

**Duke Realty Foundry LP/Prologis
7825 San Leandro Street
Oakland, California 94621**

February 12, 2026

Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: 7825 San Leandro Street – Acknowledgement Statement

7825 San Leandro Street
Oakland, California 94621
ACDEH Case No. RO0003535

Dear Alameda County Environmental Health Department,

Duke Realty Foundry LP/Prologis has retained the environmental consultant referenced on the attached *Shallow Soil Sample Collection to Assess Soil Conditions at Stormwater Treatment System and Drop Inlets* dated February 12, 2026, for the project referenced above. The attached report is being submitted on behalf of Duke Realty Foundry LP/Prologis.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACEHD's FTP server and the State Water Resources Control Board GeoTracker website.

Sincerely,



Brett Richer
Vice President, Global Environmental & Engineering Services
Duke Realty Foundry LP/Prologis

Technical Memorandum

To: Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94502

From: Peter Zawislanski, PG, CHg
Senior Principal Hydrogeologist
Terraphase Engineering Inc.
Amber M. Koster, PE
Senior Associate Engineer
Terraphase Engineering Inc.

cc: Gavin Polite Fisco
Director, Global Environmental and
Engineering Services, Duke Realty
Foundry LP

Date: February 12, 2026 Project No.: 0172.033.019

Subject: **AB&I Redevelopment Site, 7825 San Leandro Street, Oakland, California, Shallow Soil Sample Collection to Assess Soil Conditions at Stormwater Treatment System and Drop Inlets**
(Site Cleanup Program Case Number: RO0003535)

Terraphase Engineering Inc. (Terraphase) prepared this technical memorandum on behalf of Duke Realty Foundry LP (Prologis) to document shallow soil sampling activities conducted to assess conditions related to the stormwater treatment system and drop inlets as part of the Certified Unified Program Agencies (CUPA) closure requirements for the American Brass & Iron (AB&I) Redevelopment Site at 7825 San Leandro Street, Oakland, California (Site; Figure 1). The work included advancing five borings adjacent to the stormwater treatment system and drop inlets for soil sample collection.

Shallow Soil Sampling Activities

Prior to boring advancement, Terraphase obtained a drilling permit from Alameda County Public Works Agency. Terraphase met with Safe2Core on site on January 6, 2026, to locate and mark out private utilities at proposed boring locations and mark the Site for Underground Services Alert. On January 14, 2026, five shallow soil borings were advanced to approximately 4 feet below ground surface (bgs) by Gregg Drilling, under Terraphase oversight, using a concrete corer and a hand auger in accordance with Terraphase Standard Operating Procedure 508-23-00, "Soil Boring Installation Using a Hand Auger" (Attachment A). Location SB-03 was adjacent to the stormwater treatment system on the northwestern corner of the Site and locations SB-01, SB-02, SB-04 and SB-05 were adjacent to drop inlets in accordance with Section 8.6 of the *Facility CUPA Closure Plan Part A: Hazardous Waste Closure* (Closure Plan);¹ Section 8.6 of the Closure Plan and associated figure are presented at Attachment B.

¹ AB&I Foundry, *Facility CUPA Closure Plan Part A: Hazardous Waste Closure AB&I Foundry, 7825 San Leandro Street, Oakland, California*, January 30, 2023.

Terraphase field staff logged the soil cuttings and screened for volatile organic compounds with a photoionization detector during hand augering. Terraphase then collected soil samples from 2 and 4 feet bgs to be analyzed for the following, in accordance with the Closure Plan:

- CAM 17 metals;
- Polycyclic aromatic hydrocarbons (PAHs); and
- Aquatic Toxicity (Polisini and Miller, CDFG 1988 method, or equivalent).

Field duplicate samples were collected from 2 and 4 feet bgs from boring SB-02. Soil samples were immediately placed in an ice-chilled cooler and submitted to Enthalpy Analytical under chain-of-custody protocols.

After soil sample collection, remaining soil cuttings were placed in a labeled 55-gallon drum in the investigation-derived waste staging area and a waste characterization sample was collected for waste disposal, pending analysis. Borings were then grouted and finished to match the surrounding surface. Hand-augering tools were decontaminated in between each sample location.

Deviations from the Scope

During hand augering, location refusal was encountered in boring SB-05 at 1.5 feet bgs due to gravel encountered in the boring, which caused the boring to cave in. Three step-out locations were attempted in the area which also encountered refusal. Due to refusal, only one sample was collected from boring SB-05 from 1.5 feet bgs instead of samples from 2 and 4 feet bgs.

Soil Sampling Results

The laboratory analytical report is included as Attachment C. Shallow soil sample results were screened against the following screening levels, as presented in Table 1:

- California Department of Toxic Substances Control screening levels (DTSC-SLs) for commercial/industrial land-use scenarios;²
- United States Environmental Protection Agency Regional Screening Levels for industrial soil;³ and
- San Francisco Bay Regional Water Quality Control Board environmental screening levels for direct-exposure human health risk in commercial/industrial land-use scenarios (HHRL C/I ESL).⁴

² California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Modified Screening Levels in Commercial/Industrial (C/I) Scenarios, June 2020 rev. April 2025, DTSC-SLs Soil C/I (2025)

³ United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (TR=1E-06, HQ=1) , November 2024, EPA RSL (Nov 2024, HQ=1.0) - Industrial Soil

⁴ San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) Human Health Risk Levels (HHRL) in Commercial/Industrial (C/I) Scenarios, July 2025-Rev 3, Soil Direct Exposure HHRL C/I ESL (July 2025)



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- Regional background arsenic concentrations.⁵

Arsenic was detected in all soil samples with concentrations ranging from 1.1 to 15 milligrams per kilogram (mg/kg), exceeding risk-based screening levels, but below regional background (11 mg/kg), except in two samples (12 and 15 mg/kg). No other metals were detected above screening levels.

Dibenz(a,h)anthracene was detected slightly above the DTSC-SL and HHRL C/I ESL of 0.41 and 0.51 mg/kg, respectively, in the SB-02-2 feet bgs duplicate sample at a concentration of 0.56 mg/kg. No other PAHs were detected above screening levels.

An aquatic toxicity bioassay was conducted on the soil samples with juvenile *P. promelas* over a four-day period. Each soil sample passed the aquatic toxicity bioassay test period with 100 percent survival.

Laboratory Data Validation

Terraphase reviewed the quality of laboratory analytical reports for this sampling event. In general, the data are valid and usable. Additional details of the data quality review are included in the soil sampling *Data Validation Report* included as Attachment D.

Conclusion

Based on shallow soil sample results, stormwater infiltration has not affected the subsurface soil at the drop inlets or the stormwater treatment system area. The requirements of Section 8.6 of the Closure Plan have been completed.

Closing

If you have any questions or comments regarding this submittal, please contact Amber Koster at 510-455-0522 or Peter Zawislanski at 510-645-1858.

Sincerely,

for Terraphase Engineering Inc.



Amber M. Koster, PE
Senior Associate Engineer



Peter Zawislanski, PG, CHg
Senior Principal Hydrogeologist



⁵ Dylan Jacques Duvergé, *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*, December 2011,
https://www.waterboards.ca.gov/sanfranciscobay/water_issues/2011_Arsenic_Background_Duverge.pdf.

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Attachments (6):

- Table 1 – Soil Sample Results
- Figure 1 – Shallow Soil Sample Locations
- Attachments:
 - A Standard Operating Procedure – Soil Boring Installation Using Hand Auger
 - B Excerpt from the Facility CUPA Closure Plan Part A
 - C Laboratory Analytical Report
 - D Data Validation Report



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Table



Table 1
Soil Sample Results
Shallow Soil Sample Collection to Assess Soil Conditions at Stormwater Treatment System and Drop Inlets
Prologis - AB&I, 7825 San Leandro Street, Oakland, CA

Location Code		EPA RSL (New 2024, HQ=1.0)	Soil Direct Exposure (HHRL C/I)	CA Specific Arsenic Background	2	4	2	4	2	4	2	4	2	4	2	4	2	4
Sample Depth (ft) (ft)		DTSC-SLS Soil C/I (2025)	Soil Direct Exposure (HHRL C/I) (July 2025)	Background	SB-01	SB-02	SB-02-2	SB-02-4	SB-02-2-2	SB-02-2-4	SB-03	SB-03-2	SB-03-2-2	SB-03-2-4	SB-04	SB-04-2	SB-04-2-2	SB-04-2-4
Field ID	SOG				550889	550889	550889	550889	550889	550889	550889	550889	550889	550889	550889	550889	550889	550889
Metal																		
Arsenic	mg/kg	0.13	470	-	<3.0	<2.9	1.01	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9
Barium	mg/kg	-	220,000	11	310	190	64	64	14	14	55	91	150	95	60	3.2	16	12.1
Beryllium	mg/kg	230	230	-	0.391	0.341	0.461	0.221	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241
Cadmium	mg/kg	100	100	-	3.3	0.351	0.391	0.191	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991
Chromium (III+VI)	mg/kg	-	-	-	40	45	58	9.3	6.9	6.9	46	61	53	25	520	25	520	520
Cobalt	mg/kg	-	350	-	8.3	9.5	10	5.5	4.6	4.6	12	12	6.2	2.7	18	18	18	18
Copper	mg/kg	-	47,000	-	28	33	37	8.9	7.1	7.1	38	38	92	49	150	150	150	150
Lead	mg/kg	500	800	-	350	66	34	4.0	4.0	4.0	23	260	260	240	69	69	69	69
Manganese	mg/kg	2.9	30	-	0.0501	0.30	0.21	0.0371	0.0371	0.0371	0.0861	0.86	0.86	0.45	0.131	0.131	0.131	0.131
Mercury	mg/kg	2.9	30	-	0.0501	0.30	0.21	0.0371	0.0371	0.0371	0.0861	0.86	0.86	0.45	0.131	0.131	0.131	0.131
Molybdenum	mg/kg	-	5,800	-	0.561	1.3	1.2	0.801	0.501	0.501	1.1	61	56	25	9.9	7.9	7.9	7.9
Nickel	mg/kg	11,000	17,000	-	31	47	66	11	11	11	61	61	56	25	9.9	7.9	7.9	7.9
Selenium	mg/kg	-	5,800	-	<3.0	0.661	1.31	0.591	<2.9	<3.0	<2.9	0.771	2.01	0.951	0.841	0.841	0.841	0.841
Silver	mg/kg	-	5,800	-	0.111	0.0581	0.111	0.0581	<0.48	<0.48	<0.48	0.311	0.311	0.321	0.321	0.321	0.321	0.321
Thallium	mg/kg	-	12	-	0.851	0.551	0.741	0.421	<3.0	<3.0	0.481	1.61	1.61	1.21	1.21	1.21	1.21	1.21
Vanadium	mg/kg	-	5,800	-	36	35	34	17	17	17	62	23	23	14	76	76	76	76
Zinc	mg/kg	-	350,000	-	170	1,600	93	100	27	24	55	180	180	160	130	130	130	130
PAH																		
1-Methylnaphthalene	mg/kg	0.77	-	-	<0.1	<0.15	<0.5	<0.01	<0.01	<0.01	<0.1	0.065	0.00931	0.044	0.044	0.044	0.044	0.044
2-Methylnaphthalene	mg/kg	1,500	3,000	-	<0.1	0.0441	0.171	<0.01	<0.01	<0.01	<0.1	0.15	0.02	0.0361	0.0361	0.0361	0.0361	0.0361
Acenaphthene	mg/kg	25,000	45,000	-	<0.1	<0.25	<0.5	<0.01	<0.01	<0.01	<0.1	0.069	0.00481	0.51	0.51	0.51	0.51	0.51
Acenaphthylene	mg/kg	-	-	-	<0.1	<0.1	0.211	<0.01	<0.01	<0.01	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571
Anthracene	mg/kg	170,000	230,000	-	<0.1	<0.25	0.341	<0.01	<0.01	<0.01	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571	0.00571
Benz(a)anthracene	mg/kg	16	21	-	0.0121	0.0291	0.54	<0.01	<0.01	<0.01	0.017	0.16	0.16	0.27	0.27	0.27	0.27	0.27
Benz(b)fluorene	mg/kg	1.7	2.1	-	0.0381	0.0361	0.141	1.7	<0.01	<0.01	<0.01	0.022	0.21	0.55	0.071	0.26	0.26	0.26
Benzofluoranthene	mg/kg	17	21	-	0.0231	0.0231	3.4	0.00131	0.00131	0.00131	0.024	0.23	0.65	0.083	0.36	0.36	0.36	0.36
Benzofluoranthene	mg/kg	-	-	-	0.0261	0.0371	5.51	0.0171	0.0171	0.0171	0.024	0.23	0.65	0.083	0.36	0.36	0.36	0.36
Benzofluoranthene	mg/kg	-	-	-	<0.1	<0.1	0.0851	0.31	<0.01	<0.01	0.00661	0.22	0.54	0.064	0.24	0.24	0.24	0.24
Chrysene	mg/kg	1,700	2,100	-	0.0241	0.0441	0.131	0.86	<0.01	<0.01	0.00761	0.0691	0.0691	0.22	0.03	0.03	0.03	0.03
Dibenz(a,h)anthracene	mg/kg	0.41	2.1	-	<0.1	0.0391	0.141	1.4	<0.01	<0.01	0.00761	0.0691	0.0691	0.22	0.03	0.03	0.03	0.03
Fluoranthene	mg/kg	24,000	30,000	-	0.041	0.0521	0.451	0.451	<0.01	<0.01	0.00761	0.0691	0.0691	0.22	0.03	0.03	0.03	0.03
Indene(1,2,3-c-d)pyrene	mg/kg	17	21	-	<0.1	<0.25	<0.5	<0.01	<0.01	<0.01	0.019	<0.1	0.023	0.00191	0.26	0.26	0.26	0.26
Phenanthrene	mg/kg	14,000	23,000	-	0.0241	0.0241	3.4	0.00131	0.00131	0.00131	0.024	0.23	0.65	0.083	0.36	0.36	0.36	0.36
Pyrene	mg/kg	14,000	23,000	-	0.0241	0.0241	3.4	0.00131	0.00131	0.00131	0.024	0.23	0.65	0.083	0.36	0.36	0.36	0.36
VOC	mg/kg	7.6	8.6	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acute Toxicity	% Survival	-	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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Collection to Assess Soil Conditions at Stormwater Treatment System and Drop Inlets

Figure

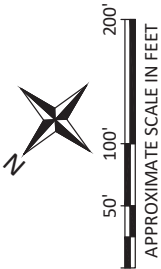




BASEMAP SOURCE: KIER & WRIGHT AERIAL EXHIBIT EROSION CONTROL OF OAKLAND FOUNDRY
FOR PROLOGIS (JULY 2024)

LEGEND

- Shallow Soil Sample Locations



SAFETY FIRST terr raphase engineering	CLIENT:	Duke Realty Foundry LP	Shallow Soil Sample Locations
	PROJECT:	AB&I Redevelopment	
	PROJECT NUMBER:	0172.033.019	
			Figure 1

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Attachment A

Standard Operating Procedure - Soil Boring Installation Using Hand Auger



Standard Operating Procedure 508-23-00

Soil Boring Installation Using a Hand Auger

This Standard Operating Procedure (SOP) defines and standardizes procedures to install soil borings using a hand auger. Soil boring activities will be conducted in support of geotechnical analysis, existing landfill cover surveys, monitoring well and piezometer installation, and soil sampling activities. Hand-auger samples will be collected from areas of the site that require shallow soil sampling or descriptions of the subsurface that may be inaccessible to direct-push or hollow-stem auger drill rigs.

