UC San Diego

La Jolla Medical Center Outpatient Pavilion Project
UC San Diego Project Number/Job Number: 5671

Addendum No. 1 to the Subsequent Environmental Impact Report for the Update to the 2018 UC San Diego La Jolla Campus Long Range Development Plan

University of California San Diego - La Jolla Campus
SCH No. 2016111019

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TABLE OF CONTENTS

Section **Page**

1 INTRODUCTION 1-1
1.1 Project Summary 1-1
1.2 Environmental Procedures 1-2
1.3 CEQA Determination 1-3

2 PROJECT DESCRIPTION 2-1
2.1 Regional Location and Setting 2-1
2.2 Project Site and Setting 2-1
2.3 Project Background 2-2
2.4 Project Objectives 2-3
2.5 Project Features 2-4
2.5.1 Building Program 2-4
2.5.2 Building Design 2-4
2.5.3 Sustainability Features 2-5
2.5.4 Utility and Service System Improvements 2-7
2.5.5 Landscape/Hardscape Improvements 2-8
2.5.6 Project Construction 2-8
2.6 Project Approval/Schedule 2-9

3 CONSISTENCY WITH LRDP 3-1
3.1 LRDP Objectives 3-1
3.2 LRDP Campus Population 3-2
3.3 LRDP Land Use 3-3
3.4 LRDP Development Space 3-3

4 CONSISTENCY WITH LRDP EIR AND SEIR 4-1
4.1 Evaluation of Project Environmental Impacts 4-1
4.1.1 Aesthetics 4-2
4.1.2 Air Quality 4-4
4.1.3 Biological Resources 4-7
4.1.4 Cultural and Tribal Cultural Resources 4-10
4.1.5 Energy 4-13
4.1.6 Geology and Soils 4-14
4.1.7 Greenhouse Gas Emissions 4-18
4.1.8 Hazards and Hazardous Materials 4-20
4.1.9 Hydrology and Water Quality 4-24
4.1.10 Land Use and Planning 4-27
4.1.11 Noise 4-29
4.1.12 Population and Housing 4-32
4.1.13 Public Services 4-33
4.1.14 Recreation 4-35
4.1.15 Transportation and Circulation 4-36
4.1.16 Utilities and Service Systems 4-38
4.1.17 Wildfire 4-43

5 APPLICABLE MITIGATION MEASURES 5-1

6 REFERENCES 6-1

List of Figures **Follows Page**

Figure 1, Regional Location 2-1
Figure 2, UC San Diego Campus 2-1
Figure 3, Project Vicinity (Aerial Photograph) 2-1
Figure 4, Site Plan 2-4
Figure 5a, Project Renderings (West View) 2-4
Figure 5b, Project Renderings (Southwest View) 2-4
Figure 6, Landscape Plan 2-8

List of Tables **Page**

Table 3-1 Total Campus Population Growth Projections 3-2

List of Appendices

Appendix A Geotechnical Evaluation
Appendix B Drainage Study
Appendix C Fire & Life Safety Code Report

1 INTRODUCTION

1.1 PROJECT SUMMARY

This Addendum evaluates the following Project's consistency with the 2018 Long Range Development Plan (LRDP), as updated by Amendment # 1, for the UC San Diego La Jolla Campus and the certified Program Environmental Impact Report (EIR) and Subsequent EIR (SEIR) that analyzed the environmental impacts of implementing the LRDP (SCH No. 2016111019).

Project title:	La Jolla Medical Center Outpatient Pavilion Project
Project location:	University of California, San Diego
Lead agency's name and address:	The Regents of the University of California 1111 Franklin Street Oakland, CA 94607
Lead agency contact:	Lauren Kahal Lievers, Principal Environmental Planner UC San Diego Campus Planning Office
Project sponsor's name and address:	UC San Diego 9500 Gilman Drive, MC 0074 La Jolla, California 92093-0074
Physical Location of administrative record:	UC San Diego Campus Planning Office 10280 North Torrey Pines Road, Suite 460 La Jolla, CA 92093
Previously Certified LRDP Program EIR and Subsequent EIR:	The LRDP is a comprehensive land use plan that guides physical development on the La Jolla campus to accommodate projected population growth and program initiatives. A Program EIR evaluating the potential impacts of LRDP implementation was certified by the UC Regents in November 2018. In July 2025, the UC Regents adopted Amendment #1 to the LRDP (also referred to as "the Update to the LRDP") and certified the associated Subsequent EIR. The LRDP, Amendment #1, Program EIR and SEIR are available at the above physical administrative record location and online at https://plandesignbuild.ucsd.edu/planning/lrdp/la-jolla.html

