130	
1,2,3-Trichloropropane	50.0	47.36		ug/Kg	95	79 - 120	72 - 127	
1,2,4-Trichlorobenzene	50.0	50.16		ug/Kg	100	80 - 125	73 - 133	
1,2,4-Trimethylbenzene	50.0	45.87		ug/Kg	92	80 - 124	73 - 131	
1,2-Dibromo-3-Chloropropane	50.0	41.97		ug/Kg	84	67 - 120	58 - 129	
1,2-Dibromoethane	50.0	49.86		ug/Kg	100	80 - 120	73 - 127	
1,2-Dichlorobenzene	50.0	49.38		ug/Kg	99	80 - 120	73 - 127	
1,2-Dichloroethane	50.0	50.49		ug/Kg	101	77 - 120	70 - 127	
1,2-Dichloropropane	50.0	49.83		ug/Kg	100	80 - 126	72 - 134	
1,3,5-Trimethylbenzene	50.0	44.78		ug/Kg	90	80 - 121	73 - 128	
1,3-Dichlorobenzene	50.0	48.16		ug/Kg	96	80 - 120	73 - 127	
1,3-Dichloropropane	50.0	51.50		ug/Kg	103	80 - 120	73 - 127	
1,4-Dichlorobenzene	50.0	48.16		ug/Kg	96	80 - 120	73 - 127	
2,2-Dichloropropane	50.0	48.83		ug/Kg	98	73 - 135	63 - 145	
2-Butanone (MEK)	50.0	52.05		ug/Kg	104	67 - 136	56 - 148	
2-Chlorotoluene	50.0	46.87		ug/Kg	94	80 - 120	73 - 127	
2-Hexanone	50.0	47.97		ug/Kg	96	70 - 137	59 - 148	
4-Chlorotoluene	50.0	46.42		ug/Kg	93	80 - 121	73 - 128	
4-Methyl-2-pentanone (MIBK)	50.0	48.91		ug/Kg	98	74 - 124	66 - 132	
Acetone	50.0	42.10		ug/Kg	84	61 - 142	48 - 156	
Benzene	50.0	47.96		ug/Kg	96	80 - 120	73 - 127	
Bromobenzene	50.0	50.87		ug/Kg	102	80 - 120	73 - 127	
Bromochloromethane	50.0	53.76		ug/Kg	108	80 - 120	73 - 127	
Bromodichloromethane	50.0	48.18		ug/Kg	96	80 - 125	73 - 133	
Bromoform	50.0	46.18		ug/Kg	92	74 - 138	63 - 149	
Bromomethane	50.0	50.92		ug/Kg	102	58 - 136	45 - 149	
cis-1,2-Dichloroethene	50.0	51.24		ug/Kg	102	80 - 124	73 - 131	
cis-1,3-Dichloropropene	50.0	52.49		ug/Kg	105	80 - 123	73 - 130	
Carbon disulfide	50.0	49.45		ug/Kg	99	68 - 128	58 - 138	
Carbon tetrachloride	50.0	46.32		ug/Kg	93	75 - 140	64 - 151	
Chlorobenzene	50.0	47.79		ug/Kg	96	80 - 120	73 - 127	
Chloroethane	50.0	47.39		ug/Kg	95	76 - 137	66 - 147	
Chloroform	50.0	51.05		ug/Kg	102	80 - 121	73 - 128	
Chloromethane	50.0	43.47		ug/Kg	87	74 - 133	64 - 143	
Dibromochloromethane	50.0	48.06		ug/Kg	96	80 - 132	71 - 141	
Dibromomethane	50.0	52.85		ug/Kg	106	80 - 120	73 - 127	
Dichlorodifluoromethane	50.0	48.86		ug/Kg	98	63 - 146	49 - 160	
Di-isopropyl ether (DIPE)	50.0	54.82		ug/Kg	110	73 - 132	63 - 142	
Ethanol	500	464.6		ug/Kg	93	46 - 159	27 - 178	
Ethylbenzene	50.0	46.35		ug/Kg	93	80 - 120	73 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	54.58		ug/Kg	109	77 - 129	68 - 138	

Marginal Exceedance (ME) Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-679931/5
Matrix: Solid

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Isopropylbenzene	50.0	46.45		ug/Kg	93	80 - 122	73 - 129	
Methylene Chloride	50.0	52.54		ug/Kg	105	74 - 120	66 - 128	
Methyl-t-Butyl Ether (MTBE)	50.0	55.68		ug/Kg	111	79 - 123	72 - 130	
Naphthalene	50.0	46.18		ug/Kg	92	79 - 121	72 - 128	
n-Butylbenzene	50.0	45.04		ug/Kg	90	79 - 131	70 - 140	
N-Propylbenzene	50.0	46.12		ug/Kg	92	80 - 122	73 - 129	
o-Xylene	50.0	46.25		ug/Kg	93	80 - 120	73 - 127	
m,p-Xylene	100	91.84		ug/Kg	92	80 - 120	73 - 127	
p-Isopropyltoluene	50.0	44.11		ug/Kg	88	80 - 126	72 - 134	
sec-Butylbenzene	50.0	44.15		ug/Kg	88	80 - 125	73 - 133	
Styrene	50.0	47.42		ug/Kg	95	80 - 120	73 - 127	
trans-1,2-Dichloroethene	50.0	49.51		ug/Kg	99	75 - 123	67 - 131	
trans-1,3-Dichloropropene	50.0	50.56		ug/Kg	101	80 - 124	73 - 131	
Tert-amyl-methyl ether (TAME)	50.0	53.09		ug/Kg	106	80 - 120	73 - 127	
tert-Butyl alcohol (TBA)	250	238.1		ug/Kg	95	74 - 123	66 - 131	
tert-Butylbenzene	50.0	43.49		ug/Kg	87	80 - 124	73 - 131	
Tetrachloroethene	50.0	45.34		ug/Kg	91	80 - 122	73 - 129	
Toluene	50.0	49.06		ug/Kg	98	80 - 120	73 - 127	
Trichloroethene	50.0	47.42		ug/Kg	95	80 - 127	72 - 135	
Trichlorofluoromethane	50.0	44.92		ug/Kg	90	70 - 144	58 - 156	
Vinyl acetate	50.0	62.96	*+ me	ug/Kg	126	71 - 125	62 - 134	ME
Vinyl chloride	50.0	45.77		ug/Kg	92	79 - 133	70 - 142	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
71	4	1

ME = Marginal Exceedance

GC/MS VOA

Analysis Batch: 679931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	8260D	680057
570-262282-2	SB1-3	Total/NA	Solid	8260D	680057
570-262282-3	SB2-2	Total/NA	Solid	8260D	680057
570-262282-4	SB2-3	Total/NA	Solid	8260D	680057
570-262282-5	SB3-2	Total/NA	Solid	8260D	680057
570-262282-6	SB3-3	Total/NA	Solid	8260D	680057
570-262282-7	SB4-2	Total/NA	Solid	8260D	680057
570-262282-8	SB4-3	Total/NA	Solid	8260D	680057
570-262282-9	SB5-2	Total/NA	Solid	8260D	680057
570-262282-10	SB5-3	Total/NA	Solid	8260D	680057
570-262282-11	SB6-2	Total/NA	Solid	8260D	680057
570-262282-12	SB6-3	Total/NA	Solid	8260D	680057
570-262282-13	SB7-2	Total/NA	Solid	8260D	680057
570-262282-14	SB7-3	Total/NA	Solid	8260D	680057
570-262282-15	SB8-2	Total/NA	Solid	8260D	680057
570-262282-16	SB8-3	Total/NA	Solid	8260D	680057
MB 570-679931/6	Method Blank	Total/NA	Solid	8260D	
LCS 570-679931/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 570-679931/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 680057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	5035	
570-262282-2	SB1-3	Total/NA	Solid	5035	
570-262282-3	SB2-2	Total/NA	Solid	5035	
570-262282-4	SB2-3	Total/NA	Solid	5035	
570-262282-5	SB3-2	Total/NA	Solid	5035	
570-262282-6	SB3-3	Total/NA	Solid	5035	
570-262282-7	SB4-2	Total/NA	Solid	5035	
570-262282-8	SB4-3	Total/NA	Solid	5035	
570-262282-9	SB5-2	Total/NA	Solid	5035	
570-262282-10	SB5-3	Total/NA	Solid	5035	
570-262282-11	SB6-2	Total/NA	Solid	5035	
570-262282-12	SB6-3	Total/NA	Solid	5035	
570-262282-13	SB7-2	Total/NA	Solid	5035	
570-262282-14	SB7-3	Total/NA	Solid	5035	
570-262282-15	SB8-2	Total/NA	Solid	5035	
570-262282-16	SB8-3	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 680250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	Rotary Shaker	
570-262282-2	SB1-3	Total/NA	Solid	Rotary Shaker	
570-262282-3	SB2-2	Total/NA	Solid	Rotary Shaker	
570-262282-4	SB2-3	Total/NA	Solid	Rotary Shaker	
570-262282-5	SB3-2	Total/NA	Solid	Rotary Shaker	
570-262282-6	SB3-3	Total/NA	Solid	Rotary Shaker	
570-262282-7	SB4-2	Total/NA	Solid	Rotary Shaker	
570-262282-8	SB4-3	Total/NA	Solid	Rotary Shaker	

GC Semi VOA (Continued)

Prep Batch: 680250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	Total/NA	Solid	Rotary Shaker	
570-262282-10	SB5-3	Total/NA	Solid	Rotary Shaker	
570-262282-11	SB6-2	Total/NA	Solid	Rotary Shaker	
570-262282-12	SB6-3	Total/NA	Solid	Rotary Shaker	
MB 570-680250/1-A	Method Blank	Total/NA	Solid	Rotary Shaker	
LCS 570-680250/2-A	Lab Control Sample	Total/NA	Solid	Rotary Shaker	
LCSD 570-680250/3-A	Lab Control Sample Dup	Total/NA	Solid	Rotary Shaker	

Prep Batch: 680251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-13	SB7-2	Total/NA	Solid	Rotary Shaker	
570-262282-14	SB7-3	Total/NA	Solid	Rotary Shaker	
570-262282-15	SB8-2	Total/NA	Solid	Rotary Shaker	
570-262282-16	SB8-3	Total/NA	Solid	Rotary Shaker	
MB 570-680251/1-A	Method Blank	Total/NA	Solid	Rotary Shaker	
LCS 570-680251/2-A	Lab Control Sample	Total/NA	Solid	Rotary Shaker	
LCSD 570-680251/3-A	Lab Control Sample Dup	Total/NA	Solid	Rotary Shaker	
570-262282-13 MS	SB7-2	Total/NA	Solid	Rotary Shaker	
570-262282-13 MSD	SB7-2	Total/NA	Solid	Rotary Shaker	

Analysis Batch: 680430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	8015C	680250
570-262282-2	SB1-3	Total/NA	Solid	8015C	680250
570-262282-3	SB2-2	Total/NA	Solid	8015C	680250
570-262282-4	SB2-3	Total/NA	Solid	8015C	680250
570-262282-5	SB3-2	Total/NA	Solid	8015C	680250
570-262282-6	SB3-3	Total/NA	Solid	8015C	680250
570-262282-7	SB4-2	Total/NA	Solid	8015C	680250
570-262282-8	SB4-3	Total/NA	Solid	8015C	680250
570-262282-9	SB5-2	Total/NA	Solid	8015C	680250
570-262282-10	SB5-3	Total/NA	Solid	8015C	680250
570-262282-11	SB6-2	Total/NA	Solid	8015C	680250
570-262282-12	SB6-3	Total/NA	Solid	8015C	680250
MB 570-680250/1-A	Method Blank	Total/NA	Solid	8015C	680250
LCS 570-680250/2-A	Lab Control Sample	Total/NA	Solid	8015C	680250
LCSD 570-680250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015C	680250

Analysis Batch: 680480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-13	SB7-2	Total/NA	Solid	8015C	680251
570-262282-14	SB7-3	Total/NA	Solid	8015C	680251
570-262282-15	SB8-2	Total/NA	Solid	8015C	680251
570-262282-16	SB8-3	Total/NA	Solid	8015C	680251
MB 570-680251/1-A	Method Blank	Total/NA	Solid	8015C	680251
LCS 570-680251/2-A	Lab Control Sample	Total/NA	Solid	8015C	680251
LCSD 570-680251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015C	680251
570-262282-13 MS	SB7-2	Total/NA	Solid	8015C	680251
570-262282-13 MSD	SB7-2	Total/NA	Solid	8015C	680251