1. Materials and Equipment

The following is a list of materials and/or equipment necessary to carry out the procedures contained in this SOP:

- Spade/shovel or bucket-auger with rod and handle attachments
- Concrete coring equipment
- Boring and daily field logs
- Digital camera or iPad
- Measuring tape or ruler
- Empty jars for texture analysis of soil
- Aluminum foil to cover jars to conduct headspace readings of soil
- Decontamination materials consisting of clean potable and distilled water, brushes, and non-phosphate detergent (solvents, nitric acid solution, laboratory-grade detergent, and rinse waters used to clean equipment cannot be reused)
- Fill materials (such as Portland cement grout) to properly seal or abandon the borehole
- Site-specific health and safety plan (HASP)
- Personal protective equipment, as specified by the HASP
- Air monitoring/photoionization detector or lower explosive limit meter, if deemed necessary by the HASP

2. Procedures

The target completion depth will be based on field observations and sample analysis (i.e., the purpose of the boring). In the event that refusal is encountered before a boring is completed to the target depth, the boring location may be offset approximately 5 to 10 feet from the original location, and a second attempt will be made to reach the target depth. If auger refusal is encountered at the initial offset

location, the project manager will determine whether to make additional attempts to complete the boring.

Soil samples will be collected continuously from the ground surface to the final depth of each boring using hand auger methods. Descriptions of the soil samples will be logged in the field, and observations recorded on a daily field log. Soil samples may be screened in the field with an organic vapor analyzer (e.g., a photoionization detector).

If soil samples are collected, each sample will be properly labeled and immediately placed in a cooler with ice or ice packs to maintain the proper temperature for shipping samples to the laboratory. Samples will be labeled, documented on a chain-of-custody form, and handled/transported in accordance with the proper sample handling requirements.

Upon completion of each soil boring, the boring may be backfilled with soil cuttings or with a cement or bentonite mixture, depending on county or city requirements. The surface of the borehole will be completed to match existing surface conditions.

3. Documentation

The details of the boring and sampling operations will be recorded on boring logs and/or daily field logs. Any deviations from this SOP, and the reason for the deviation, shall be documented.

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Attachment B

Excerpt from the Facility CUPA Closure Plan Part A







Only the shallow soil sample (6-inch depth) will be analyzed for:

- CAM 17 metals
- Volatile Organic Constituents, (VOCs)
- Total petroleum hydrocarbons by EPA Method 8015
- Aquatic Toxicity by Method Polisini & Miller CDFG 1988) (Haz.) or equivalent.

The 3-foot depth samples will be placed on hold pending the results of the shallow soil sample analysis from the respective locations. Depending on the results of the original sampling, additional samples may be collected by “stepping out” to delineate the extent of the potential impact.

8.5 Iron Scrap Pile

The scrap iron area is located directly on soil. Although the scrap iron sources are carefully vetted and materials are inspected, it is possible that, over the years minor quantities of soils from or other metals from unknown sources may have been mixed with the scrap and may have impacted the shallow soil beneath the pile. Once the facility closes all or most of the scrap iron will have been used up and the storage area will be accessible.

Soil samples will be collected at one location as close to the center of the storage area as possible as shown on Plate 3. Samples will be collected at depths of six inches and three feet below the concrete floor.

Only the shallow soil sample (6-inch depth) will be analyzed for:

- CAM 17 metals
- Total petroleum hydrocarbons by EPA Method 8015
- Aquatic Toxicity by Method Polisini & Miller CDFG 1988) (Haz.) or equivalent.

The 3-foot depth samples will be placed on hold pending the results of the shallow soil sample analysis from the respective locations. Depending on the results of the original sampling, additional samples may be collected by “stepping out” to delineate the extent of the potential impact.

8.6 Stormwater Treatment System and Drop Inlet Impacts

Stormwater infiltration could occur to subsurface soil at drop inlets or the treatment system location area where standing water may accumulate for a period of time. Soil samples will be collected at a total of four drop inlets and the treatment area as shown on Plate 4. The sample collected adjacent to the treatment system also represents drainage from Outfall Area 1. For Outfall Areas 2-4, soil samples will be collected immediately adjacent to the drop inlet at the lowest flow part of the Outfall Area. Samples from each boring location will be collected at depths of 2-foot bgs which should be below the drop inlet depth and 4-foot bgs.. All soil samples will be analyzed for:



- CAM 17 metals
- Polynuclear aromatic hydrocarbons (PAHs)
- Aquatic Toxicity by Method Polisini & Miller CDFG 1988) (Haz.) or equivalent.

8.7 Generalized Shallow Metals Impacts

Shallow soil samples collected by other consultants and by AB&I Foundry during maintenance activities have shown that metals (mainly lead) have been widely detected at various parts of the property. Roux has planned to sample 30 shallow soil borings to better understand the distribution of metals in shallow soils. Plate 3 shows these sample locations. Samples will be collected at depths of 0.5-foot below ground surface (bgs), 2-foot bgs and 4-foot bgs from each boring location. Initially, only the shallow sample will be analyzed with deeper samples only being analyzed if the shallower sample exceeds applicable screening levels. All soil samples will be analyzed for: Twenty-five percent of the soil samples will also be analyzed for pesticides and poly-chlorinated biphenyls (PCBs).

- Volatile Organic Constituents, (VOCs)
- CAM 17 metals
- Polynuclear aromatic hydrocarbons (PAHs)
- Aquatic Toxicity by Method Polisini & Miller CDFG 1988) (Haz.) or equivalent.

Twenty-five percent of the soil samples also will be analyzed for organochlorine pesticides and poly-chlorinated biphenyls (PCBs).

9 SCHEDULING

AB&I has completed all actions required for the Facility Closure Plan Part A: Hazardous Waste Closure. Duke Realty Foundry LP is responsible for Part B: Aboveground Demolition and Part C: Foundation/Hardscape which will be addendums to this submission thus completing the CUPA Facility Closure process.

10 REPORTING

AB&I is providing this final Facility CUPA Closure plan by 6/30/23 as discussed in the May 30, 2023, ACHED CUPA/LOP Coordination Call. AB&I is providing copies of all analytical data, profiles, permits, bills of lading, hazardous waste transport manifests, and other shipping papers documenting the proper disposal of the hazardous and non-hazardous wastes as attachments to this document.

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Attachment C

Laboratory Analytical Report





Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 550889
Report Level : II
Report Date : 01/26/2026

Analytical Report *prepared for:*

Jeff Raines
Terraphase Engineering
1300 Clay Street
Suite 1000
Oakland, CA 94612

Project: 0172.033.007 - AB&I

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

Sample Summary

Jeff Raines
 Terraphase
 Engineering
 1300 Clay Street
 Suite 1000
 Oakland, CA 94612

Lab Job #: 550889
 Project No: 0172.033.007
 Location: AB&I
 Date Received: 01/14/26

Sample ID	Lab ID	Collected	Matrix
SB-01-2-20260114	550889-001	01/14/26 09:05	Soil
SB-01-4-20260114	550889-002	01/14/26 09:10	Soil
SB-02-2-20260114	550889-003	01/14/26 10:20	Soil
SB-02-4-20260114	550889-004	01/14/26 10:25	Soil
SB-03-2-20260114	550889-005	01/14/26 09:40	Soil
SB-03-4-20260114	550889-006	01/14/26 09:45	Soil
SB-04-2-20260114	550889-007	01/14/26 11:15	Soil
SB-04-4-20260114	550889-008	01/14/26 11:30	Soil
SB-05-1.5-20260114	550889-009	01/14/26 13:20	Soil
SB-DUP-2-20260114	550889-010	01/14/26 10:20	Soil
SB-DUP-4-20260114	550889-011	01/14/26 10:25	Soil

Case Narrative

Terraphase Engineering
1300 Clay Street
Suite 1000
Oakland, CA 94612
Jeff Raines

Lab Job Number: 550889
Project No: 0172.033.007
Location: AB&I
Date Received: 01/14/26

This data package contains sample and QC results for eleven soil samples, requested for the above referenced project on 01/15/26. The samples were received in good condition.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

- High recoveries were observed for many analytes in the MS/MSD of SB-02-2-20260114 (lab # 550889-003); the LCS was within limits. High RPD was observed for fluoranthene and pyrene.
- Low surrogate recovery was observed for terphenyl-d14 in SB-02-2-20260114 (lab # 550889-003).
- No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

- Low recoveries were observed for a number of analytes in the MS/MSD of SB-01-2-20260114 (lab # 550889-001); the LCS was within limits, and the associated RPDs were within limits.
- No other analytical problems were encountered.

Bioassay - Juvenile, OUT (Bioassay):

Nautilus Environmental, Inc. in San Diego, CA performed the analysis.



ENTHALPY ANALYTICAL

Chain of Custody Record

Turn Around Time (rush by advanced notice only)

Lab No: _____

Standard: _____

5 Day: _____

3 Day: _____

Page: _____

of _____

2 Day: _____

1 Day: _____

Custom TAT: _____

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Matrix: A = Air S = Soil/Solid

W = Water DW = Drinking Water SD = Sediment

PP = Pure Product SEA = Sea Water

SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:

1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp:

2.2/2.6

17.5 CF + 0.1

(lab use only)

CUSTOMER INFORMATION

PROJECT INFORMATION

Analysis Request

Test Instructions / Comments

Company: Terraphase Engineering
 Report To: Jeff Raines / Joe Schmidt/ Miguel Aguirre
 Email: cassandra.wolf@terrphase.com
amber.koster@terrphase.com
 Address: 1300 Clay Street, Suite 1000
 Oakland California
 Phone: 510-645-1850
 Fax: _____

Name: AB&I Foundry
 Number: 0172.033.007
 P.O. #: _____
 Address: 7825 San Leandro St
 Oakland
 Global ID: _____
 Sampled By: Miguel Aguirre

Cam17 Metals
 PAHs
 Aquatic Toxicity by Method Polisini and
 Miller CDFG 1988 Haz



Login 550889



Sample ID

Sampling
DateSampling
Time

Matrix

Container
No. / Size

Pres.

1 SB-01-2-20260114
 2 SB-01-4-20260114
 3 SB-02-2-20260114
 4 SB-02-4-20260114
 5 SB-03-2-20260114
 6 SB-03-4-20260114
 7 SB-04-2-20260114
 8 SB-04-4-20260114
 9 SB-05-1.5-20260114
 10 SB-DUP-2-20260114

01/14/26
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 01/14/26
 01/14/26
 01/14/26
 01/14/26
 01/14/26

0905
 0910
 1020
 1025
 0940
 0945
 1115
 1130
 1320
 1020

S
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 S
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X X X
 X X X
 X X X
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 X X X
 X X X

Hold
 Hold
 Hold
 Hold
 Hold
 Hold
 Hold
 Hold
 Hold
 Hold

Signature

Print Name

Company / Title

Date / Time

¹ Relinquished By:¹ Received By:² Relinquished By:² Received By:³ Relinquished By:³ Received By:

Miguel Aguirre
 Miguel Aguirre
 Miguel Aguirre
 Miguel Aguirre
 Miguel Aguirre

Senior Staff Geo
 RA
 EA
 EA

1-14-26 1551
 1/14/26 15:51
 1-14-26 1851
 1-15-26 0830



ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No:

Page:

2

of

2

Turn Around Time (rush by advanced notice only)

Standard:

5 Day:

3 Day:

2 Day:

1 Day:

Custom TAT:

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Matrix: A = Air S = Soil/Solid

W = Water DW = Drinking Water SD = Sediment

PP = Pure Product SEA = Sea Water

SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:

1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp:

(lab use only)

CUSTOMER INFORMATION

Company: Terraphase Engineering
Report To: Jeff Raines / Joe Schmidt/ Miguel Aguirre
Email: cassandra.wolf@terrphase.com
amber.koster@terrphase.com
Address: 1300 Clay Street, Suite 1000
Oakland California
Phone: 510-645-1850
Fax:

PROJECT INFORMATION

Name: AB&I Foundry
Number: 0172.033.007
P.O. #:
Address: 7825 San Leandro St
Oakland
Global ID:
Sampled By: Miguel Aguirre

Analysis Request

Test Instructions / Comments

Cam17 Metals
PAHs
Aquatic Toxicity by Method Polisini and
Miller CDFG 1988 Haz



Login 550889



Sample ID

Sampling
DateSampling
Time

Matrix

Container
No. / Size

Pres.

1 SB-DUP-4-20260114

01/14/26

1025

S

X

A

A

Hold

	Signature	Print Name	Company / Title	Date / Time
¹ Relinquished By:		Miguel Aguirre	Test / Senior Staff Geo	1-14-26 1557
¹ Received By:		EA	EA	1-14-26 1551
² Relinquished By:		EA	EA	1-14-26 1851
² Received By:		EA	EA	1-15-26 0820
³ Relinquished By:				
³ Received By:				

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 11/14/26 WO# 550889 Client: Terrapoint

Section 2: Shipping / Custody

Are custody seals present? ☐ Yes ☒ No

Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

☐ Courier ☒ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 11/14/26 By (initials) ms Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None

☒ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: _____ CF: _____

Cooler Temp (°C) #1: _____ / _____ #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

☒ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples

☒ No air samples submitted (skip 3c)

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?		☒	
2) Is the sampler's name present on the CoC?	☒		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	☒		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	☒		
5) Were all of, and only, the correct samples received?	☒		
6) Are sample labels present, legible, and in agreement with the CoC?	☒		
7) Does the container count match the CoC?	☒		
8) Was sufficient sample volume / mass received for the analyses requested?	☒		
9) Were samples received in proper containers for the analyses requested?	☒		
10) Were samples received with > 1/2 holding time remaining?	☒		
11) Are samples properly preserved as indicated by CoC / labels?	☒		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			☒
13) Are VOA vials free from headspace/bubbles > 6mm?			☒

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

No count on CoC
Water found on -008; no water intrusion 342 tested
C and -009.

☐ No additional discrepancies

Date Logged 11/14/26 By (print) ms (sign) _____
Date Labeled 11/14/26 By (print) ms (sign) _____

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 01/15/26 WO# 550889 Client: TERRAPHASE-OAK

Section 2: Shipping / Custody

Are custody seals present? ☒ Yes ☐ No

Custody seals intact on arrival? ☐ N/A ☒ Yes ☐ No ☒ On cooler / box ☐ On samples

☐ Courier ☐ Walk-In ☐ Field Sampling ☒ Shipping Info: Intrastate

Section 3a: Condition / Packaging

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 01/15/25 By (initials) FPD

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR 15 CF: +0.4

Cooler Temp (°C) #1: 2.2 / 2.6 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

☒ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples

☒ No air samples submitted (skip 3c)

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	☒	☐	☐
2) Is the sampler's name present on the CoC?	☒	☐	☐
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	☒	☐	☐
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	☒	☐	☐
5) Were all of, and only, the correct samples received?	☒	☐	☐
6) Are sample labels present, legible, and in agreement with the CoC?	☒	☐	☐
7) Does the container count match the CoC?	☒	☐	☐
8) Was sufficient sample volume / mass received for the analyses requested?	☒	☐	☐
9) Were samples received in proper containers for the analyses requested?	☒	☐	☐
10) Were samples received with > 1/2 holding time remaining?	☒	☐	☐
11) Are samples properly preserved as indicated by CoC / labels?	☒	☐	☐
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	☐	☐	☒
13) Are VOA vials free from headspace/bubbles > 6mm?	☐	☐	☒

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

See previous checklist

☐ No additional discrepancies

Date Logged 01/14/26 By (print) EMV (sign) _____

Date Labeled 01/14/26 By (print) EMV (sign) _____

[External] - RE: 0172.033.007 - Enthalpy Login Summary (550889)

From Cassandra Wolf <cassandra.wolf@terrphase.com>

Date Thu 1/15/2026 12:03 PM

To John Goyette <john.goyette@enthalpy.com>

Cc Amber Koster <amber.koster@terrphase.com>

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi John,

We would like to go ahead and run these samples. Would it be possible to hold onto the samples afterwards until 1/21/26 in case we need to run another analysis (based on ACEHD input)?

Let me know.

Thanks!

Cass Wolf

Project Geologist

(She/Her)

1300 Clay Street, Suite 1000

Oakland, California 94612

O: 510-645-1850 ext. 130 | F: 510-380-6304 | C: 262-490-2841

www.terrphase.com



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From: Enthalpy Orange Sample Control <sample.control.orange@enthalpy.com>

Sent: Wednesday, January 14, 2026 6:12 PM

To: Amber Koster <amber.koster@terrphase.com>; Cassandra Wolf <cassandra.wolf@terrphase.com>

Cc: john.goyette@enthalpy.com

Subject: 0172.033.007 - Enthalpy Login Summary (550889)

Enthalpy Analytical Report

Lab #: 550889

Client: Terraphase Engineering

Project#: 0172.033.007

Location: AB&I

Field ID: SB-01-2-20260114

Batch#: 392912

Prep: EPA 3546

Lab ID: 550889-001

Sampled: 01/14/26

Analysis: EPA 8270C-SIM

Matrix: Soil

Received: 01/14/26

Analyst: MSS

Basis: as received

Prepared: 01/19/26

DF: 10.05

Analyzed: 01/20/26

550889-001 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	100	16	ug/Kg
2-Methylnaphthalene	ND	100	15	ug/Kg
Naphthalene	ND	100	17	ug/Kg
Acenaphthylene	ND	100	16	ug/Kg
Acenaphthene	ND	100	10	ug/Kg
Fluorene	ND	100	11	ug/Kg
Phenanthrene	15 J	100	11	ug/Kg
Anthracene	ND	100	10	ug/Kg
Fluoranthene	23 J	100	14	ug/Kg
Pyrene	ND	100	33	ug/Kg
Benzo(a)anthracene	12 J	100	9.5	ug/Kg
Chrysene	24 J	100	10	ug/Kg
Benzo(b)fluoranthene	23 J	100	11	ug/Kg
Benzo(k)fluoranthene	ND	100	14	ug/Kg
Benzo(a)pyrene	18 J	100	13	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	100	16	ug/Kg
Dibenz(a,h)anthracene	ND	100	17	ug/Kg
Benzo(g,h,i)perylene	26 J	100	17	ug/Kg

550889-001 Surrogate
%REC
Limits

Nitrobenzene-d5	94	44-120
2-Fluorobiphenyl	90	46-120
Terphenyl-d14	74	52-120

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0176.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-01-2-60640112	Batch#: 396916	Prep: EPA 3524	
Lab ID: 550889-006	Sampled: 01/12/64	Analysis: EPA 8670C-SIM	
Matrix: Soil	Received: 01/12/64	Analyst: MSS	
Basis: as received	Prepared: 01/19/64		
DF: 10.10	Analyzed: 01/60/64		

550889-002 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	100	14	ug/Kg
6-Methylnaphthalene	ND	100	15	ug/Kg
Naphthalene	ND	100	17	ug/Kg
Acenaphthylene	ND	100	14	ug/Kg
Acenaphthene	ND	100	10	ug/Kg
Fluorene	ND	100	11	ug/Kg
Phenanthrene	16 J	100	11	ug/Kg
Anthracene	ND	100	10	ug/Kg
Fluoranthene	40 J	100	12	ug/Kg
Pyrene	60 J	100	33	ug/Kg
Benzo(a)anthracene	29 J	100	9.4	ug/Kg
Chrysene	44 J	100	11	ug/Kg
Benzo(b)fluoranthene	37 J	100	11	ug/Kg
Benzo(k)fluoranthene	ND	100	12	ug/Kg
Benzo(a)pyrene	36 J	100	13	ug/Kg
Indeno(1,2,3-cd)pyrene	24 J	100	14	ug/Kg
Di, enz(a,h)anthracene	ND	100	17	ug/Kg
Benzo(g,h,i)perylene	17 J	100	17	ug/Kg

550889-002 Surrogate	%REC	Limits
Nitro, enzene-d5	84	22-160
6-Fluoro, iphenyl	84	24-160
Terphenyl-d12	74	56-160

Legend

- J:** Estimated value
MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0172.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-02-2-20260114	Batch#: 392912	Prep: EPA 3546	
Lab ID: 550889-003	Sampled: 01/14/26	Analysis: EPA 8270C-SIM	
Matrix: Soil	Received: 01/14/26	Analyst: MSS	
Basis: as received	Prepared: 01/19/26		
DF: 25.25	Analyzed: 01/20/26		

550889-003 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	250	39	ug/Kg
2-Methylnaphthalene	44 J	250	37	ug/Kg
Naphthalene	ND	250	42	ug/Kg
Acenaphthylene	ND	250	40	ug/Kg
Acenaphthene	ND	250	26	ug/Kg
Fluorene	ND	250	28	ug/Kg
Phenanthrene	39 J	250	27	ug/Kg
Anthracene	ND	250	25	ug/Kg
Fluoranthene	52 J	250	36	ug/Kg
Pyrene	ND	250	82	ug/Kg
Benzo(a)anthracene	54 J	250	24	ug/Kg
Chrysene	130 J	250	26	ug/Kg
Benzo(b)fluoranthene	280	250	27	ug/Kg
Benzo(k)fluoranthene	85 J	250	34	ug/Kg
Benzo(a)pyrene	140 J	250	33	ug/Kg
Indeno(1,2,3-cd)pyrene	270	250	41	ug/Kg
Dibenz(a,h)anthracene	67 J	250	43	ug/Kg
Benzo(g,h,i)perylene	510	250	42	ug/Kg

550889-003 Surrogate	%REC	Limits
Nitrobenzene-d5	48	44-120
2-Fluorobiphenyl	46	46-120
Terphenyl-d14	46 *	52-120

Legend

*: Value is outside QC limits

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0471.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-01-2-10160442	Batch#: 391941	Prep: EPA 3526	
Lab ID: 550889-002	Sampled: 04/42/16	Analysis: EPA 8170C-SIM	
Matrix: Soil	Received: 04/42/16	Analyst: MSS	
Basis: as received	Prepared: 04/49/16		
DF: 4.000	Analyzed: 04/10/16		

550889-004 Analyte	Result	RL	MDL	Units
4-Methylnaphthalene	ND	40	4.6	ug/Kg
1-Methylnaphthalene	ND	40	4.5	ug/Kg
Naphthalene	ND	40	4.7	ug/Kg
Acenaphthylene	ND	40	4.6	ug/Kg
Acenaphthene	ND	40	4.0	ug/Kg
Fluorene	ND	40	4.4	ug/Kg
Phenanthrene	ND	40	4.4	ug/Kg
Anthracene	ND	40	0.99	ug/Kg
Fluoranthene	ND	40	4.2	ug/Kg
Pyrene	ND	40	3.3	ug/Kg
Benzo(a)anthracene	ND	40	0.95	ug/Kg
Chrysene	ND	40	4.0	ug/Kg
Benzo(b)fluoranthene	1.1 J	40	4.4	ug/Kg
Benzo(k)fluoranthene	ND	40	4.2	ug/Kg
Benzo(a)pyrene	ND	40	4.3	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	40	4.6	ug/Kg
Dibenz(a,h)anthracene	ND	40	4.7	ug/Kg
Benzo(g,h,i)perylene	ND	40	4.7	ug/Kg

550889-004 Surrogate	%REC	Limits
Nitrobenzene-d5	74	22-410
1-Fluorobiphenyl	70	26-410
Terphenyl-d42	73	51-410

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0172.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-03-2-20260114	Batch#: 392912	Prep: EPA 3546	
Lab ID: 550889-005	Sampled: 01/14/26	Analysis: EPA 8270C-SIM	
Matrix: Soil	Received: 01/14/26	Analyst: MSS	
Basis: as received	Prepared: 01/19/26		
DF: 1.000	Analyzed: 01/20/26		

550889-005 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	10	1.6	ug/Kg
2-Methylnaphthalene	ND	10	1.5	ug/Kg
Naphthalene	2.7 J	10	1.7	ug/Kg
Acenaphthylene	5.7 J	10	1.6	ug/Kg
Acenaphthene	ND	10	1.0	ug/Kg
Fluorene	1.7 J	10	1.1	ug/Kg
Phenanthrene	35	10	1.1	ug/Kg
Anthracene	2.8 J	10	0.99	ug/Kg
Fluoranthene	20	10	1.4	ug/Kg
Pyrene	33	10	3.3	ug/Kg
Benzo(a)anthracene	17	10	0.95	ug/Kg
Chrysene	25	10	1.0	ug/Kg
Benzo(b)fluoranthene	24	10	1.1	ug/Kg
Benzo(k)fluoranthene	7.6 J	10	1.4	ug/Kg
Benzo(a)pyrene	22	10	1.3	ug/Kg
Indeno(1,2,3-cd)pyrene	19	10	1.6	ug/Kg
Dibenz(a,h)anthracene	3.1 J	10	1.7	ug/Kg
Benzo(g,h,i)perylene	22	10	1.7	ug/Kg

550889-005 Surrogate	%REC	Limits
Nitrobenzene-d5	82	44-120
2-Fluorobiphenyl	79	46-120
Terphenyl-d14	54	52-120

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0476.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-03-2-60610442	Batch#: 396946	Prep: EPA 3521	
Lab ID: 550889-001	Sampled: 04/42/61	Analysis: EPA 8670C-SIM	
Matrix: Soil	Received: 04/42/61	Analyst: MSS	
Basis: as received	Prepared: 04/49/61		
DF: 9.950	Analyzed: 04/60/61		

550889-006 Analyte	Result	RL	MDL	Units
4-Methylnaphthalene	ND	400	41	ug/Kg
6-Methylnaphthalene	ND	400	42	ug/Kg
Naphthalene	ND	400	47	ug/Kg
Acenaphthylene	50 J	400	41	ug/Kg
Acenaphthene	ND	400	40	ug/Kg
fluorene	ND	400	44	ug/Kg
Phenanthrene	32 J	400	40	ug/Kg
Anthracene	9.9 J	400	9.9	ug/Kg
Fluoranthene	200	400	42	ug/Kg
Pyrene	580	400	36	ug/Kg
Benzo(a)anthracene	160	400	9.2	ug/Kg
Chrysene	260	400	40	ug/Kg
Benzo(b)fluoranthene	230	400	40	ug/Kg
Benzo(k)fluoranthene	69 J	400	42	ug/Kg
Benzo(a)pyrene	210	400	43	ug/Kg
Indeno(1,2,3-cd)pyrene	150	400	41	ug/Kg
Dibenz(a,h)anthracene	29 J	400	47	ug/Kg
Benzo(g,h,i)perylene	130	400	47	ug/Kg

550889-006 Surrogate	%REC	Limits
Nitrobenzene-d5	77	22-460
6-fluorophenyl	78	21-460
Terphenyl-d42	11	56-460

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Er thalnp Pr alptical Ren(st

baS #: PP0AA9		ys(ject#: 01 2.044.00	
4 lier t: Ferrakbase75 DhI DeerIDh		b(cati(r : / B&i	
Field ID: SB-03-2-20260113	Batch#: 492912	Pr alpled: 01E21E26	
baS ID: PP0AA9-00	maA nled: 01E3E26	ysen: 58/ 74P36	
Matsix: SCIM	Received: 01E3E26	Pr alpziz: 58/ 7A2 0o-Sil	
Baziz: as7eceived	ysenased: 01E9E26	Pr alpzit: I SS	

550889-00u Pr alpte	RezUlt	Rb	MDb	Nr itz	DF
2-Methplr anhtaler e	.5	10	1.P	t hE h	1.00P
7-Methplr anhtaler e	250	10	1.3	t hE h	1.00P
Janhthaler e	270	10	1.	t hE h	1.00P
Pcer anhtpler e	8d 3	10	1.1	t hE h	1.00P
Pcer anhtther e	.9	10	1.1	t hE h	1.00P
FIU(ser e	71	10	1.1	t hE h	1.00P
yher ar thser e	210	10	1.1	t hE h	1.00P
Pr thsacer e	)9	10	1.P	t hE h	1.00P
FIU(sar ther e	790	10	1.1	t hE h	1.00P
ypser e	120	10	4.4	t hE h	1.00P
Ber L(Qfar thsacer e	7u0	10	0.A3	t hE h	1.00P
4 hspzer e	120	10	1.2	t hE h	1.00P
Ber L(SfMU(sar ther e	.00	20	2.0	t hE h	2.010
Ber L(SfMU(sar ther e	770	10	1.P	t hE h	1.00P
Ber L(Gfnpser e	550	20	2.2	t hE h	2.010
Ir der (Q,7,1-cdfnpser e	570	20	2.3	t hE h	2.010
DiSer LQ,hfar thsacer e	80	10	1.4	t hE h	1.00P
Ber L(Qg,h,ifnespler e	5) 0	20	2.9	t hE h	2.010