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

GC Semi VOA

Prep Batch: 681095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	3546	
570-262282-2	SB1-3	Total/NA	Solid	3546	
570-262282-3	SB2-2	Total/NA	Solid	3546	
570-262282-4	SB2-3	Total/NA	Solid	3546	
570-262282-5	SB3-2	Total/NA	Solid	3546	
570-262282-6	SB3-3	Total/NA	Solid	3546	
570-262282-7	SB4-2	Total/NA	Solid	3546	
570-262282-8	SB4-3	Total/NA	Solid	3546	
570-262282-9	SB5-2	Total/NA	Solid	3546	
570-262282-10	SB5-3	Total/NA	Solid	3546	
570-262282-11	SB6-2	Total/NA	Solid	3546	
570-262282-12	SB6-3	Total/NA	Solid	3546	
570-262282-13	SB7-2	Total/NA	Solid	3546	
570-262282-14	SB7-3	Total/NA	Solid	3546	
570-262282-15	SB8-2	Total/NA	Solid	3546	
570-262282-16	SB8-3	Total/NA	Solid	3546	
MB 570-681095/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-681095/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-681095/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 681303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	8082A	681095
570-262282-2	SB1-3	Total/NA	Solid	8082A	681095
570-262282-3	SB2-2	Total/NA	Solid	8082A	681095
570-262282-4	SB2-3	Total/NA	Solid	8082A	681095
570-262282-5	SB3-2	Total/NA	Solid	8082A	681095
570-262282-6	SB3-3	Total/NA	Solid	8082A	681095
570-262282-7	SB4-2	Total/NA	Solid	8082A	681095
570-262282-8	SB4-3	Total/NA	Solid	8082A	681095
570-262282-9	SB5-2	Total/NA	Solid	8082A	681095
570-262282-10	SB5-3	Total/NA	Solid	8082A	681095
570-262282-11	SB6-2	Total/NA	Solid	8082A	681095
570-262282-12	SB6-3	Total/NA	Solid	8082A	681095
570-262282-13	SB7-2	Total/NA	Solid	8082A	681095
570-262282-14	SB7-3	Total/NA	Solid	8082A	681095
570-262282-15	SB8-2	Total/NA	Solid	8082A	681095
570-262282-16	SB8-3	Total/NA	Solid	8082A	681095
MB 570-681095/1-A	Method Blank	Total/NA	Solid	8082A	681095
LCS 570-681095/2-A	Lab Control Sample	Total/NA	Solid	8082A	681095
LCSD 570-681095/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	681095

Metals

Prep Batch: 679928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	3051A	
570-262282-2	SB1-3	Total/NA	Solid	3051A	
570-262282-3	SB2-2	Total/NA	Solid	3051A	
570-262282-4	SB2-3	Total/NA	Solid	3051A	
570-262282-5	SB3-2	Total/NA	Solid	3051A	

Metals (Continued)

Prep Batch: 679928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-6	SB3-3	Total/NA	Solid	3051A	
570-262282-7	SB4-2	Total/NA	Solid	3051A	
570-262282-8	SB4-3	Total/NA	Solid	3051A	
570-262282-9	SB5-2	Total/NA	Solid	3051A	
570-262282-10	SB5-3	Total/NA	Solid	3051A	
570-262282-11	SB6-2	Total/NA	Solid	3051A	
570-262282-12	SB6-3	Total/NA	Solid	3051A	
570-262282-13	SB7-2	Total/NA	Solid	3051A	
570-262282-14	SB7-3	Total/NA	Solid	3051A	
570-262282-15	SB8-2	Total/NA	Solid	3051A	
570-262282-16	SB8-3	Total/NA	Solid	3051A	
MB 570-679928/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 570-679928/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 570-679928/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
570-262282-1 MS	SB1-2	Total/NA	Solid	3051A	
570-262282-1 MSD	SB1-2	Total/NA	Solid	3051A	

Prep Batch: 681383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	7471B	
570-262282-2	SB1-3	Total/NA	Solid	7471B	
570-262282-3	SB2-2	Total/NA	Solid	7471B	
570-262282-4	SB2-3	Total/NA	Solid	7471B	
570-262282-5	SB3-2	Total/NA	Solid	7471B	
570-262282-6	SB3-3	Total/NA	Solid	7471B	
570-262282-7	SB4-2	Total/NA	Solid	7471B	
570-262282-8	SB4-3	Total/NA	Solid	7471B	
570-262282-9	SB5-2	Total/NA	Solid	7471B	
570-262282-10	SB5-3	Total/NA	Solid	7471B	
570-262282-11	SB6-2	Total/NA	Solid	7471B	
570-262282-12	SB6-3	Total/NA	Solid	7471B	
570-262282-13	SB7-2	Total/NA	Solid	7471B	
570-262282-14	SB7-3	Total/NA	Solid	7471B	
570-262282-15	SB8-2	Total/NA	Solid	7471B	
570-262282-16	SB8-3	Total/NA	Solid	7471B	
MB 570-681383/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 570-681383/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 570-681383/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
570-262282-1 MS	SB1-2	Total/NA	Solid	7471B	
570-262282-1 MSD	SB1-2	Total/NA	Solid	7471B	

Analysis Batch: 681485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	6010D	679928
570-262282-2	SB1-3	Total/NA	Solid	6010D	679928
570-262282-3	SB2-2	Total/NA	Solid	6010D	679928
570-262282-4	SB2-3	Total/NA	Solid	6010D	679928
570-262282-5	SB3-2	Total/NA	Solid	6010D	679928
570-262282-6	SB3-3	Total/NA	Solid	6010D	679928
570-262282-7	SB4-2	Total/NA	Solid	6010D	679928
570-262282-8	SB4-3	Total/NA	Solid	6010D	679928

Metals (Continued)

Analysis Batch: 681485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-9	SB5-2	Total/NA	Solid	6010D	679928
570-262282-10	SB5-3	Total/NA	Solid	6010D	679928
570-262282-11	SB6-2	Total/NA	Solid	6010D	679928
570-262282-12	SB6-3	Total/NA	Solid	6010D	679928
570-262282-13	SB7-2	Total/NA	Solid	6010D	679928
570-262282-14	SB7-3	Total/NA	Solid	6010D	679928
570-262282-15	SB8-2	Total/NA	Solid	6010D	679928
570-262282-16	SB8-3	Total/NA	Solid	6010D	679928
MB 570-679928/1-A	Method Blank	Total/NA	Solid	6010D	679928
LCS 570-679928/2-A	Lab Control Sample	Total/NA	Solid	6010D	679928
LCSD 570-679928/3-A	Lab Control Sample Dup	Total/NA	Solid	6010D	679928
570-262282-1 MS	SB1-2	Total/NA	Solid	6010D	679928
570-262282-1 MSD	SB1-2	Total/NA	Solid	6010D	679928

Analysis Batch: 681844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	7471B	681383
570-262282-2	SB1-3	Total/NA	Solid	7471B	681383
570-262282-3	SB2-2	Total/NA	Solid	7471B	681383
570-262282-4	SB2-3	Total/NA	Solid	7471B	681383
570-262282-5	SB3-2	Total/NA	Solid	7471B	681383
570-262282-6	SB3-3	Total/NA	Solid	7471B	681383
570-262282-7	SB4-2	Total/NA	Solid	7471B	681383
570-262282-8	SB4-3	Total/NA	Solid	7471B	681383
570-262282-9	SB5-2	Total/NA	Solid	7471B	681383
570-262282-10	SB5-3	Total/NA	Solid	7471B	681383
570-262282-11	SB6-2	Total/NA	Solid	7471B	681383
570-262282-12	SB6-3	Total/NA	Solid	7471B	681383
570-262282-13	SB7-2	Total/NA	Solid	7471B	681383
570-262282-14	SB7-3	Total/NA	Solid	7471B	681383
570-262282-15	SB8-2	Total/NA	Solid	7471B	681383
570-262282-16	SB8-3	Total/NA	Solid	7471B	681383
MB 570-681383/1-A	Method Blank	Total/NA	Solid	7471B	681383
LCS 570-681383/2-A	Lab Control Sample	Total/NA	Solid	7471B	681383
LCSD 570-681383/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	681383
570-262282-1 MS	SB1-2	Total/NA	Solid	7471B	681383
570-262282-1 MSD	SB1-2	Total/NA	Solid	7471B	681383

General Chemistry

Analysis Batch: 680707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-1	SB1-2	Total/NA	Solid	Moisture	
570-262282-2	SB1-3	Total/NA	Solid	Moisture	
570-262282-3	SB2-2	Total/NA	Solid	Moisture	
570-262282-4	SB2-3	Total/NA	Solid	Moisture	
570-262282-5	SB3-2	Total/NA	Solid	Moisture	
570-262282-6	SB3-3	Total/NA	Solid	Moisture	
570-262282-7	SB4-2	Total/NA	Solid	Moisture	
570-262282-8	SB4-3	Total/NA	Solid	Moisture	
570-262282-9	SB5-2	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 680707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-10	SB5-3	Total/NA	Solid	Moisture	
570-262282-1 DU	SB1-2	Total/NA	Solid	Moisture	