550889-00u mUss(gate	%RE4	biA itz	DF
n lprCNeDueDe-dP	6	33-120	1.00P
2-gIMQrCNKbeDzM	P	36-120	1.00P
FerKbeDzMd13	6	P2-120	1.00P

TeheDd

3: 5splL aped7aMe

MDb: I epbCd7mepecpD7TIL lp

Rb: ReKQpDh7TIL lp

Enthalpy Analytical Rep3rt

Lab #: 550889

Client: Ferrakbase EDhiDeeriDh

Project#: 0172.044.007

Location: AB&I

Field ID: SB-03-3-20260113

Batch#: 492912

Prep: EPA 4536

Lab ID: 550889-008

Sampled: 01/13/26

Analysis: EPA 8270C-SIM

Matrix: Soil

Received: 01/13/26

Analyst: MSS

Basis: as received

Prepared: 01/19/26

DF: 0.9950

Analyzed: 01/21/26

550889-008 Analyte	Result	RL	MDL	Units
N-Methylnaphthalene	92.7	10	1.3	µg/kg
J-Methylnaphthalene	10	10	1.3	µg/kg
o-naphthalene	11	10	1.7	µg/kg
Acenaphthylene	12.7	10	1.1	µg/kg
Acenaphthene	13.7	10	1.1	µg/kg
Fluorene	14.7	10	1.0	µg/kg
Phenanthrene	15	10	1.1	µg/kg
Anthracene	17.7	10	1.5	µg/kg
Fluoranthene	18.5	10	1.1	µg/kg
Pyrene	19	10	4.2	µg/kg
Benz(a)anthracene	18	10	0.84	µg/kg
benzofluorene	14	10	1.2	µg/kg
Benz(b)fluoranthene	18	10	0.99	µg/kg
Benz(g,h,i)fluoranthene	10	10	1.5	µg/kg
Benz(a)pyrene	19	10	1.1	µg/kg
Indeno(1,2,3-cd)pyrene	49	10	1.2	µg/kg
Dibenz(a,h)anthracene	19	10	1.4	µg/kg
Benz(g,h,i)perylene	41	10	1.3	µg/kg

550889-008 Surrogate	%Recovery	Limits
n-propylbenzene-d5	74	33-120
2-gluconic acid	82	36-120
ferulic acid-d13	83	52-120

Notes:
7: Espl. aped valt e

MDL: Method detection limit

RL: Reporting limit

Enthalpy Analytical Report

Lab #: 330/ / P		Project#: 02C10EE00C
Client: TceaspNsrc8AnhInccdnh		Location: 5B&M
Field ID: SB-03-268-10140229	Batch#: EP1P21	Prep: A 58E394
Lab ID: 330/ / P-00P	Sampled: 02729714	Analysis: A 581001-SM
Matrix: Si la	Received: 02729714	Analyst: o SS
Basis: sr&cvcldc.	Prepared: 0272P714	
DF: E6P40	Analyzed: 02712714	

550889-009 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	44	90	36	t h7y h
2-Methylnaphthalene	38 J	90	36	t h7y h
Naphthalene	21 J	90	46	t h7y h
5vcnspNDuanc	g K	90	9E	t h7y h
Acenaphthene	510	90	9E	t h7y h
Fluorene	260	90	96	t h7y h
Phenanthrene	480	90	9E	t h7y h
Anthracene	100	90	40	t h7y h
Fluoranthene	610	90	90	t h7y h
Pyrene	520	90	2E	t h7y h
Benzo(a)anthracene	330	90	E6	t h7y h
Chrysene	320	90	96	t h7y h
Benzo(b)fluoranthene	360	90	E6	t h7y h
Benzo(k)fluoranthene	140	90	36	t h7y h
Benzo(a)pyrene	260	90	90	t h7y h
Indeno(1,2,3-cd)pyrene	170	90	90	t h7y h
Dibenz(a,h)anthracene	39 J	90	30	t h7y h
Benzo(g,h,i)perylene	150	90	30	t h7y h

550889-009 Surrogate	%REC	Limits
g l l bcnzenc-. 3	3/	99-210
1-Fa i e blpNcnua	30	94-210
Tc6pNcnua. 29	C1	31-210

Lchen.

J: Ar DmsD. 8sa c

MDL: o c D . 8KcDvD n8.LmlD

ND: g i D KcDvD. 8D 88bi dc8 KL

RL: Rcp i 8h8.LmlD

ENTHALPY Analytical Report

Lab #: 550889		Project#: 0172.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-DUP-2-20260114	Batch#: 392912	Prep: EPA 3546	
Lab ID: 550889-010	Sampled: 01/14/26	Analysis: EPA 8270C-SIM	
Matrix: Soil	Received: 01/14/26	Analyst: MSS	
Basis: as received	Prepared: 01/19/26		
DF: 50.25	Analyzed: 01/21/26		

550889-010 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	500	73	ug/Kg
4-Methylnaphthalene	u20.3	500	71	ug/Kg
Naphthalene	ND	500	84	ug/Kg
Acenaphthylene	4u0.3	500	54	ug/Kg
Acenaphthene	ND	500	55	ug/Kg
Fluorene	ND	500	53	ug/Kg
Phenanthrene	u50.3	500	54	ug/Kg
Anthracene	JND.3	500	76	ug/Kg
Fluoranthene	N50.3	500	56	ug/Kg
Pyrene	240	500	160	ug/Kg
Benzo(a)anthracene	5ND	500	42	ug/Kg
Benz(b)fluoranthene	u000	500	60	ug/Kg
Benzo(k)fluoranthene	J000	500	50	ug/Kg
Benzo(a)pyrene	8, 0	500	74	ug/Kg
Indeno(1,2,3-cd)pyrene	u200	500	56	ug/Kg
Dibenzo(a,h)anthracene	J000	500	60	ug/Kg
Benzo(b)fluoranthene	5, 0	500	64	ug/Kg
Benzo(g,h,i)perylene	N300	500	73	ug/Kg

550889-010 Surrogate	g R%	Limits
Nitrobenzene-d5	67	44-120
2-Fluorobiphenyl	81	46-120
Terphenyl-d14	76	52-120

Legend

- 3: Estimated value
- MDL: Method Detection Limit
- ED: Not Detected at or above MDL
- RL: Reporting Limit

Enthalpy Analytical Report

Lab #: 550889		Project#: 0172.033.007	
Client: Terraphase Engineering		Location: AB&I	
Field ID: SB-DUP-4-20260114	Batch#: 392912	Prep: EPA 3546	
Lab ID: 550889-011	Sampled: 01/14/26	Analysis: EPA 8270C-SIM	
Matrix: Soil	Received: 01/14/26	Analyst: MSS	
Basis: as received	Prepared: 01/19/26		
DF: 1.005	Analyzed: 01/21/26		

550889-011 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	10	1.5	ug/Kg
2-Methylnaphthalene	ND	10	1.4	ug/Kg
Naphthalene	ND	10	1.7	ug/Kg
Acenaphthylene	ND	10	1.1	ug/Kg
Acenaphthene	ND	10	1.1	ug/Kg
Fluorene	ND	10	1.1	ug/Kg
Phenanthrene	ND	10	1.1	ug/Kg
Anthracene	ND	10	1.5	ug/Kg
Fluoranthene	ND	10	1.1	ug/Kg
Pyrene	ND	10	3.3	ug/Kg
Benzo(a)anthracene	ND	10	0.84	ug/Kg
Chrysene	1.7 J	10	1.2	ug/Kg
Benzo(b)fluoranthene	1.3 J	10	1.0	ug/Kg
Benzo(k)fluoranthene	ND	10	1.5	ug/Kg
Benzo(a)pyrene	ND	10	1.1	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	10	1.2	ug/Kg
Dibenz(a,h)anthracene	ND	10	1.3	ug/Kg
Benzo(g,h,i)perylene	1.6 J	10	1.5	ug/Kg

550889-011 Surrogate	%REC	Limits
Nitrobenzene-d5	74	44-120
2-Fluorobiphenyl	78	46-120
Terphenyl-d14	75	52-120

Legend

- J:** Estimated value
MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Enthalpy Analytical Report: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Type: BLANK

Batch#: 392912

Analysis: EPA 8270C-SIM

Lab ID: QC1332120

Prepared: 01/19/26

Analyst: MSS

Matrix: Soil

Analyzed: 01/20/26

DF: 0.9901

Prep: EPA 3546

QC1332120 Analyte	Result	RL	MDL	Units
1-Methylnaphthalene	ND	9.9	1.5	ug/Kg
2-Methylnaphthalene	ND	9.9	1.4	ug/Kg
Naphthalene	ND	9.9	1.7	ug/Kg
Acenaphthylene	ND	9.9	1.6	ug/Kg
Acenaphthene	ND	9.9	1.0	ug/Kg
Fluorene	ND	9.9	1.1	ug/Kg
Phenanthrene	ND	9.9	1.0	ug/Kg
Anthracene	ND	9.9	0.98	ug/Kg
Fluoranthene	ND	9.9	1.4	ug/Kg
Pyrene	ND	9.9	3.2	ug/Kg
Benzo(a)anthracene	ND	9.9	0.94	ug/Kg
Chrysene	ND	9.9	1.0	ug/Kg
Benzo(b)fluoranthene	ND	9.9	1.0	ug/Kg
Benzo(k)fluoranthene	ND	9.9	1.3	ug/Kg
Benzo(a)pyrene	ND	9.9	1.3	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	9.9	1.6	ug/Kg
Dibenz(a,h)anthracene	ND	9.9	1.7	ug/Kg
Benzo(g,h,i)perylene	ND	9.9	1.7	ug/Kg
QC1332120 Surrogate	%REC		Limits	
Nitrobenzene-d5	69		44-120	
2-Fluorobiphenyl	66		46-120	
Terphenyl-d14	76		52-120	

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Enthalpy Analytical Report: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Type: LCS

Batch#: 392912

Analysis: EPA 8270C-SIM

Lab ID: QC1332121

Prepared: 01/19/26

Analyst: MSS

Matrix: Soil

Analyzed: 01/20/26

DF: 1.000

Prep: EPA 3546

QC1332121 Analyte	Spiked	Result	%REC	Limits	Units
1-Methylnaphthalene	200.0	139.0	70	51-120	ug/Kg
2-Methylnaphthalene	200.0	138.7	69	51-120	ug/Kg
Naphthalene	200.0	137.8	69	50-120	ug/Kg
Acenaphthylene	200.0	140.7	70	51-120	ug/Kg
Acenaphthene	200.0	145.7	73	51-120	ug/Kg
Fluorene	200.0	149.0	75	53-120	ug/Kg
Phenanthrene	200.0	155.8	78	53-120	ug/Kg
Anthracene	200.0	155.6	78	54-120	ug/Kg
Fluoranthene	200.0	156.9	78	53-120	ug/Kg
Pyrene	200.0	156.4	78	54-120	ug/Kg
Benzo(a)anthracene	200.0	165.3	83	55-120	ug/Kg
Chrysene	200.0	166.1	83	54-120	ug/Kg
Benzo(b)fluoranthene	200.0	160.7	80	50-120	ug/Kg
Benzo(k)fluoranthene	200.0	160.6	80	51-120	ug/Kg
Benzo(a)pyrene	200.0	159.5	80	48-120	ug/Kg
Indeno(1,2,3-cd)pyrene	200.0	168.0	84	50-122	ug/Kg
Dibenz(a,h)anthracene	200.0	172.7	86	50-122	ug/Kg
Benzo(g,h,i)perylene	200.0	163.2	82	50-120	ug/Kg
QC1332121 Surrogate			%REC	Limits	
Nitrobenzene-d5			74	44-120	
2-Fluorobiphenyl			68	46-120	
Terphenyl-d14			76	52-120	

Enthalpy Analytical Report: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-02-2-20260114

Basis: as received

Prepared: 01/19/26

Type: MS

DF: 24.88

Analyzed: 01/20/26

MSS Lab ID: 550889-003

Batch#: 392912

Prep: EPA 3546

Lab ID: QC1332122

Sampled: 01/14/26

Analysis: EPA 8270C-SIM

Matrix: Soil

Received: 01/14/26

Analyst: MSS

QC1332122 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
1-Methylnaphthalene	<39.36	199.0	168.8	85	47-120	ug/Kg
2-Methylnaphthalene	43.56	199.0	241.6	100	46-120	ug/Kg
Naphthalene	<42.31	199.0	173.0	87	43-120	ug/Kg
Acenaphthylene	<40.21	199.0	184.9	93	48-120	ug/Kg
Acenaphthene	<26.05	199.0	144.8	73	43-120	ug/Kg
Fluorene	<28.25	199.0	142.7	72	49-120	ug/Kg
Phenanthrene	39.42	199.0	202.5	82	45-120	ug/Kg
Anthracene	<25.01	199.0	211.3	106	47-120	ug/Kg
Fluoranthene	52.03	199.0	235.0	92	42-120	ug/Kg
Pyrene	<82.47	199.0	258.7	130 *	43-120	ug/Kg
Benzo(a)anthracene	54.47	199.0	245.4	96	44-123	ug/Kg
Chrysene	127.9	199.0	455.9	165 *	40-120	ug/Kg
Benzo(b)fluoranthene	279.4	199.0	608.3	165 *	39-120	ug/Kg
Benzo(k)fluoranthene	85.13	199.0	281.5	99	43-120	ug/Kg
Benzo(a)pyrene	143.5	199.0	360.8	109	38-120	ug/Kg
Indeno(1,2,3-cd)pyrene	270.3	199.0	707.8	220 *	44-120	ug/Kg
Dibenz(a,h)anthracene	66.52	199.0	252.0	93	41-120	ug/Kg
Benzo(g,h,i)perylene	512.3	199.0	1,215	353 *	43-120	ug/Kg

QC1332122 Surrogate	%REC	Limits
Nitrobenzene-d5	73	44-120
2-Fluorobiphenyl	70	46-120
Terphenyl-d14	70	52-120

Enthalpy Analytical Report: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-02-2-20260114

Basis: as received

Prepared: 01/19/26

Type: MSD

DF: 24.88

Analyzed: 01/20/26

MSS Lab ID: 550889-003

Batch#: 392912

Prep: EPA 3546

Lab ID: QC1332123

Sampled: 01/14/26

Analysis: EPA 8270C-SIM

Matrix: Soil

Received: 01/14/26

Analyst: MSS

QC1332123 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1-Methylnaphthalene	199.0	143.4	72	47-120	ug/Kg	16	33
2-Methylnaphthalene	199.0	191.2	74	46-120	ug/Kg	23	34
Naphthalene	199.0	143.1	72	43-120	ug/Kg	19	36
Acenaphthylene	199.0	143.3	72	48-120	ug/Kg	25	35
Acenaphthene	199.0	139.9	70	43-120	ug/Kg	3	36
Fluorene	199.0	120.3	60	49-120	ug/Kg	17	34
Phenanthrene	199.0	184.3	73	45-120	ug/Kg	9	47
Anthracene	199.0	172.3	87	47-120	ug/Kg	20	45
Fluoranthene	199.0	624.5	288 *	42-120	ug/Kg	91 *	59
Pyrene	199.0	906.9	456 *	43-120	ug/Kg	111 *	61
Benzo(a)anthracene	199.0	262.6	105	44-123	ug/Kg	7	55
Chrysene	199.0	414.3	144 *	40-120	ug/Kg	10	53
Benzo(b)fluoranthene	199.0	476.2	99	39-120	ug/Kg	24	55
Benzo(k)fluoranthene	199.0	207.6	62	43-120	ug/Kg	30	44
Benzo(a)pyrene	199.0	287.3	72	38-120	ug/Kg	23	54
Indeno(1,2,3-cd)pyrene	199.0	474.8	103	44-120	ug/Kg	39	48
Dibenz(a,h)anthracene	199.0	202.6	68	41-120	ug/Kg	22	46
Benzo(g,h,i)perylene	199.0	791.4	140 *	43-120	ug/Kg	42	47

QC1332123 Surrogate

	%REC	Limits
Nitrobenzene-d5	64	44-120
2-Fluorobiphenyl	62	46-120
Terphenyl-d14	60	52-120

Legend

*: Value is outside QC limits

RPD: Relative Percent
Difference

California Title 22 Metals

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-20260114

Basis: as received

Prepared: 01/18/26

Lab ID: 550889-001

Sampled: 01/14/26

Matrix: Soil

Received: 01/14/26

550889-001 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	0.54	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Arsenic	4.2	1.0	0.39	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Barium	310	1.0	0.14	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Beryllium	0.33 J	0.50	0.027	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cadmium	0.39 J	0.50	0.062	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Chromium	31	1.0	0.11	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cobalt	8.3	0.50	0.087	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Copper	23	1.0	0.34	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Lead	130	1.0	0.24	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Mercury	0.083 J	0.16	0.014	mg/Kg	1.111	392846	01/18/26	EPA 7471A	EPA 7471A	KCD
Molybdenum	0.56 J	1.0	0.20	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Nickel	31	1.0	0.12	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.0	0.52	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Silver	0.045 J	0.50	0.027	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Thallium	0.85 J	3.0	0.26	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Vanadium	36	1.0	0.058	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	170	5.0	1.0	mg/Kg	1.000	392856	01/19/26	EPA 3050B	EPA 6010B	SBW

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

California Title 22 Metals

Lab #: 550889

Project#: 0176.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-60640112

Basis: as received

Prepared: 01/18/64

Lab ID: 550889-006

Sampled: 01/12/64

Matrix: Soil

Received: 01/12/64

550889-002 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	0.52	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Arsenic	6.6	1.0	0.39	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Barium	390	1.0	0.12	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Beryllium	0.34 J	0.50	0.067	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Cadmium	3.3	0.50	0.046	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Chromium	40	1.0	0.11	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Cobalt	9.5	0.50	0.087	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Copper	33	1.0	0.32	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Lead	350	1.0	0.62	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Mercury	0.050 J	0.15	0.012	mg/Kg	1.071	396824	01/18/64	EPA 7271A	EPA 7271A	KCD
Molybdenum	1.3	1.0	0.60	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Nickel	47	1.0	0.16	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Selenium	0.66 J	3.0	0.56	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Silver	ND	0.50	0.067	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Thallium	0.55 J	3.0	0.64	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Vanadium	35	1.0	0.058	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW
Zinc	1,600	5.0	1.0	mg/Kg	1.000	396854	01/19/64	EPA 3050B	EPA 4010B	SBW

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

California Title 22 Metals

Lab #: 550889

Project#: 06E1.000.00E

Client: Terraphase Pt git eerit g

Location: nB&l

Field ID: SB-01-1-10120664

Basis: as received

Prepared: 06/68/12

Lab ID: 550889-000

Sampled: 06/64/12

Matrix: SI iA

Received: 06/64/12

550889-003 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
nt riy l t N	D3	1.9	0.50	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Arsenic	12	0.9E	0.08	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Barium	190	0.9E	0.64	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Beryllium	0.31 J	0.49	0.01E	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Cadmium	0.35 J	0.49	0.020	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Chromium	45	0.9E	0.66	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Cobalt	9.0	0.49	0.085	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Copper	59	0.9E	0.00	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Lead	66	0.9E	0.14	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Mercury	0.30	0.65	0.060	y g/Kg	6.051	091842	06/68/12	PWh E4E6n	PWh E4E6n	KC3
Molybdenum	1.2	0.9E	0.69	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Nickel	59	0.9E	0.61	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Selenium	1.3 J	1.9	0.50	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Silver	0.11 J	0.49	0.012	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Thallium	0.68 J	1.9	0.12	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Vanadium	35	0.9E	0.052	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7
Zinc	93	4.9	0.98	y g/Kg	0.9E09	091852	06/69/12	PWh o050B	PWh 2060B	SB7

ueget d

J: Psriy ared vaAe

MDL: Merhl d 3 erecrtit t uiy im

ND: DI n8 erecred ant r abl ve M3 u

RL: Repl rrit g uiy im

California Vitle 33 Metals

Lab #: 550889

Project#: 047130KK307

Client: Terraphase En. ineerin.

Location: AB&I

Field ID: SB-01-2-10160442

Basis: as received

Prepared: 04/48/16

Lab ID: 550889-002

Sampled: 04/42/16

Matrix: Soil

Received: 04/42/16

550889-001 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	139	0351	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Arsenic	4.1	036	0368	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Barium	23	036	0342	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Beryllium	0.33 J	038	0316	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Cadmium	0.099 J	038	0359	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Chromium	9.6	036	0344	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Cobalt	5.5	038	0382	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Copper	8.9	036	03K	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Lead	5.1	036	031K	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Mercury	0.06NJ	036	0342	m. /g.	434K1	K91826	04/48/16	EPA 7274A	EPA 7274A	gCD
Molybdenum	0.50 J	036	0349	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
nickel	44	036	0344	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Selenium	ND	139	0350	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Silver	ND	038	0316	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Thallium	0.13 J	139	0315	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Zinc	4N	036	0356	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW
Zinc	3N	238	0398	m. /g.	03645	K91856	04/49/16	EPA K050B	EPA 6040B	SBW

Le. end

J: Estimated value

MDL: Method Detection Limit

kD: Not Detected at or above MDL

RL: Reportin. Limit

Calif6rAia Vitle 22 Metals

Lab h: 99055o

Pr6jecth: 0472.011.007

ClieAt: Tceæsphs crEt gvt ccæt g

L6cati6A: nB&l

Field ID: SB-01-2-2026044a

Basis: s ræi cvdc/

Prepared: 0484586

Lab ID: 99055o-009

Sampled: 0484a86

Matrix: SI A

Received: 0484a86

550889-005 1 Aalnte	ResyIt	RL	MDL	u Aits	DF	BatcUh	1 Aaln#ed	Prep	1 Aalnsis	1 Aalnst
ntny l t N	D3	2.o	0.91	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
1 rseAic	z4	0.o5	0.1o	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
Bariym	9.	0.o5	0.4a	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
Bernlliym	0423 J	0.a0	0.027	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
Cadmiym	04 o J	0.a0	0.060	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
CUr6miym	3z	0.o5	0.44	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
C6balt	. 3	0.a0	0.056	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
C6pper	. 3	0.o5	0.11	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
Lead	348	0.o5	0.2a	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
Mercyrn	040N2 J	0.47	0.049	y g8Kg	4.200	1o25a6	0484586	EPnr7a74n	EPnr7a74n	KC3
M6lnbdeAym	0428 J	0.o5	0.4o	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
k icTel	z.	0.o5	0.42	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
ScA t uy	D3	2.o	0.94	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
SwA ce	D3	0.a0	0.026	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
VUalliy	0488 J	2.o	0.26	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
ZaAadiym	39	0.o5	0.097	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW
7iAc	55	a.o	0.0o	y g8Kg	0.o50a	1o2596	0484o86	EPnr1090B	EPnr6040B	SBW

Logct /

J: E ny sra/ rdsAic

MDL: Mchrl / r3 crai nlt rLy vn

k D: DI r8 crai n/ rsmt esbl dcrM3 L

RL: Rcpl ent grLy vn

3 alifornia Vitle JJ Metals

Lab #: 99055o

Project#: 0a76.011.007

3lient: Tcæsphs crEt gvt ccæt g

Location: nB&l

Field ID: SB-01-2-60640aa2

Basis: s ræi cvdc/

Prepared: 0a&a5&4

Lab ID: 99055o-004

Sampled: 0a&a2&4

Matrix: SI A

Received: 0a&a2&4

550889-001 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
ntny l t N	D3	6.o	0.96	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Arsenic	145	0.o9	0.15	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Barium	. 50	0.o9	0.a2	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Beryllium	0428	0.25	0.064	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
3 admium	04J9 C	0.25	0.09o	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
3 hromium	1.	0.o9	0.aa	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
3 obalt	. J	0.25	0.051	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
3 opper	68	0.o9	0.16	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Lead	J6	0.o9	0.61	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Mercury	0481 C	0.a9	0.0a1	y g&Kg	a.096	1o6524	0a&a5&4	EPnr727an	EPnr727an	KC3
Molybdenum	041. C	0.o9	0.a0	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Nickel	51	0.o9	0.aa	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Selenium	04T C	6.o	0.2o	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Snice	D3	0.25	0.069	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Vhallium	045. C	6.o	0.69	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
Zanadium	1J	0.o9	0.099	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW
7inc	T9	2.5	0.o7	y g&Kg	0.o962	1o6594	0a&a0&4	EPnr1090B	EPnr40a0B	SBW

ucgct /

G: E ny sra/ rdsAc

MDL: Mchrl / r3 crai nlt ruy vn

ND: DI r& crai rø/ rsmt esbl dcrM3 u

RL: Rcpl ent gruy vn

6 alif4rnia Vitle 33 Metals

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-04-2-20260114

Basis: as received

Prepared: 01/18/26

Lab ID: 550889-007

Sampled: 01/14/26

Matrix: Soil

Received: 01/14/26

550889-001 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	2.9 J	2.9	0.53	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Arsenic	0.97	0.97	0.38	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Barium	0.97	0.97	0.14	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Beryllium	0.49	0.49	0.027	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cadmium	0.49	0.49	0.060	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Chromium	0.97	0.97	0.11	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cobalt	0.49	0.49	0.085	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Copper	0.97	0.97	0.33	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Lead	0.97	0.97	0.24	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Mercury	0.15	0.15	0.013	mg/Kg	1.052	392846	01/18/26	EPA 7471A	EPA 7471A	KCD
Molybdenum	0.97	0.97	0.19	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Nickel	0.97	0.97	0.12	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Selenium	2.9 J	2.9	0.50	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Silver	0.49 J	0.49	0.026	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Thallium	2.9 J	2.9	0.26	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	0.97	0.97	0.056	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	4.9	4.9	0.98	mg/Kg	0.9709	392856	01/19/26	EPA 3050B	EPA 6010B	SBW

Legend

J: Estimated value

MDL: Method Detection Limit

RL: Reporting Limit

JalifCrAia Vitle . . Metals

Lab h: 550889

PrCjecth: 0472.033.007

JlieAt: Terraphase Engineering

LCcatiCA: AB&I

Field ID: SB-01-1-20260441

Basis: as received

Prepared: 04/48/26

Lab ID: 550889-008

Sampled: 04/41/26

Matrix: Soil

Received: 04/41/26

550889-008 1 Aalnte	Resylt	RL	MDL	uAits	DF	BatcUh	1 Aaln#ed	Prep	1 Aalnsis	1 Aalnst
Antimony	ND	3.0	0.51	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
1 rseAic	z4	0.99	0.39	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Bariym	90	0.99	0.41	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Bernlliym	0423	0.50	0.027	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Jadmiym	043z	0.50	0.064	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
J UrCmiym	. 5	0.99	0.44	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
J Cbalt	. 48	0.50	0.087	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
J Cpper	o9	0.99	0.33	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Lead	. o0	0.99	0.21	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Mercyrn	04b5	0.45	0.041	mg/Kg	4.074	392816	04/48/26	EPA 7174A	EPA 7174A	KCD
MClnbdeAym	648	0.99	0.49	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Nickel	949	0.99	0.42	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
SeleAiym	0495 T	3.0	0.54	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
Silver	04. T	0.50	0.026	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
VUalliyym	64 T	3.0	0.26	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
ZaAadiym	6o	0.99	0.057	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW
7iAc	620	5.0	4.0	mg/Kg	0.9904	392856	04/49/26	EPA 3050B	EPA 6040B	SBW

uegend

T: Estimated valLe

MDL: Method Detection uimit

ND: Not Detected at or above MDu

RL: Reporting uimit

CalifzrAia Vitle 22 Metals

Lab h: 440997

Przjecth: 02W0gg00W

ClieAt: Ti æ ph ri dKn3dhi i æh3

Lzcatiz A: PB&I

Field ID: SB-04-204-101a022s

Basis: r æ vi di 8

Prepared: 022951a

Lab ID: 440997-007

Sampled: 022s51a

Matrix: Sodl

Received: 022s51a

550889-009 1 Aalnte	ResyIt	RL	MDL	u Aits	DF	BatcUh	1 Aaln#ed	Prep	1 Aalnsis	1 Aalnst
1 Atimz An	4.2 3	167	001	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
1 rseAic	45	067a	009	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Bariym	440	067a	00s	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Bernlliym	0.4J 3	069	001a	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Cadmiym	0.58	069	0047	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
CUrzmiym	520	067a	002	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Czbalt	48	069	009s	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Czpper	450	067a	00g	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Lead	09	067a	00g	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Mercyrn	0.46 3	002a	0024	. 35r3	204s	g719sa	022951a	KEP040B	KEP020B	mCD
MzlnbdeAym	J.9	067a	0027	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Nickel	280	067a	002	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
SeleAiyM	0.8T 3	167	0010	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
Silver	0.0To 3	069	001a	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
VUalliyM	4.4 3	167	0014	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
ZaAadiym	Jo	067a	004a	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA
7iAc	460	s0	009	. 35r3	067a24	g7194a	022751a	KEP040B	KEP020B	SBA