Analysis Batch: 680708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-262282-11	SB6-2	Total/NA	Solid	Moisture	
570-262282-12	SB6-3	Total/NA	Solid	Moisture	
570-262282-13	SB7-2	Total/NA	Solid	Moisture	
570-262282-14	SB7-3	Total/NA	Solid	Moisture	
570-262282-15	SB8-2	Total/NA	Solid	Moisture	
570-262282-16	SB8-3	Total/NA	Solid	Moisture	
570-262282-11 DU	SB6-2	Total/NA	Solid	Moisture	
570-262282-16 DU	SB8-3	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB1-2
Lab Sample ID: 570-262282-1
Date Collected: 01/07/26 10:34
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.21 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 11:53	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.17 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 15:12	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.27 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 21:17	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5103 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 15:58	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.47 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 13:52	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB1-3
Lab Sample ID: 570-262282-2
Date Collected: 01/07/26 10:42
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.837 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 12:15	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.19 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 15:33	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.08 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 21:36	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5178 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:38	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.52 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:20	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB2-2
Lab Sample ID: 570-262282-3
Date Collected: 01/07/26 11:16
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.45 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 12:37	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.14 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 15:55	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.08 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 21:55	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5151 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:47	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.48 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:22	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB2-3
Lab Sample ID: 570-262282-4
Date Collected: 01/07/26 11:25
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.999 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 12:59	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.17 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 16:16	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.30 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 22:14	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5758 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:49	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.47 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:24	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB3-2
Lab Sample ID: 570-262282-5
Date Collected: 01/07/26 11:44
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.644 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 13:21	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.23 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 16:37	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.10 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 22:33	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5631 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:51	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.48 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:26	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB3-3
Lab Sample ID: 570-262282-6
Date Collected: 01/07/26 11:52
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.819 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 13:43	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.19 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 16:59	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.06 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 22:53	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.4998 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:54	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.49 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:28	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB4-2
Lab Sample ID: 570-262282-7
Date Collected: 01/07/26 12:19
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.924 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 14:05	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.12 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 17:20	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.02 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 23:12	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5517 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:56	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.50 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:29	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB4-3
Lab Sample ID: 570-262282-8
Date Collected: 01/07/26 12:23
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.514 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 14:27	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.03 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 17:42	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.38 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 23:31	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.4815 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 16:58	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.51 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:31	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB5-2
Lab Sample ID: 570-262282-9
Date Collected: 01/07/26 12:42
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.701 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 14:50	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.10 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 18:03	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.07 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/12/26 23:50	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5091 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:01	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.53 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:33	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB5-3
Lab Sample ID: 570-262282-10
Date Collected: 01/07/26 12:53
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.668 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 15:12	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.01 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 18:25	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.07 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 00:10	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5526 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:03	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.50 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 16:35	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680707	01/09/26 13:35	N9ZN	EET CAL 4
	Instrument ID: MOI6									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB6-2
Lab Sample ID: 570-262282-11
Date Collected: 01/07/26 13:10
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.086 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 15:34	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.15 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 18:46	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.36 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 00:29	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5395 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:05	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.50 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:01	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Client Sample ID: SB6-3
Lab Sample ID: 570-262282-12
Date Collected: 01/07/26 13:15
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.703 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 15:56	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.18 g	10 mL	680250	01/08/26 15:37	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680430	01/09/26 19:08	TR8L	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3546			20.17 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 02:05	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5877 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:08	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.49 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:03	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB7-2
Lab Sample ID: 570-262282-13
Date Collected: 01/07/26 13:27
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.959 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 16:18	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.02 g	10 mL	680251	01/08/26 15:40	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680480	01/09/26 13:14	TR8L	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3546			20.35 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 02:24	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.4922 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:15	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.47 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:04	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Client Sample ID: SB7-3
Lab Sample ID: 570-262282-14
Date Collected: 01/07/26 13:30
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.699 g	5 mL	680057	01/08/26 09:20	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 16:40	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.25 g	10 mL	680251	01/08/26 15:40	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680480	01/09/26 13:40	TR8L	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3546			20.09 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 02:43	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5722 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:17	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.51 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:06	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB8-2
Lab Sample ID: 570-262282-15
Date Collected: 01/07/26 13:57
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.193 g	5 mL	680057	01/08/26 09:22	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 17:02	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.14 g	10 mL	680251	01/08/26 15:40	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680480	01/09/26 14:07	TR8L	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3546			20.13 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 03:02	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5467 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:20	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.53 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:08	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Client Sample ID: SB8-3
Lab Sample ID: 570-262282-16
Date Collected: 01/07/26 14:00
Matrix: Solid
Date Received: 01/07/26 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.128 g	5 mL	680057	01/08/26 09:22	X7LQ	EET CAL 4
Total/NA	Analysis	8260D		1	5 g	5 mL	679931	01/08/26 17:24	AJ4K	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	Rotary Shaker			10.17 g	10 mL	680251	01/08/26 15:40	S3HK	EET CAL 4
Total/NA	Analysis	8015C		1	10 mL	10 mL	680480	01/09/26 14:34	TR8L	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3546			20.13 g	10 mL	681095	01/11/26 18:36	S3HK	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	681303	01/13/26 03:22	SP9M	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3051A			0.5651 g	50 mL	679928	01/08/26 06:40	SXN8	EET CAL 4
Total/NA	Analysis	6010D		2			681485	01/12/26 17:22	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471B			0.53 g	50 mL	681383	01/12/26 12:49	VCN7	EET CAL 4
Total/NA	Analysis	7471B		1			681844	01/13/26 15:10	JP8N	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Moisture		1			680708	01/09/26 13:38	N9ZN	EET CAL 4
	Instrument ID: MOI5									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Jacob & Hefner Associates P.C. Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C	Rotary Shaker	Solid	C6
8015C	Rotary Shaker	Solid	C6-C44
8015C	Rotary Shaker	Solid	C7
8015C	Rotary Shaker	Solid	C8
8260D	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260D	5035	Solid	1,1-Dichloropropene
8260D	5035	Solid	1,2,3-Trichlorobenzene
8260D	5035	Solid	1,2,4-Trimethylbenzene
8260D	5035	Solid	1,3,5-Trimethylbenzene
8260D	5035	Solid	1,3-Dichloropropane
8260D	5035	Solid	2,2-Dichloropropane
8260D	5035	Solid	2-Butanone (MEK)
8260D	5035	Solid	2-Chlorotoluene
8260D	5035	Solid	2-Hexanone
8260D	5035	Solid	Acetone
8260D	5035	Solid	Ethanol
8260D	5035	Solid	Isopropylbenzene
8260D	5035	Solid	p-Isopropyltoluene
8260D	5035	Solid	Vinyl acetate
Moisture		Solid	Percent Moisture

Oregon	NELAP	4175	02-02-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CAL 4
8015C	Diesel Range Organics (DRO) (GC)	EPA	EET CAL 4
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
6010D	Metals (ICP)	SW846	EET CAL 4
7471B	Mercury (CVAA)	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3051A	Preparation, Metals, Microwave Assisted	SW846	EET CAL 4
3546	Microwave Extraction	SW846	EET CAL 4
5035	Closed System Purge and Trap	SW846	EET CAL 4
7471B	Preparation, Mercury	SW846	EET CAL 4
Rotary Shaker	Rotary Shaker Extraction	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-262282-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-262282-1	SB1-2	Solid	01/07/26 10:34	01/07/26 15:56	California
570-262282-2	SB1-3	Solid	01/07/26 10:42	01/07/26 15:56	California
570-262282-3	SB2-2	Solid	01/07/26 11:16	01/07/26 15:56	California
570-262282-4	SB2-3	Solid	01/07/26 11:25	01/07/26 15:56	California
570-262282-5	SB3-2	Solid	01/07/26 11:44	01/07/26 15:56	California
570-262282-6	SB3-3	Solid	01/07/26 11:52	01/07/26 15:56	California
570-262282-7	SB4-2	Solid	01/07/26 12:19	01/07/26 15:56	California
570-262282-8	SB4-3	Solid	01/07/26 12:23	01/07/26 15:56	California
570-262282-9	SB5-2	Solid	01/07/26 12:42	01/07/26 15:56	California
570-262282-10	SB5-3	Solid	01/07/26 12:53	01/07/26 15:56	California
570-262282-11	SB6-2	Solid	01/07/26 13:10	01/07/26 15:56	California
570-262282-12	SB6-3	Solid	01/07/26 13:15	01/07/26 15:56	California
570-262282-13	SB7-2	Solid	01/07/26 13:27	01/07/26 15:56	California
570-262282-14	SB7-3	Solid	01/07/26 13:30	01/07/26 15:56	California
570-262282-15	SB8-2	Solid	01/07/26 13:57	01/07/26 15:56	California
570-262282-16	SB8-3	Solid	01/07/26 14:00	01/07/26 15:56	California

Eurofins Calscience LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: D. Ortiz	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No: JHA-01072026-Rayo
Client Contact: Matt Hillman	Phone: 714-392-5970	E-Mail: Terri.Chang@ET.EurofinsUS.com		Page: Page 1 of 1
Company: JHA Environmental, Inc				Job #:
Address: 15375 Barranca Parkway, #J-101	Due Date Requested:			
City: Irvine	TAT Requested (days): All tests are normal TAT (10 days)			
State, Zip: CA, 92618				
Phone: 714-392-5970 (Cell)	PO #: H722-1L-800			
Email: mhillman@jhainc.com	WO #:			
Project Name: Mr.C's Towing - SouthGate	Project #: E928f			
Site: Cooper Drum	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other: Sodium Bisulfate NaHSO3, Methanol

Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Low Level	TPH- CC	Title 22 Metals	PCB's	Total Number of containers	Special Instructions/Note:
				Preservation Code:				Z	N	N	N		4
SB1-2	1	1/7/2026	1034	G	Solid			X	X	X	X	4	
SB1-3	2	1/7/2026	1042	G	Solid			X	X	X	X	1	
SB2-2	3	1/7/2026	1116	G	Solid			X	X	X	X		
SB2-3	4	1/7/2026	1125	G	Solid			X	X	X	X		
SB3-2	5	1/7/2026	1144	G	Solid			X	X	X	X		
SB3-3	6	1/7/2026	1152	G	Solid			X	X	X	X		
SB4-2	7	1/7/2026	1219	G	Solid			X	X	X	X		
SB4-3	8	1/7/2026	1223	G	Solid			X	X	X	X		
SB5-2	9	1/7/2026	1242	G	Solid			X	X	X	X		
SB5-3	10	1/7/2026	1253	G	Solid			X	X	X	X		
SB6-2	11	1/7/2026	1310	G	Solid			X	X	X	X		
SB6-3	12	1/7/2026	1316	G	Solid			X	X	X	X		
SB7-2	13	1/7/2026	1327	G	Solid			X	X	X	X		
SB7-3	14	1/7/2026	1330	G	Solid			X	X	X	X		
SB8-2	15	1/7/2026	1357	G	Solid			X	X	X	X		
SB8-3	16	1/7/2026	1400	G	Solid			X	X	X	X	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: ** Analyze TPH-cc sample IF O&G detected.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		01/07/2026 1556	JHA		01/07/2026 1556	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.5/5.6 IR5

QFG3

Login Sample Receipt Checklist

Client: Jacob & Hefner Associates P.C.

Job Number: 570-262282-1

Login Number: 262282

List Source: Eurofins Calscience

List Number: 1

Creator: Judkins, Julianne

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Matt Hillman
Jacob & Hefner Associates P.C.
15375 Barranca Parkway, J-101
Irvine, California 92618

Generated 1/26/2026 1:42:34 PM

JOB DESCRIPTION

Mr.C's Towing - SouthGate / Cooper Drum

JOB NUMBER

570-264140-1

Eurofins Calscience
2841 Dow Avenue
Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Terri Chang, Project Manager I
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Definitions/Glossary

Client: Jacob & Hefner Associates P.C. Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-264140-1 Eurofins Calscience

Job Narrative
570-264140-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 1/21/2026 4:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions
The collection date for the following samples did not match the collection date listed on the Chain-of-Custody (COC): SB9-2 (570-264140-1), SB9-3 (570-264140-2), SB10-2 (570-264140-3) and SB10-3 (570-264140-4). The labels list 01/21/2026, while the COC lists 01/7/2026 (time matched).

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB9-2
Lab Sample ID: 570-264140-1

No Detections.

Client Sample ID: SB9-3
Lab Sample ID: 570-264140-2

No Detections.

Client Sample ID: SB10-2
Lab Sample ID: 570-264140-3

No Detections.

Client Sample ID: SB10-3
Lab Sample ID: 570-264140-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB9-2 **Lab Sample ID: 570-264140-1**
Date Collected: 01/21/26 14:45 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		58	45	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1221	ND		58	45	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1232	ND		58	45	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1242	ND		58	45	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1248	ND		58	45	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1254	ND		58	29	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1
Aroclor-1260	ND		58	29	ug/Kg	☼	01/22/26 16:54	01/23/26 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*20 - 120*	*01/22/26 16:54*	*01/23/26 22:58*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*25 - 120*	*01/22/26 16:54*	*01/23/26 22:58*	*1*

Client Sample ID: SB9-3 **Lab Sample ID: 570-264140-2**
Date Collected: 01/21/26 14:45 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1221	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1232	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1242	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1248	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1254	ND		55	28	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1
Aroclor-1260	ND		55	28	ug/Kg	☼	01/22/26 16:54	01/23/26 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 120*	*01/22/26 16:54*	*01/23/26 23:12*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*25 - 120*	*01/22/26 16:54*	*01/23/26 23:12*	*1*

Client Sample ID: SB10-2 **Lab Sample ID: 570-264140-3**
Date Collected: 01/21/26 15:10 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1221	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1232	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1242	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1248	ND		55	43	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1254	ND		55	28	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1
Aroclor-1260	ND		55	28	ug/Kg	☼	01/22/26 16:54	01/23/26 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*20 - 120*	*01/22/26 16:54*	*01/23/26 23:25*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*25 - 120*	*01/22/26 16:54*	*01/23/26 23:25*	*1*

Client Sample ID: SB10-3 **Lab Sample ID: 570-264140-4**
Date Collected: 01/21/26 15:10 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		53	41	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1
Aroclor-1221	ND		53	41	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1
Aroclor-1232	ND		53	41	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB10-3 **Lab Sample ID: 570-264140-4**
Date Collected: 01/21/26 15:10 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1242	ND		53	41	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1
Aroclor-1248	ND		53	41	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1
Aroclor-1254	ND		53	27	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1
Aroclor-1260	ND		53	27	ug/Kg	☼	01/22/26 16:54	01/23/26 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*104*		*20 - 120*	*01/22/26 16:54*	*01/23/26 23:38*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*25 - 120*	*01/22/26 16:54*	*01/23/26 23:38*	*1*

Client: Jacob & Hefner Associates P.C. Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

General Chemistry

Client Sample ID: SB9-2 **Lab Sample ID: 570-264140-1**
Date Collected: 01/21/26 14:45 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.9		0.1	0.1	%			01/25/26 08:23	1

Client Sample ID: SB9-3 **Lab Sample ID: 570-264140-2**
Date Collected: 01/21/26 14:45 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.8		0.1	0.1	%			01/25/26 08:23	1