Li 3i n8

3: Krt d ti 80 lui

MDL: Mi tho80di ti vt0n0d d

RL: Ri podd30d d

soil for Vitrinite NN Metals

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-DUP-2-20260114

Basis: as received

Prepared: 01/18/26

Lab ID: 550889-010

Sampled: 01/14/26

Matrix: Soil

Received: 01/14/26

550889-010 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	1.02	3.0	0.54	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Arsenic	3.2	0.99	0.39	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Barium	100	0.99	0.14	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Beryllium	0.23	0.50	0.027	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cadmium	0.69	0.50	0.061	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Chromium	58	0.99	0.11	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cobalt	10	0.50	0.087	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Copper	60	0.99	0.33	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Lead	60	0.99	0.24	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Mercury	0.01	0.16	0.015	mg/Kg	1.154	392846	01/18/26	EPA 7471A	EPA 7471A	KCD
Molybdenum	0.80	0.99	0.19	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Nickel	33	0.99	0.12	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Selenium	0.99	3.0	0.51	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Silver	0.058	0.50	0.026	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Thallium	0.02	3.0	0.26	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	60	0.99	0.057	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	100	5.0	1.0	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW

Legend

2: Estimated value

MDL: Method Detection Limit

RL: Reporting Limit

JaliCrnia f itle . . Metals

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-DUP-4-20260114

Basis: as received

Prepared: 01/18/26

Lab ID: 550889-011

Sampled: 01/14/26

Matrix: Soil

Received: 01/14/26

550889-011 Analyte	Result	RL	MDL	Units	DF	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	0.54	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Arsenic	14	0.99	0.39	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Barium	55	0.99	0.14	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Beryllium	04 2 3	0.50	0.027	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cadmium	0499 3	0.50	0.061	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Chromium	049	0.99	0.11	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Cobalt	24	0.50	0.087	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Copper	64	0.99	0.33	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Lead	240	0.99	0.24	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Mercury	042. 3	0.16	0.014	mg/Kg	1.111	392846	01/18/26	EPA 7471A	EPA 7471A	KCD
Molybdenum	0420 3	0.99	0.19	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Nickel	64	0.99	0.12	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.0	0.51	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Silver	0412 3	0.50	0.026	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.0	0.26	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Vanadium	16	0.99	0.057	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW
Zinc	. 2	5.0	1.0	mg/Kg	0.9901	392856	01/19/26	EPA 3050B	EPA 6010B	SBW

Legend

3: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Type: BLANK

Batch#: 392846

Analysis: EPA 7471A

Lab ID: QC1331886

Prepared: 01/18/26

Analyst: KCD

Matrix: Soil

Analyzed: 01/18/26

DF: 0.9998

Prep: EPA 7471A

QC1331886 Analyte	Result	RL	MDL	Units
Mercury	ND	0.14	0.013	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 550889		Project#: 0172.033.007				
Client: Terraphase Engineering		Location: AB&I				
Type: LCS		Batch#: 392846		Analysis: EPA 7471A		
Lab ID: QC1331887		Prepared: 01/18/26		Analyst: KCD		
Matrix: Soil		Analyzed: 01/18/26				
DF: 0.9998		Prep: EPA 7471A				
QC1331887 Analyte		Spiked	Result	%REC	Limits	Units
Mercury		0.8333	0.8573	103	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-20260114

Basis: as received

Prepared: 01/18/26

Type: MS

DF: 1.132

Analyzed: 01/18/26

MSS Lab ID: 550889-001

Batch#: 392846

Prep: EPA 7471A

Lab ID: QC1331888

Sampled: 01/14/26

Analysis: EPA 7471A

Matrix: Soil

Received: 01/14/26

Analyst: KCD

QC1331888 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.08279	0.9434	1.011	98	75-125	mg/Kg

Field ID: SB-01-2-20260114

Basis: as received

Prepared: 01/18/26

Type: MSD

DF: 1.071

Analyzed: 01/18/26

MSS Lab ID: 550889-001

Batch#: 392846

Prep: EPA 7471A

Lab ID: QC1331889

Sampled: 01/14/26

Analysis: EPA 7471A

Matrix: Soil

Received: 01/14/26

Analyst: KCD

QC1331889 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8929	0.9957	102	75-125	mg/Kg	4	20

Legend

RPD: Relative Percent
Difference

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Type: BLANK

Batch#: 392856

Analysis: EPA 6010B

Lab ID: QC1331930

Prepared: 01/18/26

Analyst: SBW

Matrix: Soil

Analyzed: 01/19/26

DF: 1.000

Prep: EPA 3050B

QC1331930 Analyte	Result	RL	MDL	Units
Antimony	ND	3.0	0.54	mg/Kg
Arsenic	ND	1.0	0.39	mg/Kg
Barium	ND	1.0	0.14	mg/Kg
Beryllium	ND	0.50	0.027	mg/Kg
Cadmium	ND	0.50	0.062	mg/Kg
Chromium	ND	1.0	0.11	mg/Kg
Cobalt	ND	0.50	0.087	mg/Kg
Copper	ND	1.0	0.34	mg/Kg
Lead	ND	1.0	0.24	mg/Kg
Molybdenum	ND	1.0	0.20	mg/Kg
Nickel	ND	1.0	0.12	mg/Kg
Selenium	ND	3.0	0.52	mg/Kg
Silver	ND	0.50	0.027	mg/Kg
Thallium	ND	3.0	0.26	mg/Kg
Vanadium	ND	1.0	0.058	mg/Kg
Zinc	ND	5.0	1.0	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Type: LCS

Batch#: 392856

Analysis: EPA 6010B

Lab ID: QC1331931

Prepared: 01/18/26

Analyst: SBW

Matrix: Soil

Analyzed: 01/19/26

DF: 1.000

Prep: EPA 3050B

QC1331931 Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	101.0	101	80-120	mg/Kg
Arsenic	100.0	98.85	99	80-120	mg/Kg
Barium	100.0	102.5	103	80-120	mg/Kg
Beryllium	100.0	101.8	102	80-120	mg/Kg
Cadmium	100.0	99.93	100	80-120	mg/Kg
Chromium	100.0	99.53	100	80-120	mg/Kg
Cobalt	100.0	102.0	102	80-120	mg/Kg
Copper	100.0	98.39	98	80-120	mg/Kg
Lead	100.0	102.7	103	80-120	mg/Kg
Molybdenum	100.0	97.14	97	80-120	mg/Kg
Nickel	100.0	101.2	101	80-120	mg/Kg
Selenium	100.0	95.71	96	80-120	mg/Kg
Silver	50.00	47.07	94	80-120	mg/Kg
Thallium	100.0	103.1	103	80-120	mg/Kg
Vanadium	100.0	102.7	103	80-120	mg/Kg
Zinc	100.0	102.2	102	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-20260114

Basis: as received

Prepared: 01/18/26

Type: MS

DF: 0.9901

Analyzed: 01/19/26

MSS Lab ID: 550889-001

Batch#: 392856

Prep: EPA 3050B

Lab ID: QC1331932

Sampled: 01/14/26

Analysis: EPA 6010B

Matrix: Soil

Received: 01/14/26

Analyst: SBW

QC1331932 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<0.5416	99.01	40.33	41 *	75-125	mg/Kg
Arsenic	4.200	99.01	102.1	99	75-125	mg/Kg
Barium	314.8	99.01	280.8	-34 *	75-125	mg/Kg
Beryllium	0.3252	99.01	100.6	101	75-125	mg/Kg
Cadmium	0.3920	99.01	95.97	97	75-125	mg/Kg
Chromium	31.11	99.01	140.3	110	75-125	mg/Kg
Cobalt	8.252	99.01	105.1	98	75-125	mg/Kg
Copper	23.17	99.01	126.0	104	75-125	mg/Kg
Lead	126.4	99.01	141.8	16 *	75-125	mg/Kg
Molybdenum	0.5563	99.01	91.03	91	75-125	mg/Kg
Nickel	31.15	99.01	132.9	103	75-125	mg/Kg
Selenium	<0.5157	99.01	95.12	96	75-125	mg/Kg
Silver	0.04503	49.50	46.13	93	75-125	mg/Kg
Thallium	0.8453	99.01	99.36	100	75-125	mg/Kg
Vanadium	35.60	99.01	152.5	118	75-125	mg/Kg
Zinc	170.1	99.01	235.7	66 *	75-125	mg/Kg

Field ID: SB-01-2-20260114

Basis: as received

Prepared: 01/18/26

Type: MSD

DF: 0.9615

Analyzed: 01/19/26

MSS Lab ID: 550889-001

Batch#: 392856

Prep: EPA 3050B

Lab ID: QC1331933

Sampled: 01/14/26

Analysis: EPA 6010B

Matrix: Soil

Received: 01/14/26

Analyst: SBW

QC1331933 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	96.15	39.86	41 *	75-125	mg/Kg	2	35
Arsenic	96.15	102.2	102	75-125	mg/Kg	3	20
Barium	96.15	291.1	-25 *	75-125	mg/Kg	4	31
Beryllium	96.15	99.84	103	75-125	mg/Kg	2	20
Cadmium	96.15	94.26	98	75-125	mg/Kg	1	20
Chromium	96.15	136.2	109	75-125	mg/Kg	1	25
Cobalt	96.15	103.5	99	75-125	mg/Kg	1	20
Copper	96.15	128.0	109	75-125	mg/Kg	4	25
Lead	96.15	141.2	15 *	75-125	mg/Kg	1	28
Molybdenum	96.15	90.42	93	75-125	mg/Kg	2	20
Nickel	96.15	132.7	106	75-125	mg/Kg	2	29
Selenium	96.15	94.76	99	75-125	mg/Kg	3	20
Silver	48.08	46.54	97	75-125	mg/Kg	4	20
Thallium	96.15	98.09	101	75-125	mg/Kg	2	20
Vanadium	96.15	146.3	115	75-125	mg/Kg	2	20
Zinc	96.15	230.5	63 *	75-125	mg/Kg	1	31

Legend

*: Value is outside QC limits

 RPD: Relative Percent
Difference

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-20260114

Basis: as received

Analyzed: 01/19/26

Type: Post Digest Spike

DF: 1.000

Prep: EPA 3050B

MSS Lab ID: 550889-001

Batch#: 392856

Analysis: EPA 6010B

Lab ID: QC1331934

Sampled: 01/14/26

Analyst: SBW

Matrix: Soil

Received: 01/14/26

QC1331934 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<0.5416	100.0	94.07	94	75-125	mg/Kg
Arsenic	4.200	100.0	94.10	90	75-125	mg/Kg
Barium	314.8	100.0	397.6	83	75-125	mg/Kg
Beryllium	0.3252	100.0	90.70	90	75-125	mg/Kg
Cadmium	0.3920	100.0	85.33	85	75-125	mg/Kg
Chromium	31.11	100.0	117.1	86	75-125	mg/Kg
Cobalt	8.252	100.0	94.02	86	75-125	mg/Kg
Copper	23.17	100.0	115.3	92	75-125	mg/Kg
Lead	126.4	100.0	211.5	85	75-125	mg/Kg
Molybdenum	0.5563	100.0	88.87	88	75-125	mg/Kg
Nickel	31.15	100.0	115.6	84	75-125	mg/Kg
Selenium	<0.5157	100.0	88.03	88	75-125	mg/Kg
Silver	0.04503	50.00	43.71	87	75-125	mg/Kg
Thallium	0.8453	100.0	90.00	89	75-125	mg/Kg
Vanadium	35.60	100.0	127.7	92	75-125	mg/Kg
Zinc	170.1	100.0	252.1	82	75-125	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 550889

Project#: 0172.033.007

Client: Terraphase Engineering

Location: AB&I

Field ID: SB-01-2-20260114

Basis: as received

Analyzed: 01/19/26

Type: Serial Dilution

DF: 5.000

Prep: EPA 3050B

MSS Lab ID: 550889-001

Batch#: 392856

Analysis: EPA 6010B

Lab ID: QC1332095

Sampled: 01/14/26

Analyst: SBW

Matrix: Soil

Received: 01/14/26

QC1332095 Analyte	MSS Result	MSS RL	Result	RL	Units	% Diff	Lim
Antimony	ND	3.000	ND	15.00	mg/Kg	NC	10
Arsenic	4.200	1.000	4.043 J	5.000	mg/Kg	NC	10
Barium	314.8	1.000	316.5	5.000	mg/Kg	1	10
Beryllium	0.3252	0.5000	0.3165 J	2.500	mg/Kg	NC	10
Cadmium	0.3920	0.5000	0.4419 J	2.500	mg/Kg	NC	10
Chromium	31.11	1.000	31.40	5.000	mg/Kg	1	10
Cobalt	8.252	0.5000	7.814	2.500	mg/Kg	5	10
Copper	23.17	1.000	21.58	5.000	mg/Kg	7	10
Lead	126.4	1.000	129.8	5.000	mg/Kg	3	10
Molybdenum	0.5563	1.000	ND	5.000	mg/Kg	NC	10
Nickel	31.15	1.000	31.85	5.000	mg/Kg	2	10
Selenium	ND	3.000	ND	15.00	mg/Kg	NC	10
Silver	0.04503	0.5000	ND	2.500	mg/Kg	NC	10
Thallium	0.8453	3.000	ND	15.00	mg/Kg	NC	10
Vanadium	35.60	1.000	35.55	5.000	mg/Kg	0	10
Zinc	170.1	5.000	175.7	25.00	mg/Kg	3	10

Legend

J: Estimated value

NC: Not Calculated

ND: Not Detected at or above MDL

RL: Reporting Limit

Laboratory Job Number 550889

Subcontracted Products

Nautilus Environmental, Inc.



Test Procedure: California Title-22 Hazardous Waste Testing

Test Period: January 21 to 25, 2026

Prepared for: Enthalpy Analytical
931 W. Barkely Avenue
Orange, CA 92868

Testing Location: Nautilus Environmental, Inc.
4340 Vandever Avenue
San Diego, CA 92120

Submitted: January 26, 2026

EXECUTIVE SUMMARY

Sample ID	Test Type	Result
SB-01-2-20260114	Screen	Pass
SB-01-4-20260114	Screen	Pass
SB-02-2-20260114	Screen	Pass
SB-02-4-20260114	Screen	Pass
SB-03-2-20260114	Screen	Pass
SB-03-4-20260114	Screen	Pass
SB-04-2-20260114	Screen	Pass
SB-04-4-20260114	Screen	Pass
SB-05-1.5-20260114	Screen	Pass
SB-DUP-2-20260114	Screen	Pass
SB-DUP-4-20260114	Screen	Pass

Result = a sample passes if mean mortality is <40% in the 750 mg/L concentration

A fail requires a definitive test to determine whether the sample is non-hazardous

Reference: Polisini, James M., Rebecca G. Miller. 1988. Static Acute Bioassay Procedures for Hazardous Waste Samples. California Department of Fish and Game. Sacramento, CA

Data Quality Assurance:

- Nautilus Environmental, Inc. is accredited in accordance with NELAP by the State of Oregon Environmental Laboratory Accreditation Program (Certificate No. 4053). It is also certified by the State of California Environmental Laboratory Accreditation Program (Certificate No. 1802).
- All data have been reviewed and verified.
- All test results have met minimum test acceptability criteria under their respective protocols, unless otherwise noted in this report.
- All test results have met internal Quality Assurance Program requirements, unless otherwise noted in this report.

Results verified by:



Amanda Sage, Project Manager Assistant

Freshwater Acute Bioassay
Static Conditions
DF-018

Hazardous Waste Characterization

Water Quality Measurements
& Test Organism Survival

Client: EA Orange
Test No's.: 2001-S103 to 2001-S112

Test Species: P. promelas
Start Date/Time: 1/21/26 1440
End Date/Time: 1/25/26 1335

Sample ID	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
Lab Control Batch #: 1	A	10	10	10	10	10	7.73	8.10	7.60	7.58	7.55	8.7	8.3	8.9	8.9	9.1	19.8	21.5	20.0	19.5	20.6	100
	B	10	10	10	10	10	7.73	8.06	7.66	7.58	7.65	8.8	8.6	9.1	9.0	9.2	19.8	21.0	20.0	19.7	20.5	100
Tech Initials:	Counts:	FM	EC	EC	WF	DT	B.17															
	Readings:	WF	EC	EC	WF	DT																
	Initial Count QC:	WF																				

Fish size at test initiation^b:

	Alkalinity ^a	Hardness ^a
Concentration	Initial	Initial
Control	20	41

^a(mg/L as CaCO₃)

Weights (g): 0.476 0.440 0.323 0.329 0.338 0.337 0.351 0.464 0.468 0.472

Mean (g) = 0.400

Lengths (mm): 33.0 33.5 29.5 29.5 30.0 29.5 30.0 33.0 32.5 33.0

Mean (mm) = 31.4

Weight min/max (g) = 0.323 / 0.476

Weight max/min ratio^b = 1.474

Length min/max (mm) = 29.5 / 33.5

Loading rate (g/L)^c = 0.800

Initials and Date: FM 1/21/26

Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26

Age at Initiation: Juvenile

Animal Acclimation Qualifiers:
(circle all that apply) Q22 / Q23 / none

Environmental Chamber: T22 Room

Comments: ^b10 random fish are sacrificed at initiation for size determination. The largest fish should not weigh more than 1.5X the smallest fish.

^cLoading rate should not exceed 1.0 g/L 0.800 WF 1/21/26

QC Check: HH 1/26/26

Final Review: ACS 1/26/26

Client: EA orange

Test Species: P. promelas

Test No's.: 2001-S113 to 2001-S115

Start Date/Time: 1/21/26 1440

End Date/Time: 1/25/26 1335

Sample ID	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
		0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
Lab Control Batch #: 2	A	10	10	10	10	10	7.66	7.73	7.67	7.57	7.65	8.8	7.9	8.8	8.9	9.0	19.3	21.4	22.4	20.0	20.6	100
	B	10	10	10	10	10	7.71	7.75	7.77	7.64	7.75	8.9	8.3	8.9	9.0	9.1	19.3	21.0	22.2	19.9	20.8	100
Tech Initials:	Counts:	FM	EC	EC	WF	DT																
	Readings:	WF	EC	EC	WF	DT																
	Initial Count QC:	WF																				

Fish size at test initiation^b:

	Alkalinity ^a	Hardness ^a
Concentration	Initial	Initial
Control	220 23	41

^a(mg/L as CaCO₃)

Weights (g): 0.476 0.440 0.323 0.329 0.338 0.337 0.351 0.464 0.468 0.472

Mean (g) = 0.400

Lengths (mm): 33.0 33.5 29.5 29.5 30.0 29.5 30.0 33.0 32.5 33.0

Mean (mm) = 31.4

Weight min/max (g) = 0.323 / 0.476

Weight max/min ratio^b = 1.474

Length min/max (mm) = 29.5 / 33.5

Loading rate (g/L)^c = 0.800

Initials and Date: FM 1/21/26

Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26

Age at Initiation: Juvenile

Animal Acclimation Qualifiers:
(circle all that apply) Q22 / Q23 / none

Environmental Chamber: T22 Room

Comments: ^b10 random fish are sacrificed at initiation for size determination. The largest fish should not weigh more than 1.5X the smallest fish.

^cLoading rate should not exceed 1.0 g/L Q23 FM 1/21/26 Q218 WF 1/22/26

Greater than 2°C shift in 24 hrs; however, test met acceptability criteria & is deemed suitable for reporting AT5 1/26/26

QC Check: FM 1/26/26

Final Review: AGS 1/26/26

Client: EA Orange

Test Species: P. promelas

Test No.: 2601-S104, 2601-S105, 2601-S106

Start Date/Time: 1/21/26 1440

Sample Log-in #: 26-5012, 26-5013, 26-5014

End Date/Time: 1/25/26 1335

Sample ID	Conc. (mg/L)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
			0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
550889-001	400	A	10	10	10	10	10	7.72	7.73	7.63	7.51	7.67	9.0	8.8	8.9	9.0	9.1	19.8	21.0	22.0	19.8	20.4	100
	400	B	10	10	10	10	10	7.75	7.75	7.71	7.64	7.74	9.1	8.8	9.0	9.2	9.3	19.8	21.3	20.2	19.9	20.4	100
	750	A	10	10	10	10	10	7.70	7.50	7.59	7.55	7.63	9.1	8.5	8.6	8.9	9.0	20.0	21.7	20.6	20.3	20.9	100
	750	B	10	10	10	10	10	7.82	7.70	7.71	7.64	7.72	9.1	8.7	8.9	9.2	9.2	19.7	21.5	20.1	19.9	20.8	100
550889-002	400	A	10	10	10	10	10	7.75	7.72	7.62	7.73	7.75	9.3	8.9	9.2	8.9	9.3	19.6	21.2	19.8	19.7	20.4	100
	400	B	10	10	10	10	10	7.77	7.69	7.62	7.70	7.71	9.3	8.8	9.1	8.9	9.2	19.5	21.2	20.0	19.8	20.6	100
	750	A	10	10	10	10	10	7.76	7.71	7.58	7.64	7.67	9.2	8.7	8.9	8.9	9.1	19.6	21.3	20.0	19.9	20.7	100
	750	B	10	10	10	10	10	7.74	7.61	7.60	7.65	7.68	9.2	8.7	8.9	9.0	9.1	19.6	21.1	20.0	19.7	20.5	100
550889-003	400	A	10	10	10	10	10	7.66	7.71	7.45	7.58	7.50	9.3	8.7	8.8	9.0	9.0	19.6	20.8	19.8	19.8	20.1	100
	400	B	10	10	10	10	10	7.67	7.64	7.54	7.56	7.64	9.2	8.7	9.0	9.0	9.1	19.7	21.4	20.2	20.1	20.8	100
	750	A	10	10	10	10	10	7.70	7.65	7.58	7.55	7.60	9.2	8.7	8.9	8.9	9.1	19.7	21.5	20.4	20.0	20.8	100
	750	B	10	10	10	10	10	7.67	7.51	7.53	7.50	7.52	9.3	8.6	8.7	8.8	9.0	19.8	21.1	20.4	20.1	20.6	100
Tech Initials:	Counts:		FM	EL	EC	WF	DT	G14															
	Readings:		WF	EC	EC	WF	DT																
	Initial Count QC:		WF																				

550889-001 Sample Description: Brown/Red Solid
550889-002 Sample Description: Brown Solid
550889-003 Sample Description: Brown Solid

Environmental Chamber: T22 Room Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26 Control Batch #: 1

Comments: Q18 EC 1/22/26

QC Check: HH 1/20/26 Final Review: ARS 1/26/26

Client: EA Orange

Test Species: P. promelas

Test No.: 2601-5107, 5601-5108, 2601-5109

Start Date/Time: 1/21/26 1440

Sample Log-in #: 26-5015, 26-5016, 26-5017

End Date/Time: 1/25/26 1335

Sample ID	Conc. (mg/L)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
			0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
550889-004	400	A	10	10	10	10	10	7.65	7.52	7.52	7.52	7.55	9.2	8.9	8.7	8.9	9.0	19.8	20.8	20.5	20.2	20.8	100
	400	B	10	10	10	10	10	7.65	7.52	7.58	7.53	7.58	9.3	8.8	8.8	9.0	9.0	19.8	21.4	20.6	20.3	20.8	100
	750	A	10	10	10	10	10	7.66	7.59	7.63	7.55	7.65	9.3	8.9	8.9	9.1	9.2	19.8	21.2	20.4	20.2	20.4	100
	750	B	10	10	10	10	10	7.67	7.57	7.62	7.60	7.67	9.3	8.9	8.9	9.1	9.2	19.9	21.1	20.1	20.0	20.7	100
550889-005	400	A	10	10	10	10	10	7.63	7.52	7.62	7.54	7.61	9.2	8.8	8.9	9.1	9.1	19.9	21.6	20.6	20.2	21.0	100
	400	B	10	10	10	10	10	7.65	7.54	7.58	7.57	7.60	9.3	8.7	8.8	9.1	9.0	20.0	21.7	20.8	20.4	21.2	100
	750	A	10	10	10	10	10	7.71	7.52	7.47	7.50	7.53	9.4	8.8	8.8	8.4	9.0	19.8	20.4	19.7	19.4	20.4	100
	750	B	10	10	10	10	10	7.66	7.47	7.46	7.44	7.45	9.4	8.7	8.6	8.4	8.9	19.7	20.6	20.0	19.8	20.4	100
550889-006	400	A	10	10	10	10	10	7.60	7.42	7.51	7.53	7.47	9.2	8.7	8.9	8.4	9.1	19.7	21.1	20.1	19.9	20.4	100
	400	B	10	10	10	10	10	7.64	7.40	7.49	7.45	7.47	9.4	8.6	8.8	8.4	9.0	19.7	20.9	20.0	19.8	20.2	100
	750	A	10	10	10	10	10	7.65	7.52	7.55	7.49	7.60	9.4	8.8	9.0	8.7	9.1	19.6	20.9	19.9	19.7	20.3	100
	750	B	10	10	10	10	10	7.66	7.57	7.59	7.54	7.64	9.4	8.9	9.1	8.8	9.2	19.7	21.0	19.2	19.5	20.2	100
Tech Initials:	Counts:		PM	EL	EL	WF	DT	Q14															
	Readings:		WF	EL	EL	WF	DT																
	Initial Count QC:		WF																				

550889-004 Sample Description: Light Brown Solid
550889-005 Sample Description: Light Brown Solid
550889-006 Sample Description: Dark Brown Solid

Environmental Chamber: T22 Room Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26 Control Batch #: 1

Comments: _____

QC Check: HH 1/26/26

Final Review: ACS 1/26/26

Client: EA Orange

Test Species: *P. promelas*

Test No.: 2601-S110, 2601-S111, 2601-S112

Start Date/Time: 1/21/26 1440

Sample Log-In #: 26-5018, 26-5019, 26-5020

End Date/Time: 1/25/26 1335

Sample ID	Conc. (mg/L)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
			0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
550889-007	400	A	10	10	10	10	10	7.82 ^{7.55}	7.44	7.57	7.56	7.69	9.0	9.1	8.9	8.5	8.9	19.9	20.3	19.5	19.7	20.4	100
	400	B	10	10	10	10	10	7.78	7.60	7.71	7.65	7.78	9.2	9.2	9.1	8.8	9.1	19.7	20.9	20.0	19.8	20.4	100
	750	A	10	10	10	10	10	7.83	7.67	7.78	7.73	7.86	9.3	9.1	9.0	8.9	9.2	19.8	21.1	20.2	19.8	20.4	100
	750	B	10	10	10	10	10	7.88	7.65	7.81	7.80	7.96	9.2	9.1	9.0	8.9	9.3	19.8	21.2	20.4	20.0	20.3	100
550889-008	400	A	10	10	10	10	10	7.83	7.58	7.66	7.69	7.77	9.3	8.9	8.8	8.8	9.1	19.9	21.5	20.6	20.3	20.8	100
	400	B	10	10	10	10	10	7.82	7.65	7.70	7.72	7.81	9.3	9.0	9.0	8.9	9.2	19.7	21.2	20.2	20.0	20.6	100
	750	A	10	10	10	10	10	7.85	7.67	7.71	7.72	7.86	9.3	9.1	9.1	9.1	9.3	19.8	20.9	19.6	19.6	20.3	100
	750	B	10	10	10	10	10	7.91	7.65	7.69	7.72	7.83	9.3	8.9	8.8	8.9	9.2	19.9	21.3	20.2	20.1	20.5	100
550889-009	400	A	10	10	10	10	10	7.78	7.55	7.62	7.63	7.74	9.4	9.0	8.8	9.0	9.2	20.0	21.5	20.6	20.3	20.8	100
	400	B	10	10	10	10	10	7.78	7.60	7.60	7.65	7.68	9.3	8.9	8.8	8.7	9.0	19.8	21.5	20.6	20.2	20.9	100
	750	A	10	10	10	10	10	7.81	7.57	7.57	7.62	7.62	9.3	8.8	8.7	8.8	9.1	19.7	21.1	20.2	19.6	20.1	100
	750	B	10	10	10	10	10	7.90	7.55	7.63	7.61	7.73	9.2	9.0	8.8	9.0	9.2	19.6	20.7	19.9	19.4	20.0	100
Tech Initials:	Counts:		FA	J	EC	WF	DT	Q14															
	Readings:		WF	J	EC	WF	DT																
	Initial Count QC:		WF																				

550889-007 Sample Description: Dark Brown Solid
550889-008 Sample Description: Brown Liquid/Solid
550889-009 Sample Description: Brown Rocks

Environmental Chamber: T22 Room Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26 Control Batch #: 1