Client Sample ID: SB10-2 **Lab Sample ID: 570-264140-3**
Date Collected: 01/21/26 15:10 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			01/25/26 08:23	1

Client Sample ID: SB10-3 **Lab Sample ID: 570-264140-4**
Date Collected: 01/21/26 15:10 **Matrix: Solid**
Date Received: 01/21/26 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5		0.1	0.1	%			01/25/26 08:23	1

Surrogate Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB1	TCX1										
Lab Sample ID	Client Sample ID	(20-120)	(25-120)										
570-264140-1	SB9-2	76	76										
570-264140-2	SB9-3	65	70										
570-264140-3	SB10-2	103	91										
570-264140-4	SB10-3	104	90										
LCS 570-685819/2-A	Lab Control Sample	113	99										
LCSD 570-685819/3-A	Lab Control Sample Dup	109	93										
MB 570-685819/1-A	Method Blank	116	100										

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-685819/1-A
Matrix: Solid
Analysis Batch: 686159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1221	ND		50	39	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1232	ND		50	39	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1242	ND		50	39	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1248	ND		50	39	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1254	ND		50	25	ug/Kg		01/22/26 16:54	01/23/26 18:18	1
Aroclor-1260	ND		50	25	ug/Kg		01/22/26 16:54	01/23/26 18:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*116*		*20 - 120*	*01/22/26 16:54*	*01/23/26 18:18*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*25 - 120*	*01/22/26 16:54*	*01/23/26 18:18*	*1*

Lab Sample ID: LCS 570-685819/2-A
Matrix: Solid
Analysis Batch: 686159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685819

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	122.7		ug/Kg		123	53 - 133		
Aroclor-1260			100	114.0		ug/Kg		114	39 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*113*		*20 - 120*
Tetrachloro-m-xylene (Surr)	*99*		*25 - 120*

Lab Sample ID: LCSD 570-685819/3-A
Matrix: Solid
Analysis Batch: 686159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 685819

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	105.7		ug/Kg		106	53 - 133	15	32
Aroclor-1260			100	116.7		ug/Kg		117	39 - 140	2	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*109*		*20 - 120*
Tetrachloro-m-xylene (Surr)	*93*		*25 - 120*

QC Association Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

GC Semi VOA

Prep Batch: 685819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-264140-1	SB9-2	Total/NA	Solid	3546	
570-264140-2	SB9-3	Total/NA	Solid	3546	
570-264140-3	SB10-2	Total/NA	Solid	3546	
570-264140-4	SB10-3	Total/NA	Solid	3546	
MB 570-685819/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-685819/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-685819/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 686159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-264140-1	SB9-2	Total/NA	Solid	8082A	685819
570-264140-2	SB9-3	Total/NA	Solid	8082A	685819
570-264140-3	SB10-2	Total/NA	Solid	8082A	685819
570-264140-4	SB10-3	Total/NA	Solid	8082A	685819
MB 570-685819/1-A	Method Blank	Total/NA	Solid	8082A	685819
LCS 570-685819/2-A	Lab Control Sample	Total/NA	Solid	8082A	685819
LCSD 570-685819/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	685819

General Chemistry

Analysis Batch: 686729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-264140-1	SB9-2	Total/NA	Solid	Moisture	
570-264140-2	SB9-3	Total/NA	Solid	Moisture	
570-264140-3	SB10-2	Total/NA	Solid	Moisture	
570-264140-4	SB10-3	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Client Sample ID: SB9-2
Lab Sample ID: 570-264140-1
Date Collected: 01/21/26 14:45
Matrix: Solid
Date Received: 01/21/26 16:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	685819	01/22/26 16:54	VAW2	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	686159	01/23/26 22:58	P2HW	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			686729	01/25/26 08:23	TP6R	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB9-3
Lab Sample ID: 570-264140-2
Date Collected: 01/21/26 14:45
Matrix: Solid
Date Received: 01/21/26 16:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.25 g	10 mL	685819	01/22/26 16:54	VAW2	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	686159	01/23/26 23:12	P2HW	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			686729	01/25/26 08:23	TP6R	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB10-2
Lab Sample ID: 570-264140-3
Date Collected: 01/21/26 15:10
Matrix: Solid
Date Received: 01/21/26 16:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	685819	01/22/26 16:54	VAW2	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	686159	01/23/26 23:25	P2HW	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			686729	01/25/26 08:23	TP6R	EET CAL 4
	Instrument ID: MOI6									

Client Sample ID: SB10-3
Lab Sample ID: 570-264140-4
Date Collected: 01/21/26 15:10
Matrix: Solid
Date Received: 01/21/26 16:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	685819	01/22/26 16:54	VAW2	EET CAL 4
Total/NA	Analysis	8082A		1	1 mL	1 mL	686159	01/23/26 23:38	P2HW	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			686729	01/25/26 08:23	TP6R	EET CAL 4
	Instrument ID: MOI6									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Jacob & Hefner Associates P.C. Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Oregon	NELAP	4175	02-02-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3546	Microwave Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-264140-1
Project/Site: Mr.C's Towing - SouthGate / Cooper Drum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-264140-1	SB9-2	Solid	01/21/26 14:45	01/21/26 16:26	California
570-264140-2	SB9-3	Solid	01/21/26 14:45	01/21/26 16:26	California
570-264140-3	SB10-2	Solid	01/21/26 15:10	01/21/26 16:26	California
570-264140-4	SB10-3	Solid	01/21/26 15:10	01/21/26 16:26	California

Eurofins Calscience LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: D. Ortiz	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No: JHA-01212026-Rayo
Client Contact: Matt Hillman	Phone: 714-392-5970	E-Mail: Terri.Chang@ET.EurofinsUS.com		Page: Page 1 of 1
Company: JHA Environmental, Inc				Job #:

Address: 15375 Barranca Parkway, #J-101	Due Date Requested:
City: Irvine	TAT Requested (days): All tests are normal TAT (10 days)
State, Zip: CA, 92618	
Phone: 714-392-5970 (Cell)	PO #: H722-1L-800
Email: mhillman@jhainc.com	WO #:
Project Name: Mr.C's Towing - SouthGate	Project #: E928f
Site: Cooper Drum	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other: Sodium Bisulfate NaHSO3, Methanol

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Low Level	TPH- CC	Title 22 Metals	PCB's	Total Number of containers	Special Instructions/Note:
				Preservation Code:				Z	N	N	N		
1	SB9-2	1/7/2026	2:45	G	Solid					X	X	1	Hold Metals Analysis 3day TAT
2	SB9-3	1/7/2026	2:45	G	Solid					X	X		Hold Metals Analysis
3	SB10-2	1/7/2026	3:10	G	Solid					X	X	1	Hold Metals Analysis
4	SB10-3	1/7/2026	3:10	G	Solid					X	X	1	Hold Metals Analysis

570-264140 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: ** Metals Analysis on Hold Pending Results of STLC and TCLP for Lead on SB5-2 and

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/21/26 1626		EC	1-21-26 16:26	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.5 / 2.6 IR5

H4M W

Login Sample Receipt Checklist

Client: Jacob & Hefner Associates P.C.

Job Number: 570-264140-1

Login Number: 264140

List Source: Eurofins Calscience

List Number: 1

Creator: Cortez Diaz, Antonio

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

APPENDIX C

AQMD Rules

(Adopted May 7, 1976)

RULE 402. NUISANCE

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

(Adopted May 7, 1976) (Amended November 6, 1992)
(Amended July 9, 1993) (Amended February 14, 1997)
(Amended December 11, 1998)(Amended April 2, 2004)
(Amended June 3, 2005)

RULE 403. FUGITIVE DUST

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

(1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.

(2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.

(3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.

(4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.

(5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

(6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.

(8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.

(10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.

(11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.

(13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

(14) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:

(A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) been paved or otherwise covered by a permanent structure; or

(C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(15) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(16) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.

(17) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.

(18) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.

(19) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.

(20) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.

(21) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

(22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.

(23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.

(24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

(25) PM_{10} means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.

(26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.

(28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.

(29) SIMULTANEOUS SAMPLING means the operation of two PM_{10} samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.

(30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

(31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.

(32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.

(34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.

(35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.

(37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

(d) Requirements

(1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

(A) the dust remains visible in the atmosphere beyond the property line of the emission source; or

(B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.

(2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.

(3) No person shall cause or allow PM_{10} levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM_{10} monitoring. If sampling is conducted, samplers shall be:

(A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM_{10}.

(B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.

(4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.

(5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.

(A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

(B) Pave the surface extending at least 100 feet and at least 20 feet wide.

(C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.

(e) Additional Requirements for Large Operations

(1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:

(A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;

(B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;

(C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

(D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;

(E) identify a dust control supervisor that:

(i) is employed by or contracted with the property owner or developer;

(ii) is on the site or available on-site within 30 minutes during working hours;

(iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;

(iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

(A) Dairy farms.

(B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.

(C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.

(G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.

(H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.

(I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.

(J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

(i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and

(ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.

(K) sandblasting operations.

(2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:

(A) When wind gusts exceed 25 miles per hour, provided that:

(i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;

(ii) records are maintained in accordance with subparagraph (e)(1)(C).

(B) To unpaved roads, provided such roads:

(i) are used solely for the maintenance of wind-generating equipment; or

(ii) are unpaved public alleys as defined in Rule 1186; or

(iii) are service roads that meet all of the following criteria:

(a) are less than 50 feet in width at all points along the road;

(b) are within 25 feet of the property line; and

(c) have a traffic volume less than 20 vehicle-trips per day.

(C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.

(3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.

(4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:

(A) Blasting operations which have been permitted by the California Division of Industrial Safety; and

(B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.

(5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

(6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.

(7) The provisions of subdivision (e) shall not apply to:

(A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.

(B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.

(C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.

(8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM_{10} pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes
Landscaping	10-1 Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure		Guidance
Unpaved roads/parking lots	19-1	Stabilize soils to meet the applicable performance standards; and	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
	19-2	Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	
Vacant land	20-1	In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Earth-moving (except construction cutting and filling areas, and mining operations)	(1a)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	(1a-1)	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	(1b)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR
	(2d)	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a)	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	(3b)	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR
	(3c)	Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR
	(3d)	Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Unpaved Roads	(4a)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR
	(4b)	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	(4c)	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a)	Apply chemical stabilizers; OR
	(5b)	Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	(5c)	Install temporary coverings; OR
	(5d)	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL MEASURES
Earth-moving	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
Open storage piles	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
Paved road track-out	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

Table 4
(Conservation Management Practices for Confined Animal Facilities)

SOURCE CATEGORY	CONSERVATION MANAGEMENT PRACTICES
Manure Handling **(Only applicable to Commercial Poultry Ranches)**	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
Feedstock Handling	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
Disturbed Surfaces	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
Unpaved Roads	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
Equipment Parking Areas	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

(Adopted August 5, 1988)(Amended July 14, 1995)(Amended May 11, 2001)

RULE 1166. VOLATILE ORGANIC COMPOUND EMISSIONS FROM DECONTAMINATION OF SOIL

(a) Applicability

This rule sets requirements to control the emission of Volatile Organic Compounds (VOC) from excavating, grading, handling and treating VOC-contaminated soil as a result of leakage from storage or transfer operations, accidental spillage, or other deposition.

(b) Definitions

(1) EXCAVATION is the process of digging out and removing materials, including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.

(2) GRADING is the process of leveling off to produce a smooth surface including the removal of any material necessary to that process such as asphalt and concrete necessary to expose known VOC contaminated soil.

(3) SOIL DECONTAMINATION MEASURE is any process approved by the Executive Officer to remediate, destroy, remove, or encapsulate VOC and VOC-contaminated soil.

(4) UNDERGROUND STORAGE TANK means any one or combination of tanks, including pipes connected thereto, which is used for the storage of organic liquid which is more than 50% beneath the surface of the ground.

(5) VOC CONTAMINATED SOIL is a soil which registers a concentration of 50 ppm or greater of Volatile Organic Compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.

(6) VOC CONTAMINATED SOIL MITIGATION PLAN is a plan to minimize VOC emissions to the atmosphere during excavation and any subsequent handling of VOC-contaminated soil.

(7) VOLATILE ORGANIC COMPOUND (VOC) is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds are defined in Rule 102—Definition Of Terms.

(8) VOLATILE ORGANIC MATERIALS include gasoline, diesel, crude oil, lubricant, waste oil, adhesive, paint, stain, solvent, resin, monomer, and/or any other material containing VOC.

(c) Requirements

(1) A person excavating an underground storage tank and/or transfer piping storing or previously storing VOC materials, or excavating or grading soil containing VOC materials shall:

(A) Apply for, obtain and operate pursuant to a mitigation plan approved by the Executive Officer prior to commencement of excavation or handling. The mitigation plan general requirement and application requirements are found in Attachment A to this rule. A copy of the approved plan must be on site during the entire excavation period.

(B) Notify the Executive Officer at least 24 hours prior to excavation using a form approved by the Executive Officer which is fully completed.

If the excavation does not commence on start date, renotification is required.

An alternative notification procedure may be authorized for multiple excavations within a single facility, with prior written approval from the Executive Officer.

(C) Monitor for VOC contamination pursuant to subdivision (e), at least once every 15 minutes commencing at the beginning of excavation or grading and record all VOC concentration readings in a format approved by the Executive Officer; and

(D) When VOC-contaminated soil is detected during excavation or grading:

(i) Implement the approved mitigation plan (Attachment A).

(ii) Notify the Executive Officer within 24 hours of detection of VOC-contaminated soil.

(iii) Monitor and record VOC concentration readings as prescribed in the plan. Monitoring records must be kept available on site.

(iv) Keep calibration records for all monitoring instruments available on site.

(2) A person handling VOC-contaminated soil at or from an excavation or grading site shall:

(A) Segregate VOC-contaminated stockpiles from non-VOC contaminated stockpiles such that mixing of the stockpiles does not take place.

(B) Spray VOC-contaminated soil stockpiles with water and/or approved vapor suppressant and cover them with plastic sheeting for all periods of inactivity lasting more than one hour.

(C) Conduct a daily visual inspection of all covered VOC contaminated soil stockpiles to ensure the integrity of the plastic covered surfaces. A daily inspection record must be maintained on site.

(D) Comply with the provisions in subparagraph (c) (1)(A) and clause (c)(1)(D)(i).

(E) Maintain a record of the identification and business addresses of the generator, transporter and storage/treatment facilities. Such record shall be signed by each party at the time custody is transferred.

(F) Treat or remove contaminated soil from an excavation or grading site within 30 days from the time of excavation.

(3) If the VOC concentration in the excavated soil is measured at greater than 1000 ppm, spray the soil with water or vapor suppressant and:

(A) As soon as possible, but not more than 15 minutes, place the soil in sealed containers, or

(B) As soon as possible, but not more than 15 minutes, load into trucks, moisten with additional water, cover and transport off site, or

(C) Implement other alternative storage methods approved in writing by the Executive Officer.

(4) A person treating VOC-contaminated soil shall:

(A) Obtain a permit to construct and operate treatment equipment, as applicable, from the Executive Officer, and

(B) Implement VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology applied during all segments, and which include, but are not limited to, at least one of the following:

(i) Installation and operation of an underground VOC collection system and a disposal system prior to excavation.

(ii) Collection and disposal of the VOC from the excavated soil on-site using equipment approved by the Executive Officer.

(iii) Any equivalent VOC-contaminated soil control measure previously approved in writing by the Executive Officer.

(5) A person shall not engage in or allow any on-site or off-site spreading, grading or screening of VOC-contaminated soil, which results in uncontrolled evaporation of VOC to the atmosphere.

(6) Loading trucks for contaminated soil must meet the following:

(A) The truck and trailer shall be adequately tarped prior to leaving the site; no excavated materials shall extend above the sides or rear of the truck or trailer to prevent soil spillage during transport, and

(B) The exterior of the truck, trailer and tires shall be cleaned off prior to the truck leaving the site.

(d) Exemptions

(1) The provisions of this rule shall not apply to the following:

(A) Excavation, handling, and treating of less than one (1) cubic yard of contaminated soil.

(B) Removal of soil for sampling purposes.

(C) Accidental spillage of five (5) gallons or less of VOC containing material.

(2) The provisions of paragraphs (c)(1) and (c)(2) shall not apply to soil excavation or handling as a result of an emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer. Whenever possible, the Executive Officer shall be notified by telephone prior to commencing such excavation. The Executive Officer shall be notified in writing no later than 48 hours following such excavation. Written notification shall include written emergency declaration from the authorized officer.

(e) Test Methods

(1) A person shall measure excavated soils for volatile organic compounds to determine contamination by:

(A) Using an organic vapor analyzer calibrated with hexane, complying with 40 CFR Part 60 Appendix A, EPA Reference Method 21 Section 3 or any equivalent method with prior approval in writing by the Executive Officer. If other calibrating gases are used, then the measured readings shall be correlated to and expressed as hexane.

(B) Placing the probe inlet at a distance of no more than three inches from the surface of the excavated soil and while slowly moving the probe across the soil surface, observe the instrument readout. If an increased meter reading is observed, continue to sample the excavated soil until the maximum meter reading is obtained. Leave the probe inlet at this maximum reading location for approximately double the instrument response time. If the maximum observed meter reading is greater than the 50 ppm standard in the regulation, record and report the results.

(2) The presence of VOC in stored or spillage materials shall be determined by SCAQMD Method 313 [Determination of Presence of Volatile Organic Compounds (VOC) in Headspace] and/or Method 304 (Determination of Volatile Organic Compounds in Various Materials) contained in the SCAQMD "Laboratory Methods of Analysis for Enforcement Samples" manual.

(f) Enforcement

(1) Violation of any provision of this rule or the violation of the approved mitigation plan shall be grounds for the Executive Officer to amend or revoke the mitigation plan, in addition to penalties provided by the Health & Safety Code.

(2) If the owner or operator is served with a Notice of Violation for creating a public nuisance, the owner or operator shall suspend operation until the public nuisance is mitigated to the satisfaction of the Executive Officer.

ATTACHMENT A
GENERAL MITIGATION PLANS REQUIREMENTS

VOC Contaminated Soil Mitigation Plans shall be written to minimize VOC emissions to the atmosphere during excavation, grading, handling and treatment of VOC contaminated soil. VOC Contaminated Soil Mitigation Plans shall consist of three types: Various Locations, Site Specific and Facility Treatment.

(1) General Requirements

(A) A plan is not transferable.

(B) A person responsible for the excavation, grading or handling of VOC contaminated soil must be completely familiar with the plan and must adhere to the plan requirement. The Executive Officer may require that the plan be signed by the owner and/or operator.

(C) A plan may be amended upon renewal.

(D) Permission to excavate, grade or handle VOC contaminated soil may be withdrawn by the District upon a finding by the Executive Officer that the excavation, grading or handling of the VOC contaminated soil is causing a public nuisance or violating other AQMD rules or regulations.

(2) Various Location Plans:

(A) Shall be limited to the excavation of 2000 cubic yards or less of VOC contaminated soil in any consecutive 12 month period at the same site.

(B) Shall not be used in conjunction with any other various location plan at the same site within a consecutive 12-month period.

(C) Shall expire after one year from issuance unless renewed.

(D) Shall not be issued for nor used for operations that involve grading, soil treatment or remediation, or landfills.

(3) Site Specific Plans:

(A) Shall be for excavation of greater than 2000 cubic yards of VOC contaminated soil.

(B) Shall be issued for specific excavation or grading locations for a period not to exceed two years.

(C) Shall not be renewable.

(4) Facility Treatment Plans:

(A) Shall be issued for a treatment facility at a permanent location.

(B) Shall expire after one year from issuance unless renewed.

(5) Applications for Site Specific Plans shall contain as a minimum:

(A) Reasons for excavation or grading.

(B) Cause of VOC soil contamination and history of the site.

(C) Description of tanks or piping associated with the soil contamination.

(D) An estimate of the amount of contaminated soil.

(E) The operating schedule for excavation and removal.

(F) Description of how the excavation or grading will be conducted.

(G) Description of mitigation measures for dust, odors and VOC.

(H) Details of disposal of VOC contaminated soil, including the ultimate receptor.

(I) Description of monitoring equipment and techniques.

(J) A map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential areas or other sensitive receptors such as hospitals or locations where children or elderly people live or work.

(K) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(6) Applications for Facility Treatment Plans shall at a minimum:

(A) Include a list of all AQMD permits to construct or operate which have been issued for that treatment and control equipment.

(B) Provide for the implementation of VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology during all operations.

(C) Provide a map showing the facility layout including the location of all proposed VOC and non-VOC contaminated soil stockpiles.

(D) Specify the total amount of VOC contaminated soil proposed to be stockpiled on site.

(E) Provide for VOC contaminated soil stockpiles to be kept moist with water or suppressant and be covered to prevent fugitive emissions.

(F) Provide for VOC contaminated soil stockpiles to be segregated from non-VOC contaminated soil stockpiles.

(G) Provide for maintenance of records for stockpiles according to the source name, address and dates of reception.

(H) Provide for records of the generator, transporter and storage/treatment facilities and indicate their identification and business addresses. Such records shall be signed by each party at the time custody is transferred.

(I) Provide a map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential area or other sensitive receptors such as hospitals, or locations where children or elderly people live or work.

(J) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(K) Specify the operating schedule and maximum amount of VOC-contaminated soil proposed to be remediated on a daily basis.

(7) In approving a plan, the Executive Officer require reasonable conditions deemed necessary to ensure the operations comply with the plan and AQMD rules. The conditions may include, but shall not be limited to, procedures for ensuring responsibility for the implementation of the plan, accessibility to the site for AQMD staff, notification of actions required by the plan, identification of emission receptors, monitoring and testing, suppression and covering of stockpiles, prevention of public nuisance from VOC or dust emissions, prevention of fugitive emissions of VOC contaminated soil, loading of truck trailers, and disposal and treatment.

(8) In approving a plan, the Executive Officer may require any records deemed necessary to be maintained by the operator to demonstrate compliance with the plan. Such records shall be retained for at least 2 years and be made available to the Executive officer upon request.

(Adopted July 7, 2017)(Amended December 1, 2017)(Amended June 4, 2021)

RULE 1466. CONTROL OF PARTICULATE EMISSIONS FROM SOILS WITH TOXIC AIR CONTAMINANTS

(a) Purpose

The purpose of this rule is to minimize the amount of off-site fugitive dust emissions containing toxic air contaminants by reducing particulate emissions in the ambient air as a result of earth-moving activities, including, dredging, excavating, grading, earth-cutting and filling, loading, unloading, handling, mechanized land clearing, treating, stockpiling, transferring, and removing of soil that contains applicable toxic air contaminants, from sites that meet the applicability requirements of subdivision (b).

(b) Applicability

(1) This rule shall apply to any owner or operator conducting earth-moving activities of soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16) that have been identified as contaminant(s) of concern at a site that has been designated and notified by:

(A) The U.S. Environmental Protection Agency (U.S. EPA) as a Superfund National Priorities List site;

(B) The California Department of Toxic Substances Control (DTSC) as a Brownfield or Cleanup Program site;

(C) The State Water Resources Control Board (State Water Board) or Regional Water Quality Control Board (Regional Water Board) as a Site Cleanup Program site;

(D) A county, local, or state regulatory agency as a Hazardous Material Release site, as defined in California Health and Safety Code Section 25260; or

(E) The Executive Officer pursuant to subdivision (i).

(2) This rule shall not apply to:

(A) Earth-moving activities of soil with applicable toxic air contaminant(s) of less than 50 cubic yards; or

(B) Removal of soil for sampling purposes.

(c) Definitions

(1) ADEQUATELY WET means the condition of being sufficiently mixed or penetrated with water to prevent the release of particulates or visible emissions. The process by which an adequately wet condition is achieved is by using a dispenser

or water hose with a nozzle that permits the use of a fine, low-pressure spray or mist.

(c) (2) ADJACENT ATHLETIC AREA means any outdoor athletic field or park where youth organized sports occur that is in physical contact or separated solely by a public roadway or other public right-of-way to a SCHOOL.

(3) ADJOINING means in physical contact with or separated solely by a public roadway or other public right-of-way.

(4) CHEMICAL STABILIZERS means any non-toxic chemicals that are used to bind soil together to control FUGITIVE DUST emissions.