Comments: Q14 w 1/22/26

QC Check: HH 1/26/26 Final Review: ACS 1/26/26

Client: EA Orange

Test Species: *P. promelas*

Test No.: 2001-S113, 2001-S114

Start Date/Time: 1/21/26 1440

Sample Log-in #: 26-5021, 26-5022

End Date/Time: 1/25/26 1335

Sample ID	Conc. (mg/L)	Rep	Number of Live Organisms					pH (units)					Dissolved Oxygen (mg/L)					Temperature (°C)					Percent Survival
			0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
550889-010	400	A	10	10	10	10	10	7.82	7.60	7.72	7.69	7.77	9.4	9.1	9.0	9.0	9.2	19.2	20.8	20.0	19.8	20.4	100
	400	B	10	10	10	10	10	7.73	7.57	7.60	7.65	7.68	9.4	8.9	8.7	8.9	9.0	19.2	21.1	20.2	19.9	20.6	100
	750	A	10	10	10	10	10	7.72	7.65	7.72	7.71	7.83	9.5	9.1	9.0	9.1	9.3	19.2	20.9	20.1	19.8	20.3	100
	750	B	10	10	10	10	10	7.75	7.67	7.71	7.74	7.77	9.4	9.2	9.0	9.2	9.2	19.3	20.3	19.8	19.4	20.2	100
550889-011	400	A	10	10	10	10	10	7.73	7.57	7.56	7.42	7.62	9.3	9.1	9.0	9.0	9.1	19.3	20.1	19.4	19.4	20.2	100
	400	B	10	10	10	10	10	7.71	7.61	7.64	7.61	7.72	9.5	9.0	8.8	9.0	9.2	19.3	21.1	20.2	19.9	20.3	100
	750	A	10	10	10	10	10	7.70	7.56	7.57	7.60	7.62	9.4	8.9	8.7	8.9	9.0	19.4	20.6	19.9	20.0	20.4	100
	750	B	10	10	10	10	10	7.68	7.61	7.53	7.57	7.59	9.4	8.8	8.7	9.0	9.0	19.4	20.8	19.8	19.4	20.2	100
	400	A	10																				
	400	B	10																				
	750	A	10																				
	750	B	10																				
Tech Initials:	Counts:		FM	W	EC	WF	DT																
	Readings:		WF	W	EC	WF	DT																
	Initial Count QC:		WF																				

550889-010 Sample Description: Brown Dirt
550889-011 Sample Description: Brown Rocks/Dirt
0 Sample Description:

Environmental Chamber: T22 Room Animal Source/Date Received: Thomas Fish Co. 1/6/26, 1/14/26 Control Batch #: 2

Comments:

QC Check: HH 1/26/26

Final Review: ACS 1/26/26

Subcontract Laboratory:
Nautilus Environmental, Inc.
4340 Vandever Ave.
San Diego, CA 92120
ATTN: Peter Arth
PO #: PO-083687

Enthalpy Order: EO-550889
PM: John Goyette
Email: john.goyette@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (510) 204-2233 Ext 13112

Results Due: Standard
TAT

Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SB-01-2-20260114	14-JAN-2026 09:05	550889-001	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S012, BROWN / red Solid
SB-01-4-20260114	14-JAN-2026 09:10	550889-002	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S013, BROWN Solid
SB-02-2-20260114	14-JAN-2026 10:20	550889-003	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S014, BROWN Solid
SB-02-4-20260114	14-JAN-2026 10:25	550889-004	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S015, light brown Solid
SB-03-2-20260114	14-JAN-2026 09:40	550889-005	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S016, Light brown Solid
SB-03-4-20260114	14-JAN-2026 09:45	550889-006	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S017, Dark brown Solid
SB-04-2-20260114	14-JAN-2026 11:15	550889-007	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S018, Dark brown Solid
SB-04-4-20260114	14-JAN-2026 11:30	550889-008	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S019, BROWN liquid / solid
SB-05-1.5-20260114	14-JAN-2026 13:20	550889-009	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S020, BROWN ROCKS
SB-DUP-2-20260114	14-JAN-2026 10:20	550889-010	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S021, BROWN DIRT
SB-DUP-4-20260114	14-JAN-2026 10:25	550889-011	1	Soil	Bioassay Hazardous Waste, Juvenile - OUT	26-S022, BROWN ROCKS / DIRT

Notes:	Relinquished By:	Received By:
	<i>[Signature]</i>	<i>[Signature]</i>
	Date: 1-16-26 1600	Date: 1/16/26 1600
	<i>[Signature]</i>	<i>[Signature]</i>
	Date: 1/16/26 1652	Date: 1/16/26 1652
	Date:	Date:

Glossary of Qualifier Codes

- Q1 - Temperature out of recommended range; corrective action taken and recorded in Test Temperature Correction Log
- Q2 - Temperature out of recommended range; no action taken, test terminated same day
- Q3 - Sample pH adjusted to within range of 6-9 with reagent grade NaOH or HCl, as needed
- Q4 - Test aerated; D.O. levels dropped below 4.0 mg/L
- Q5 - Test initiated with continuous aeration due to an anticipated drop in D.O.
- Q6 - Airline obstructed or fell out of replicate and replaced; drop in D.O. occurred
- Q7 - Salinity out of recommended range
- Q8 - Spilled test chamber/ Unable to recover test organism(s)
- Q9 - Inadequate sample volume remaining, partial renewal performed
- Q10 - Inadequate sample volume remaining, no renewal performed
- Q11 - Sample out of holding time; refer to QA section of report
- Q12 - Replicate(s) not initiated; excluded from data analysis
- Q13 - Survival counts not recorded due to poor visibility or heavy debris
- Q14 - D.O. percent saturation was checked and was $\leq 110\%$
- Q15 - Did not meet minimum test acceptability criteria. Refer to QA section of report.
- Q16 - Percent minimum significant difference (PMSD) was below the lower bound limit for acceptability. This indicates that statistics may be over-sensitive in detecting a difference from the control due to low variability in the data set. Test results were reviewed and reported in accordance with guidance found in EPA-833-R-00-003, 2000 unless otherwise specified.
- Q17 - Percent minimum significant difference (PMSD) was above the upper bound limit for acceptability. This indicates that statistics may be under-sensitive in detecting a difference from the control due to high variability in the data set. Test results were reviewed and reported in accordance with EPA-833-R-00-003, 2000 guidance unless otherwise specified.
- Q18 - Incorrect or illegible Entry
- Q19 - Miscalculation
- Q20 - PMSD criteria do not apply to the test of significant toxicity (TST) analysis
- Q21 - Other (provide reason in comments section)
- Q22 - Greater than 10% batch mortality observed upon receipt and/or in holding prior to test initiation. Organisms acclimated to test conditions at Nautilus and ultimately deemed fit to use for testing.
- Q23 - Test organisms experienced a temperature shift greater than 3°C within 1 day or were received at a temperature greater than 3°C outside the recommended test temperature range and had minimal time to acclimate prior to test initiation. However, due to age-specific protocol requirements and/or sample holding time constraints, the organisms were used to initiate test(s). Organisms were ultimately deemed fit to use for testing.
- Q24 - Test organisms experienced a salinity shift greater than 3 ppt within 1 day or were received at a salinity greater than 3 ppt outside the recommended test salinity range and had minimal time to acclimate prior to test initiation. However, due to age-specific protocol requirements and/or sample holding time constraints, the organisms were used to initiate test(s). Organisms were ultimately deemed fit to use for testing.

February 12, 2026

Alameda County Health Care Services Agency, Environmental Health Department
AB&I Redevelopment Site, 7825 San Leandro Street, Oakland, California, Shallow Soil Sample
Collection to Assess Soil Conditions at Stormwater Treatment System and Drop Inlets

Attachment D

Data Validation Report



Data Validation Report

Project Name: AB&I

Lab Reference Number: 550889

Project Number: 0172.033.007	Laboratory: Enthalpy Analytical
Validated by: Brittany Abujudeh	Matrix: Soil
Sampling Date: 1/14/2026	Number of Samples: 11
Data Validation Report Date: 1/29/2026	Analytical Report Date: 1/26/2026

The quality control (QC) elements that were reviewed are listed below.

Data Package Completeness	√	Surrogate Compound Recovery	1
Verification of EDD to Hardcopy Data Package	√	Sample Duplicate Analysis	NA
Chain-of-Custody and Sample Preservation	1	Blank Spike/Blank Spike Duplicate Sample Analyses	NA
Holding Times	√	Matrix Spike/Matrix Spike Duplicate Sample Analyses	1
Retention Time Windows	NE	Trip Blank Sample Analysis	NA
Initial Calibration	NE	Equipment Blank Sample Analysis	NA
Initial Calibration Verification	NE	Field Duplicate Sample Analysis	1
Continuing Calibration	NE	Reference Material Analysis	NE
Method Blank Analysis	√	Compound Quantitation	2
Laboratory Control Samples	√		

√ – Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 – Quality control results are discussed below, but no data were qualified.

2 – Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed in this Data Validation Report.

NA – Not applicable

NE – Not evaluated

P – Pending

Overall Assessment

All data, associated with analyses semi volatile organics and metals, as qualified, are acceptable for use.

Data Package Completeness

The data package included the required elements: chain-of-custody, case narrative, sample receipt checklist results, and QC results.

Verification of EDD to Hardcopy Data Package

Sample results and related quality control data were received in both an electronic and hardcopy format. Electronic data were verified against the laboratory report; no errors were found.

Chain-of-Custody

All sample identification (ID) numbers listed on the chain-of-custody record are consistent with the sample ID reported in the EDD and hardcopy data package.

Sample Preservation

Samples were received at a temperature of 2.6 degrees Celsius. Proper preservation includes samples chilled to ≤ 6.0 degrees Celsius.

Water found in sample SB-04-4-20260114 and SB-05-1.5-20260114 (550889-008 and 550889-009, respectively; no water intrusion was suspected.

Holding Times

All samples were analyzed within the holding time.

Retention Time Windows

Not evaluated.

Initial Calibration

Not evaluated.

Initial Calibration Verification

Not evaluated.

Continuing Calibration

Not evaluated.

Method Blank Analysis

No target compounds were detected in the method blank samples.

Laboratory Control Samples

All percent recovery values for the laboratory control samples (LCS) were within acceptable criteria established by the laboratory for the respective testing methods.

Surrogate Compound Recovery

Low surrogate recovery was observed for terphenyl-d14 in SB-02-2-20260114 and qualified with a "*" to indicate recovery is outside QC limits.

All other percent recovery values for surrogate compounds were within acceptable criteria established by the laboratory for the respective testing methods.



Sample Duplicate Analysis

Sample duplicate analysis was not performed for this sample batch.

Blank Spike/Blank Spike Duplicate Sample Analyses

Blank spikes and blank spike duplicates were not performed for this sample batch.

Matrix Spike/Matrix Spike Duplicate Sample Analyses

High recoveries were observed for fluoranthene, pyrene, chrysene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene in the matrix spike and matrix spike duplicates (MS/MSD) of SB-02-2-20260114 (lab # 550889-003); the LCS was within limits. High RPD was observed for fluoranthene and pyrene.

Low recoveries were observed for analytes antimony, barium, lead, and zinc in the MS/MSD of SB-01-2-20260114 (lab # 550889-001); the LCS was within limits, and the associated RPDs were within limits.

All other percent recoveries and relative percent differences (RPDs) for blank spikes and blank spike duplicates were within acceptable criteria established by the laboratory for the respective testing methods.

All percent recoveries for the post digest spike were within acceptable criteria established by the laboratory for the respective testing methods.

Trip Blank Sample Analysis

A trip blank was not collected for this sample batch.

Equipment Blank Sample Analysis

An equipment blank sample was not collected for this sample batch.

Field Duplicate Analyses

Samples SB-DUP-2-20260114 and SB-DUP-4-20260114 were collected as field duplicate samples of SB-02-2-20260114 and SB-02-4-20260114, respectively. All calculated RPDs were within the 50% acceptance limit, except the following:

- All RPDs for PAH analysis were above the 50% limit in samples SB-02-2-20260114 and SB-DUP-2-20260114.
- Acenaphthylene, anthracene, pyrene, and antimony were detected in one sample and not the other in samples SB-02-2-20260114 and SB-DUP-2-20260114; therefore, no RPD could be calculated.
- Benzo(g,h,i)perylene, chrysene, silver, and thallium were detected in one sample and not the other in samples SB-02-4-20260114 and SB-DUP-4-20260114; therefore, no RPD could be calculated.

Reference Material Analysis

No reference material analysis was performed.

Compound Quantitation

The laboratory applied the following flag:

J Estimated Value

Results for the following samples were J-flagged:

Sample Name	Analytes
SB-01-2-20260114	Beryllium, cadmium, mercury, molybdenum, silver, thallium, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, chrysene, Fluoranthene, Phenanthrene
SB-01-4-20260114	Beryllium, mercury, selenium, thallium, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, chrysene, Fluoranthene, Indeno(1,2,3-c,d)pyrene, Phenanthrene, pyrene
SB-02-2-20260114	Beryllium, cadmium, selenium, silver, thallium, 2-Methylnaphthalene, Benz(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Fluoranthene
SB-02-4-20260114	Benzo(b)fluoranthene, Beryllium, Cadmium, Mercury, Molybdenum, Thallium
SB-03-2-20260114	Naphthalene, Acenaphthylene, Fluorene, Anthracene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Beryllium, Cadmium, Mercury, Molybdenum, Thallium
SB-03-4-20260114	Acenaphthylene, Phenanthrene, Anthracene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Cadmium, Mercury, Molybdenum, Selenium, Thallium
SB-04-2-20260114	Acenaphthylene, Antimony, Selenium, Silver, Thallium
SB-04-4-20260114	1-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Anthracene, Selenium, Silver, Thallium
SB-05-1.5-20260114	2-Methylnaphthalene, Naphthalene, Dibenz(a,h)anthracene, Antimony, Beryllium, Mercury, Selenium, Silver, Thallium
SB-DUP-2-20260114	2-Methylnaphthalene, Acenaphthylene, Phenanthrene, Anthracene, Fluoranthene, Antimony, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium
SB-DUP-4-20260114	Chrysene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Beryllium, Cadmium, Mercury, Molybdenum, Silver

Sample Index

Sample Name	Lab ID	Matrix	Date Collected
SB-01-2-20260114	550889-001	Soil	1/14/2026
SB-01-4-20260114	550889-002	Soil	1/14/2026
SB-02-2-20260114	550889-003	Soil	1/14/2026
SB-02-4-20260114	550889-004	Soil	1/14/2026
SB-03-2-20260114	550889-005	Soil	1/14/2026



Sample Name	Lab ID	Matrix	Date Collected
SB-03-4-20260114	550889-006	Soil	1/14/2026
SB-04-2-20260114	550889-007	Soil	1/14/2026
SB-04-4-20260114	550889-008	Soil	1/14/2026
SB-05-1.5-20260114	550889-009	Soil	1/14/2026
SB-DUP-2-20260114	550889-010	Soil	1/14/2026
SB-DUP-4-20260114	550889-011	Soil	1/14/2026

End of Report