(5) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for FUGITIVE DUST. This definition excludes those areas which have:

(A) Been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) Been paved or otherwise covered by a permanent structure; or

(C) Sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(6) DUST SUPPRESSANTS means water or hygroscopic materials, other than CHEMICAL STABILIZERS, that are used as a treatment material to reduce FUGITIVE DUST emissions.

(7) EARTH-MOVING ACTIVITIES means, for the purpose of this rule, any activity on a site that meets the applicability requirements of subdivision (b) where SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S) is being moved or uncovered, including: dredging, excavating, grading, earth-cutting and filling operations, loading, unloading, handling, mechanized land clearing, treating, transferring, removing, and adding to or removing from STOCKPILES, and vehicular movement of equipment associated with these activities. EARTH-MOVING ACTIVITIES do not include vehicular movement from: delivery vehicles, passenger vehicles transporting personnel to and from the site, vehicles used for administrative purposes, vehicles transporting personnel for the purposes of soil sampling and conducting ambient PM_{10} monitoring requirements, watering trucks, and equipment used exclusively on a portion(s) of the site where there is no SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S).

(c) (8) FUGITIVE DUST means, for the purpose of this rule, any solid particulate matter that is in contact with ambient air and has the potential to become airborne, other than solid particulate matter that is emitted from an exhaust stack.

(9) JOINT USE AGREEMENT PROPERTY means a shared public facility in which a formal agreement exists between a SCHOOL and another government entity setting forth the terms and conditions for shared use.

(10) OWNER OR OPERATOR means any firm, business establishment, association, partnership, corporation or individual, whether acting as principal, agent, employee, contractor, or other capacity.

(11) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excludes access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal, or any other governmental or quasi-governmental agencies. Private paved roads are any PAVED ROADS not defined as public.

(12) PROPERTY LINE means the boundary of an area where a person has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(13) SCHOOL means any public or private education center, including juvenile detention facilities with classrooms, used for the education of more than 12 children at the education center in kindergarten through grade 12. A SCHOOL also includes an Early Learning and Developmental Program by the U.S. Department of Education or any state or local early learning and development programs such as preschools, Early Head Starts, Head Start, First Five, and Child Development Centers. A SCHOOL does not include any private education center in which education is primarily conducted in private homes. A SCHOOL includes any building or structure, playground, athletic field, or other area of school property.

(14) SLAG means, for the purpose of this rule, the by-product material that is separated from metals during smelting or refining of ore.

(15) SOIL means dirt, sand, gravel, clay, SLAG, and aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(16) SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S) means, for the purpose of this rule, SOIL that has been identified by the U.S. EPA, the DTSC, the

State Water Board, the Regional Water Board, or a county, local, or state regulatory agency, to contain one or more of the applicable toxic air contaminants listed in Table I that exceed action levels as specified by the designating agency, or soil that has been identified by the Executive Officer to contain one or more of the toxic air contaminants listed in Rule 1401 – New Source Review of Toxic Air Contaminants (Table I) or Hazardous Air Pollutants Identified as Toxic Air Contaminants as listed in California Code of Regulations Section 93001, excluding volatile organic compounds regulated under Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil.

(c) (17) STABILIZED SURFACE means any previously DISTURBED SURFACE AREA or STOCKPILE, which through the application of CHEMICAL STABILIZERS or DUST SUPPRESSANTS, shows visual or other evidence of surface crusting and is resistant to WIND-DRIVEN FUGITIVE DUST, and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the most current version of the South Coast AQMD *Rule 403 Fugitive Dust Implementation Handbook* or in Volumes I and II of South Coast AQMD's *Dust Control in the Coachella Valley*.

(18) STOCKPILE means any accumulation of SOIL, which is not fully enclosed and which attains a height of three feet or more and a total surface area of 150 square feet or more.

(19) TRACK-OUT means, for the purpose of this rule, any SOIL that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that has been released onto a PAVED ROAD and that can be removed by a vacuum sweeper under normal operating conditions.

(20) WIND-DRIVEN FUGITIVE DUST means visible emissions from any DISTURBED SURFACE AREA, which is generated by wind action alone.

(d) Monitoring Requirements

(1) When on-site earth-moving activities occur, the owner or operator shall conduct continuous direct-reading near real-time ambient monitoring of PM_{10} concentrations pursuant to paragraph (d)(3).

(2) If the PM_{10} concentration exceeds 25 micrograms per cubic meter, as measured pursuant to paragraph (d)(3) and as determined pursuant to paragraph (d)(9), the owner or operator shall cease on-site earth-moving activities, apply dust suppressant to fugitive dust sources, or implement other dust control measures as

necessary until the PM_{10} concentration is equal to or less than 25 micrograms per cubic meter averaged over 30 minutes.

(d) (3) The owner or operator conducting on-site earth-moving activities shall install PM_{10} monitors and conduct ambient PM_{10} monitoring:

(A) In accordance with a U.S. EPA-approved equivalent method for PM_{10} monitoring or using a Rule 1466 Approved PM_{10} Monitor;

(B) Using a minimum of two monitors, placing each monitor as close to the property line as feasible, where:

(i) One or more monitors is in the seasonal prevailing wind direction upwind of the area(s) of on-site earth-moving activity, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site; and

(ii) One or more monitors is in the seasonal prevailing wind direction downwind of the area(s) of on-site earth-moving activity;

(C) Using PM_{10} monitors that are identical in: make and model, settings, and configuration; and

(D) Using ambient PM_{10} monitors that are operated, maintained, and calibrated in accordance with appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent methods for PM_{10} and manufacturer's instructions.

(4) On and before December 31, 2021, the owner or operator shall collect ambient PM_{10} data with a data acquisition system (DAS) that is capable of logging direct-reading near real-time data providing the date, time, and PM_{10} concentration in micrograms per cubic meter every 10 minutes or less.

(5) On and after January 1, 2022, the owner or operator shall collect ambient PM_{10} data with a DAS that is capable of logging direct-reading near real-time data providing the date and time, calibrated to Pacific Standard Time (PST), and PM_{10} concentration in micrograms per cubic meter every 1 minute or less.

(6) On and after January 1, 2022, the owner or operator shall operate PM_{10} monitors with the heated sampler inlet on.

(7) On and after January 1, 2022, prior to conducting any on-site earth-moving activities, and weekly thereafter, the owner operator shall conduct intra-instrument precision tests with the PM_{10} monitors in accordance with *Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision*, or make available documentation and supporting data certifying that such intra-instrument precision tests were run by an

equipment rental company or other third party, that demonstrate an intra-instrument precision of:

(d) (7) (A) No more than 25 percent as calculated pursuant to Step 7a in *Appendix 2* when ambient PM_{10} concentrations are equal to or greater than 15 micrograms per cubic meter; or

(B) No more than 5 micrograms per cubic meter as calculated pursuant to Step 7b in *Appendix 2* when ambient PM_{10} concentrations are less than 15 micrograms per cubic meter.

(8) On and after January 1, 2022, each day prior to conducting on-site earth-moving activities, the owner or operator shall conduct a passing zero check on each PM_{10} monitor in accordance with:

(A) Steps 4 and 5 of *Appendix 2* that demonstrates an average PM_{10} concentration of 0 ± 3 micrograms per cubic meter; or

(B) Manufacturer's instructions if a monitor is operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber.

(9) The owner or operator shall calculate the PM_{10} concentration as a 120-minute rolling average, where:

(A) The initial average starts at the commencement of on-site earth-moving activities and ends 120 minutes after the commencement of on-site earth-moving activities;

(B) On and before December 31, 2021, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 10 minutes and cover the previous 120-minute period;

(C) On and after January 1, 2022, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 1 minute and cover the previous 120-minute period;

(D) The PM_{10} concentration is calculated by subtracting the results of the upwind monitor(s) from the downwind monitor(s) for the same averaging period;

(i) If the wind direction is in the seasonal prevailing wind direction, then the monitor(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the upwind monitor(s) and the monitor(s) described pursuant to clause (d)(3)(B)(ii) shall be designated as the downwind monitor(s); and

(d) (9) (D) (ii) If there is greater than a ± 90 degree change in wind direction from the seasonal prevailing wind direction, then the monitor(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the downwind monitor(s) and the monitor(s) described pursuant to clause (d)(3)(B)(ii) shall be designated as the upwind monitor(s);

(E) If there is more than one upwind monitor, the upwind result is the average concentration of all upwind monitors for the same rolling averaging period;

(F) If there is more than one downwind monitor, the downwind result is the maximum concentration of any of the downwind monitors for the same rolling averaging period;

(G) On and before December 31, 2021, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every 10 minutes and shall cover the previous 120-minute period; and

(H) On and after January 1, 2022, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every one minute and shall cover the previous 120-minute period.

(10) An owner or operator that elects to move the monitors accordingly when there is a change in wind direction in place of meeting the requirements specified in clauses (d)(3)(B)(i), (d)(3)(B)(ii), (d)(9)(D)(i), and (d)(9)(D)(ii), shall:

(A) Place a minimum of one upwind monitor in the upwind direction of the area(s) of on-site earth-moving activity, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site;

(B) Place a minimum of one downwind monitor in the downwind direction of the area(s) of on-site earth-moving activity; and

(C) Move the monitor(s) in subparagraph (d)(10)(A) to the new upwind location and the monitor(s) in subparagraph (d)(10)(B) to the new downwind location when there is a change in wind direction.

(11) In the event that a DAS fails to log ambient PM_{10} data pursuant to paragraph (d)(5) or that the data management system integrated with the PM_{10} monitor(s) and

DAS(s) fails to calculate PM_{10} concentrations pursuant to subparagraph (d)(9)(C) due to a technical issue beyond the reasonable control of an owner or operator, including, but not limited to, internet connection disruptions and computer malfunctions, the owner or operator shall:

(d) (11) (A) Restore the DAS or data management system to working condition as soon as practicable and no later than the start of the next working day; and

(B) Manually record the PM_{10} concentration from the monitor(s) associated with the non-operational DAS once every 10 minutes or less and calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the DAS is restored or calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the data management system is restored.

(12) When conducting ambient PM_{10} monitoring as required in paragraph (d)(1), the owner or operator shall monitor wind direction and speed using a minimum of one stationary anemometer or wind sensor that:

(A) Is sited over open, level terrain within the project site with minimal obstructions to the wind flow at a minimum height of eight feet above grade;

(B) Meets the performance criteria of:

(i) Wind direction accuracy of ± 7 degrees and resolution of 1 degree; and

(ii) Wind speed accuracy of 2 miles per hour (mph) or ± 5 percent of the observed wind speed, whichever is greater, and resolution of 1 mph;

(C) Has a National Institute of Standards and Technology (NIST) Traceability certification;

(D) Is equipped with a data logger that records wind direction and speed data once every 1 minute or less and archives the recorded wind direction and speed data, including the date and time, calibrated to PST; and

(E) Is operated, calibrated, and maintained in accordance with manufacturer's specifications, but no less frequent than once every 6 months of cumulative operation.

(13) The Executive Officer may approve a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor if the PM_{10} monitor meets the specifications listed in *Appendix 1 – Rule 1466 Approved PM_{10} Monitors*. The request for a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor shall:

(A) Be submitted to Rule1466ApprovedMonitors@aqmd.gov;

(d) (13) (B) Include a description of the PM_{10} monitor, any accessories, and all monitor specifications; and

(C) Include documentation demonstrating compliance with each specification listed in *Appendix 1*.

(e) Requirements to Minimize Fugitive Dust Emissions

(1) On and before December 31, 2021, an owner or operator shall not conduct on-site earth-moving activities unless the area is surrounded with fencing that is a minimum of 6 feet tall and at least as tall as the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity area may be excluded from this requirement if that section:

(A) Has a solid physical barrier, such as a solid wall or other solid feature that minimizes air flow, that is a minimum of 6 feet tall but at least 6 inches taller than the height of the tallest stockpile; or

(B) Does not have on-site earth-moving activity occurring within 300 feet from the perimeter of that section.

(2) On and after January 1, 2022, an owner or operator shall not conduct on-site earth-moving activities unless the area is surrounded with fencing that is a minimum of 6 feet tall but at least 6 inches taller than the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent or a mesh windscreen that has a shade value or opacity of 85 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity area may be excluded from this requirement if that section meets the conditions as specified in subparagraph (e)(1)(A) or (e)(1)(B).

(3) An owner or operator conducting on-site earth-moving activities shall:

(A) Adequately wet to the depth of earth-moving activity and allow time for penetration; and

(B) Adequately wet at frequencies to prevent the generation of visible dust plumes.

(4) An owner or operator that is moving vehicles on, within, or off a site shall:

(A) Post signs at all entrances of the site to designate the speed limit as 15 mph;

(B) Stabilize the surface of all vehicular traffic and parking areas by applying gravel, paving, chemical stabilizers pursuant to paragraph (e)(13), or dust suppressant;

(C) Not allow any track-out outside of the property line that is 25 feet or more in cumulative length. Remove any track-out at a minimum frequency of

once each day using a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles;

(e) (4) (D) Clean the soil from the exterior of trucks, trailers, and tires prior to the truck leaving the site, without the use of forced air; and

(E) Utilize at least one of the following measures at each vehicle egress from the site to a public road:

(i) Install a pad consisting of washed gravel (minimum-size: 1 inch), maintained in a clean condition, to a depth of at least 6 inches and extending at least 30 feet wide and at least 50 feet long;

(ii) Pave the surface extending at least 100 feet from the property line and at least 30 feet wide;

(iii) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least 24 feet long and 30 feet wide; or

(iv) Install and utilize a wheel washing system to remove soil from tires and vehicle undercarriages.

(5) An owner or operator conducting on-site earth-moving activities shall ensure that stockpiles with any soil with applicable toxic air contaminant(s) be:

(A) Segregated from non-contaminated stockpiles;

(B) Labelled with "South Coast AQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil";

(C) Maintained to avoid steep sides or faces that exceed the angle of repose;

(D) No more than 400 cubic yards of soil;

(E) Maintained to minimize fugitive dust emissions containing toxic air contaminants by applying chemical stabilizers pursuant to paragraph (e)(13), applying dust suppressant, or completely covering pursuant to paragraph (e)(14); and

(F) Either chemically stabilized pursuant to paragraph (e)(13) and/or completely covered pursuant to paragraph (e)(14) at all times when earth-moving activities and ambient PM_{10} monitoring are not occurring.

(6) An owner or operator conducting truck and trailer loading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to loading;

(B) Empty the loader bucket slowly so that no visible dust plumes are generated;

(e) (6) (C) Minimize the drop height from the loader bucket;

(D) Maintain at least 6 inches of space between the soil and the top of the truck bed and trailer while transporting within a site; and

(E) Completely cover the truck bed and trailer prior to leaving the site.

(7) An owner or operator conducting truck and trailer unloading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to unloading; and

(B) Empty the trailer slowly so that no visible dust plumes are generated.

(8) The owner or operator shall immediately remove any spilled soil.

(9) The owner or operator shall cease on-site earth-moving activities if the wind speed is greater than 15 mph averaged over a 15-minute period or the instantaneous wind speed exceeds 25 mph.

(10) During on-site earth-moving activities, the owner or operator shall have an on-site dust control supervisor that:

(A) Is employed by or contracted with the owner or operator;

(B) Is located on the site during working hours;

(C) Is in a position to expeditiously employ sufficient dust control measures to ensure compliance with all rule requirements;

(D) Has completed the South Coast AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(E) Has the following credentials, if asbestos is an applicable toxic air contaminant:

(i) Successfully completed the Asbestos Abatement Contractor/Supervisor course pursuant to the Asbestos Hazard Emergency Response Act (AHERA), and obtained and maintained accreditation as an AHERA Asbestos Abatement Contractor/Supervisor; and

(ii) Trained on the provisions of 40 CFR Part 61.145, 61.146, 61.147 and 61.152 (Asbestos NESHAP provisions) and Part 763, and has the means to comply with these provisions.

(11) An owner or operator shall apply a chemical stabilizer pursuant to paragraph (e)(13) and/or use a cover pursuant to paragraph (e)(14) on potential sources of fugitive dust when earth-moving activities are not occurring in the specific location(s) containing the potential source(s) of fugitive dust.

(e) (12) An owner or operator shall inspect daily, including days when no on-site earth-moving activities are occurring, labeled stockpiles pursuant to subparagraph (e)(5)(B) and stabilized or covered stockpiles pursuant to (e)(5)(F).

(A) For a stabilized stockpile, such inspections shall include a demonstration of stabilization by one or more of the applicable test methods contained in the most current version of the South Coast AQMD *Rule 403 Fugitive Dust Implementation Handbook* or Volumes I and II of South Coast AQMD's *Dust Control in the Coachella Valley*.

(B) For a covered stockpile, such inspections shall include a visual inspection of all seams and plastic cover surfaces to ensure that no portion of the soil is exposed to the atmosphere.

(13) When utilizing a chemical stabilizer, an owner or operator shall:

(A) Ensure the chemical stabilizer meets any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation; and

(B) Unless otherwise indicated, use a sufficient concentration of the chemical stabilizer and an application frequency sufficient to maintain a stabilized surface and no less than what is specified by the manufacturer for the period of inactivity.

(14) When using a cover for stockpiles, an owner or operator shall ensure the cover:

(A) Is at least 10 mil thick plastic sheeting that overlaps a minimum of 24 inches; and

(B) Is anchored and secured so that no portion of the soil is exposed to the atmosphere.

(15) An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area shall:

(A) Only conduct earth-moving activities at a school or at a site that is adjoining a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school is in session;

(B) Not conduct earth-moving activities at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area if there is a school sponsored activity or youth organized sports taking place at that site;

(e) (15) (C) Handle excavated soils with applicable toxic air contaminant(s) by:

(i) Immediately placing soil in a leak-tight container whereby any contained solids or liquids are prevented from escaping or spilling out;

(ii) Directly loading soil in truck beds, trailers, and bins for transport, applying chemical stabilizer pursuant to paragraph (e)(13) or dust suppressant, and completely covering prior to transporting; or

(iii) Stockpiling pursuant to paragraph (e)(5), in a fenced area that is not accessible to the general public, and locked when not in use; and

(D) Within five days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

(f) Notification Requirements

(1) The owner or operator shall electronically submit an initial notification to the Executive Officer, using a format approved by the Executive Officer, of the intent to conduct any on-site earth-moving activities.

(A) Initial notifications shall be submitted:

(i) At least 72 hours but no more than 30 days prior to conducting any earth-moving activities on any site meeting the applicability requirements of subdivision (b); or

(ii) As soon as the information becomes available but no later than 48 hours after the information becomes available that on-site earth-moving activities of soil with applicable toxic air contaminant(s) exceed 50 cubic yards.

(B) Initial notifications shall include the following requirements:

(i) Name, address, telephone number, and e-mail address of the owner or operator;

(ii) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(iii) Project name and, if applicable, the project identification number from the designating agency;

(iv) Project location (address and/or coordinates);

(v) Identify whether the site is a school, joint use agreement property, adjacent athletic area, or is adjoining a school, joint use agreement property, or adjacent athletic area;

(f) (1) (B) (vi) A map indicating the specific location(s) of each on-site earth-moving activity and the concentrations of the applicable toxic air contaminant(s) and location of PM_{10} monitors;

(vii) A description of the on-site earth-moving activities, estimated volume of soil with applicable toxic air contaminant(s), and a schedule that includes the anticipated start and completion dates of on-site earth-moving activities;

(viii) Current and/or previous type of operation(s) and use(s) at the site;

(ix) Applicable exemption(s); and

(x) Whether the notice being provided is a revised notification.

(2) Notification Updates

Initial notifications pursuant to paragraph (f)(1) shall be updated when any of the following conditions arise:

(A) Earlier Start Date

A change in the start date of on-site earth-moving activities to an earlier date shall be reported to the South Coast AQMD no later than 72 hours before any on-site earth-moving activities begin.

(B) Later Start Date

A delay in the start date of on-site earth-moving activities shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than the original start date.

(C) Change in Exemption Status

Any change(s) in exemption status pursuant to subdivision (k) shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than 48 hours after the information becomes available.

(D) Completion Date

The completion date of on-site earth-moving activities shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities are completed.

(3) Within 72 hours of an exceedance of the PM_{10} emission limit specified in paragraph (d)(2), the owner or operator shall electronically submit a notification to the Executive Officer, using a format approved by the Executive Officer, of the exceedance and shall include the following information:

(f) (3) (A) Name, address, telephone number, and e-mail address of the owner or operator;

(B) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(C) Project name and, if applicable, the project identification number from the designating agency;

(D) Project location (address and/or coordinates);

(E) PM_{10} monitoring results and wind direction and speed results pursuant to subdivision (d), including location of monitors, result, date and time of exceedance(s), 12 hours before first exceedance, and 12 hours after last exceedance;

(F) On-site earth-moving activities occurring at the date and time of exceedance(s); and

(G) Dust control measure(s) taken to mitigate fugitive dust.

(g) Signage Requirements

When conducting on-site earth-moving activities, the owner or operator shall install and maintain project signage.

(1) Unless otherwise approved in writing by the Executive Officer, signage shall:

(A) Be installed at all entrances and at intervals of 1,000 feet or less along the property line or perimeter of the site, with a minimum of one sign along each side;

(B) Be located between 6 and 8 feet above grade from the bottom of the sign;

(C) Display lettering at least 4 inches tall with text contrasting with the sign background; and

(D) Display the following information:

(i) Local or toll-free phone number for the site contact or pre-recorded notification center that is accessible 24 hours a day; and

(ii) Warning statement:

"THIS SITE CONTAINS SOILS THAT CONTAIN THE FOLLOWING CHEMICALS: [LIST APPLICABLE TOXIC AIR CONTAMINANT(S)]
TO REPORT ANY DUST LEAVING THE SITE PLEASE CALL [FACILITY CONTACT AND PHONE NUMBER] OR THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG".

(g) (2) If signage pursuant to paragraph (g)(1) exceeds 48 inches by 96 inches, the owner or operator or designating agency shall include the warning statement referenced in clause (g)(1)(D)(ii), displaying lettering at least 4 inches tall with text contrasting with the sign background, but may use 2.5 inch tall lettering to list applicable toxic air contaminant(s). All other signage requirements set forth in paragraph (g)(1) shall remain the same. If signage continues to exceed 48 inches by 96 inches with these parameters, the owner or operator or designating agency may use alternative signage as set forth in paragraph (g)(3).

(3) The owner or operator or designating agency may use alternative signage approved by the Executive Officer pursuant to subdivision (j). Notwithstanding subdivision (j), the request shall include a visual representation of the alternative sign, including proposed lettering height, and locations and, at a minimum, the alternative signage shall:

(A) Display text contrasting with the sign background; and

(B) Display the following warning statement:

"THIS SITE CONTAINS SOILS THAT CONTAIN THE FOLLOWING CHEMICALS: [LIST APPLICABLE TOXIC AIR CONTAMINANT(S)] TO REPORT ANY DUST LEAVING THE SITE PLEASE CALL THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG".

(4) The owner or operator may be excluded from installing and maintaining project signage pursuant to subparagraph (g)(1)(A) at any entrance(s) or interval(s) along the property line or perimeter of the site that is not visible and not accessible to the public unless the site is a school, joint use agreement property, or adjacent athletic area or the site is adjoining a school, joint use agreement property, or adjacent athletic area.

(h) Recordkeeping Requirements

The owner or operator shall maintain records for a period of not less than 3 years and shall make such records available to the Executive Officer upon request. At a minimum, records shall be maintained daily and shall include:

(1) Inspections of all stabilized or covered stockpiles containing soils with applicable toxic air contaminant(s) and all re-stabilization, cover repair, and label maintenance activities, including dates and times the specific activities were conducted;

(2) Results of wind and PM_{10} monitoring, including: ambient PM_{10} data; rolling average PM_{10} concentrations and calculations; wind direction and speed

corresponding to the rolling average PM_{10} concentrations; movement of monitoring instruments corresponding to wind direction changes; instrument make and model; settings; proof of valid calibration in accordance with manufacturer's recommended schedule; configuration; calibration, correction, and correlation factors; maintenance; operator training; daily instrument performance check records and manual zero or auto-check results; weekly zero calibration records and intra-instrument precision test data and calculation results; and all instrument logs for all monitoring instruments;

(h) (3) All instrument maintenance activities, including: zero calibration, cleaning, filter replacement, and performance checks, including dates and times of the specific procedures;

(4) Documentation of all DAS and data management system failures, including date and time of the failure, date and time of the correction, the technical issue(s) causing the failure, and activities performed to restore the failed DAS or data management system to working condition;

(5) On-site earth-moving activities conducted and the corresponding volume of soil with applicable toxic air contaminant(s);

(6) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest;

(7) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and

(8) A copy of all submitted notifications for the project.

(i) Executive Officer Designated Sites

(1) The Executive Officer may designate a site if the Executive Officer has evidence that the site contains soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16), after consultation with U.S. EPA, DTSC, the State Water Resources Control Board, the Regional Water Quality Control Board, and/or local, county, or state regulatory agencies, and consideration of the following:

(A) Site history, including current and/or previous type(s) of operation(s) and use(s) at the site and regulatory history;

(B) Concentration(s) of applicable toxic air contaminant(s) in the soil;

(C) Background concentration(s) of applicable toxic air contaminant(s);

(D) Volume of soil with applicable toxic air contaminant(s);

(i) (1) (E) Distance to a residence, park, school, joint use agreement property, adjacent athletic area, or a site adjoining a school, joint use agreement property, or adjacent athletic area;

(F) Meteorological data;

(G) Health risk information or other data provided by the owner or operator, if available; and

(H) Ambient monitoring data and other applicable data, if available.

(2) Prior to making a determination, the Executive Officer will notify the owner or operator in writing that the site may be subject to this rule.

(A) In the event the owner or operator exercises this opportunity to demonstrate that this rule does not apply, the owner or operator shall submit information to the Executive Officer within 14 days of the notification substantiating why the site should be excluded from this rule.

(B) Upon final determination, the Executive Officer will notify the owner or operator in writing if the site is subject to this rule.

(3) During the determination period, the owner or operator shall comply with the provisions of this rule or cease all on-site earth-moving activities until a determination is made.

(j) Alternative Provisions

(1) If requesting an alternative provision pursuant to paragraph (g)(3), the owner or operator or designating agency shall submit the request in writing at least 30 days prior to conducting any earth-moving activities and include all information to the Executive Officer to substantiate its position.

(2) The Executive Officer may request additional information from the owner or operator or designating agency.

(3) The owner or operator or designating agency shall submit all requested information within 14 days of the request for additional information.

(4) The Executive Officer will review the request for an alternative provision and will approve or reject the data and notify the owner or operator or designating agency in writing. Approved alternative provisions may not be used retroactively.

(5) Alternative provisions that were approved and notified in writing by the Executive Officer before June 4, 2021 shall be deemed compliant with the requirements of the applicable provisions of the rule, shall remain in effect only for the period of time and for the specific project for which they were granted, and shall not be renewed or extended.

(k) Exemptions

(1) The owner or operator may be exempt from one or more provisions of this rule provided there is written confirmation that the designating agency under subparagraphs (b)(1)(A) through (b)(1)(D) has consulted with the Executive Officer and has determined that the provision(s) are not needed based on information specified in subparagraphs (i)(1)(A) through (i)(1)(H).

(2) On-site earth-moving activities performed within an enclosed system vented to South Coast AQMD permitted air pollution control equipment shall be exempt from all requirements except: subparagraphs (e)(4)(C) through (e)(4)(E), subparagraphs (e)(6)(D) and (e)(6)(E), and subdivisions (f), (g), and (h).

(3) Linear trenching for natural gas, power, sewer, and water projects on roadways with soil with applicable toxic air contaminant(s), directly loaded into a truck bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(4) On-site earth-moving activities consisting only of excavation activities of soil with applicable toxic air contaminant(s) of less than 500 cubic yards, directly loaded into a truck bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(5) On-site earth-moving activities conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities. Written notification shall include written emergency declaration from the authorized officer.

(6) On-site earth-moving activities conducted by essential service utilities to provide electricity, natural gas, telephone, water, or sewer during periods of service outages and emergency disruptions shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities.

Table I – Applicable Toxic Air Contaminants

CAS Number	Substance
7440-38-2	**arsenic and arsenic compounds (inorganic)**
	including, but not limited to:
	arsenic compounds (inorganic)
7784-42-1	arsine
1332-21-4	Asbestos
7440-43-9	cadmium and cadmium compounds
57-74-9	chlordane
	dibenzo-p-dioxins (chlorinated)
1746-01-6	tetrachlorodibenzo-p-dioxin, 2,3,7,8-
40321-76-4	pentachlorodibenzo-p-dioxin, 1,2,3,7,8-
39227-28-6	hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-
57653-85-7	hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-
19408-74-3	hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-
35822-46-9	heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-
3268-87-9	octachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8,9-
41903-57-5	total tetrachlorodibenzo-p-dioxin
36088-22-9	total pentachlorodibenzo-p-dioxin
34465-46-8	total hexachlorodibenzo-p-dioxin
37871-00-4	total heptachlorodibenzo-p-dioxin
72-54-8	dichlorodiphenyldichloroethane
72-55-9	dichlorodiphenyldichloroethylene
50-29-3	dichlorodiphenyltrichloroethane

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
18540-29-9	**chromium (hexavalent) and chromium compounds**
	including, but not limited to:
10294-40-3	barium chromate
13765-19-0	calcium chromate
7758-97-6	lead chromate
10588-01-9	sodium dichromate
7789-06-2	strontium chromate
13530-65-9	zinc chromate
7439-92-1	**lead and lead compounds (inorganic, including elemental lead)**
	including, but not limited to:
	lead compounds (inorganic)
301-04-2	lead acetate
7758-97-6	lead chromate
7446-27-7	lead phosphate
1335-32-6	lead subacetate
7439-97-6	**mercury and mercury compounds (inorganic)**
	including, but not limited to:
7487-94-7	mercuric chloride
593-74-8	methyl mercury

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
7440-02-0	**nickel and nickel compounds**
	including, but not limited to:
373-02-4	nickel acetate
3333-67-3	nickel carbonate
13463-39-3	nickel carbonyl
12054-48-7	nickel hydroxide
1313-99-1	nickel oxide
12035-72-2	nickel subsulfide
1271-28-9	nickelocene
	refinery dust from the pyrometallurgical process
1336-36-3	**polychlorinated biphenyls (PCBs)**
32598-13-3	3,3’,4,4’-tetrachlorobiphenyl (PCB 77)
70362-50-4	3,4,4’,5-tetrachlorobiphenyl (PCB 81)
32598-14-4	2,3,3’,4,4’-pentachlorobiphenyl (PCB 105)
74472-37-0	2,3,4,4’,5-pentachlorobiphenyl (PCB 114)
31508-00-6	2,3’,4,4’,5-pentachlorobiphenyl (PCB 118)
65510-44-3	2,3',4,4',5'-pentachlorobiphenyl (PCB 123)
57465-28-8	3,3’,4,4’,5-pentachlorobiphenyl (PCB 126)
38380-08-4	2,3,3’,4,4’,5-hexachlorobiphenyl (PCB 156)
69782-90-7	2,3,3’,4,4’,5’-hexachlorobiphenyl (PCB 157)
52663-72-6	2,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 167)
32774-16-6	3,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 169)
39635-31-9	2,3,3’4,4’,5,5’-heptachlorobiphenyl (PCB 189)

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
	polycyclic aromatic hydrocarbons (PAHs)
56-55-3	benzo[a]anthracene
50-32-8	benzo[a]pyrene
205-99-2	benzo[b]fluoranthene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
53-70-3	dibenz[a,h]anthracene
193-39-5	indeno[1,2,3-c,d]pyrene

Appendix 1 – Rule 1466 Approved PM_{10} Monitors

The Executive Officer may approve PM_{10} monitors that meet the following physical and performance requirements.

1. Physical Requirements
   - 1.1. PM_{10} monitors shall be continuous direct-reading near-real time monitors and shall monitor particulate matter less than 10 microns.
   - 1.2. PM_{10} monitors shall be equipped with:
     - 1.2.a. Omni-directional heated sampler inlet;
     - 1.2.b. Sample pump with active flow control mechanism;
     - 1.2.c. Enclosure;
     - 1.2.d. Data logger capable of logging each data point with average concentration, time, date, and data point number; and
     - 1.2.e. Conductive tubing that minimizes particle loss for any external tubing used to carry sampled air prior to measurement.

2. Performance Requirements
   - 2.1 PM_{10} monitors shall have the following minimum performance standards:
     - 2.1.a. Range: 0 - 10,000 $\mu g/m^3$;
     - 2.1.b. Accuracy, determined through factory testing against a U.S. EPA Federal Reference Method or Federal Equivalent Method, for a minimum of 30 measurements each averaged over 24 hours, to show:
       - 2.1.b.i. ± 5% of reading ± precision; or
       - 2.1.b.ii. Coefficient of determination (R^2) of ≥ 0.95 through simple linear regression;
     - 2.1.c. Resolution: 1.0 $\mu g/m^3$;
     - 2.1.d. Flow control accuracy of ± 5% of factory setpoint; and
     - 2.1.e. Measurement Cycle: User selectable (30 minute and 2 hour).
   - 2.2 Monitors that have a valid *Monitoring Certification Scheme* certification meeting the latest version of the *Monitoring Certification Scheme* (*MCERTS): Performance Standard for Indicative Ambient Particulate Monitors* may be exempt from meeting the performance requirements listed above, but shall meet all stated physical requirements.

3. Quality Assurance/Quality Control Requirements

In order to ensure the validity of the PM_{10} measurements performed, there shall be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the owner or operator to adequately supplement QA/QC Plans to include the following critical features: instrument calibration, instrument maintenance, operator training, and daily instrument performance checks.

Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision

An owner or operator shall perform the following procedures to demonstrate the intra-instrument precision of all PM_{10} monitors as required in paragraph (d)(7).

1. Ensure monitors are identical in make and model, settings, and configuration.
2. Ensure monitor inlets are at the same height and located within 4 meters of each other but no less than 1 meter apart for the duration of the test.
3. Power on the monitors and turn on the heated sampler inlet. Allow the monitors to warm-up per manufacturer's recommendations or when readings have stabilized.
4. For each monitor, conduct a zero calibration in accordance with manufacturer's instructions, then conduct a manual zero check by removing any sampling inlet and installing a filter, rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles, on the inlet of the monitor for a minimum of 10 minutes. If the monitors are operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber, conduct the zero check in accordance with manufacturer's instructions.
5. Log the PM_{10} concentration reading every minute, and calculate and record the average of the readings of the manual zero check. The average of the manual zero check readings shall be 0 ± 3 micrograms per cubic meter before proceeding to Step 6. If conducting an auto-zero check, the monitor shall pass the zero check in accordance with manufacturer's instructions before proceeding to Step 6. If any monitors fail either the manual zero check or the auto-zero check, the owner or operator shall conduct a zero calibration in accordance with manufacturer's instructions and/or correct any issue(s) causing the failure, followed by conducting a passing zero check on the PM_{10} monitor(s) in accordance with Steps 4 and 5.
6. Remove the filter and install the monitor inlet as required. After waiting 10 minutes, operate the monitors simultaneously and log the PM_{10} concentration reading every minute for a minimum of 60 minutes.

7. Calculate the intra-instrument precision using either of the following equations:
   a. Intra-instrument precision in relative standard deviation or correlation of variation (%) when ambient PM_{10} concentrations are greater than or equal to 15 micrograms per cubic meter:

$$P = \frac{S_t}{C_t} \, x \, 100\%$$

where,

P = Intra-instrument precision in percent (%);

S_t = Standard deviation of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration, to be calculated as:

$$S_t = \sqrt{\frac{\sum(x_i - \bar{x})^2}{(n-1)}}$$

where,

x_i = Mean of the PM_{10} concentration readings for a tested monitor over time t of testing duration,

$\bar{x}$ = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration, and

n = Number of tested monitors; and

C_t = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration; or

   b. Intra-instrument precision in absolute value (micrograms per cubic meter) when ambient PM_{10} concentrations are less than 15 micrograms per cubic meter:

$$P = S_t$$

where,

P = Intra-instrument precision in micrograms per cubic meter, and

S_t = Standard deviation of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration.

8. Record the results of the calculations.