1.2 ENVIRONMENTAL PROCEDURES

The 2018 La Jolla Campus Long Range Development Plan (LRDP) is a broad, comprehensive, and adaptable policy framework intended to achieve UC San Diego's program goals and guide decisions concerning land use and capital project development. The LRDP Environmental Impact Report (EIR) was prepared in accordance with §15168 of the California Environmental Quality Act (CEQA) Guidelines and Public Resources Code §21094 and §21080.09 and analyzed the environmental impacts of the LRDP (UC San Diego 2018b). In 2025, Amendment #1 to the LRDP (also referred to as "the Update to the LRDP") was approved to expand the planning horizon year from 2035 to 2040, update the campus population and development projections, and slightly adjust the LRDP's Land Use Plan. To update the analysis presented in the EIR, a Subsequent EIR (SEIR) was prepared in accordance with §15162 of CEQA (UC San Diego 2025b). Together, the EIR and SEIR analyze the full implementation of the uses and physical development that could occur under the LRDP, as updated by Amendment #1, and identify measures to mitigate the significant adverse and cumulative impacts. Throughout this document, the term "LRDP" refers to the LRDP as amended in July 2025 by the Update to the LRDP (Amendment #1).

This document evaluates whether the La Jolla Medical Center Outpatient Pavilion Project (the "Project") is within the scope of the EIR and SEIR and whether it would trigger subsequent or supplemental environmental review under CEQA. This includes but is not limited to determining whether the Project would result in new or substantially more severe environmental impacts in comparison to those disclosed in the EIR and SEIR. This document will also serve as an Addendum to the LRDP SEIR, as described in the CEQA determination below.

This Addendum documents whether or not the site-specific development proposed by the Project is within the scope of the EIR and SEIR pursuant to §15168(c) of the State CEQA Guidelines, which states, in pertinent part, "later activities in the program must be examined in the light of the program EIR to determine whether an additional environmental document must be prepared." Pursuant to §15168(c)(4), an agency should use "…a written checklist or similar device to document the evaluation of the site and the activity to determine whether the environmental effects of the operation were within the scope of the program EIR." This Addendum also documents that none of the conditions described in CEQA Guidelines Section 15162 calling for the preparation of a subsequent EIR have occurred and an addendum to the EIR and SEIR may be prepared (per CEQA Guidelines Section 15164).

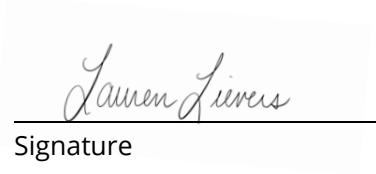
1.3 CEQA DETERMINATION

UC San Diego previously prepared the LRDP EIR and SEIR, and on the basis of this evaluation and pursuant to the State CEQA Guidelines:

☒ The University finds that the Project WOULD NOT result in any new significant effects on the environment or a substantial increase in the severity of previously identified significant effects addressed by the LRDP EIR and SEIR, no substantial changes have occurred with respect to the circumstances under which the Project will be undertaken which will require major revisions of the previous EIRs due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects, and no new information of substantial importance to the Project has been identified as defined by CEQA Guidelines Section 15162(a)(3). However, minor technical changes or additions are necessary, and in accordance with §15164 of the State CEQA Guidelines, this ADDENDUM has been prepared.

☐ The University finds that although the Project WOULD include the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects, there will not be new or substantially increased significant effects in this case because new project-specific mitigation measures have been identified that would reduce the effects to a less than significant level. In accordance with §15162 of the State CEQA Guidelines, a TIERED MITIGATED NEGATIVE DECLARATION is required.

☐ The University finds that the Project MAY have a new significant effect on the environment that was not adequately addressed in the previous EIR or a significant effect previously examined will be substantially more severe than shown in the previous EIR, and there may not be feasible mitigation which would reduce the new significant effect to a less than significant level. In accordance with §15162 of the State CEQA Guidelines, a TIERED ENVIRONMENTAL IMPACT REPORT is required.



Signature

August 14, 2026
Date

2 PROJECT DESCRIPTION

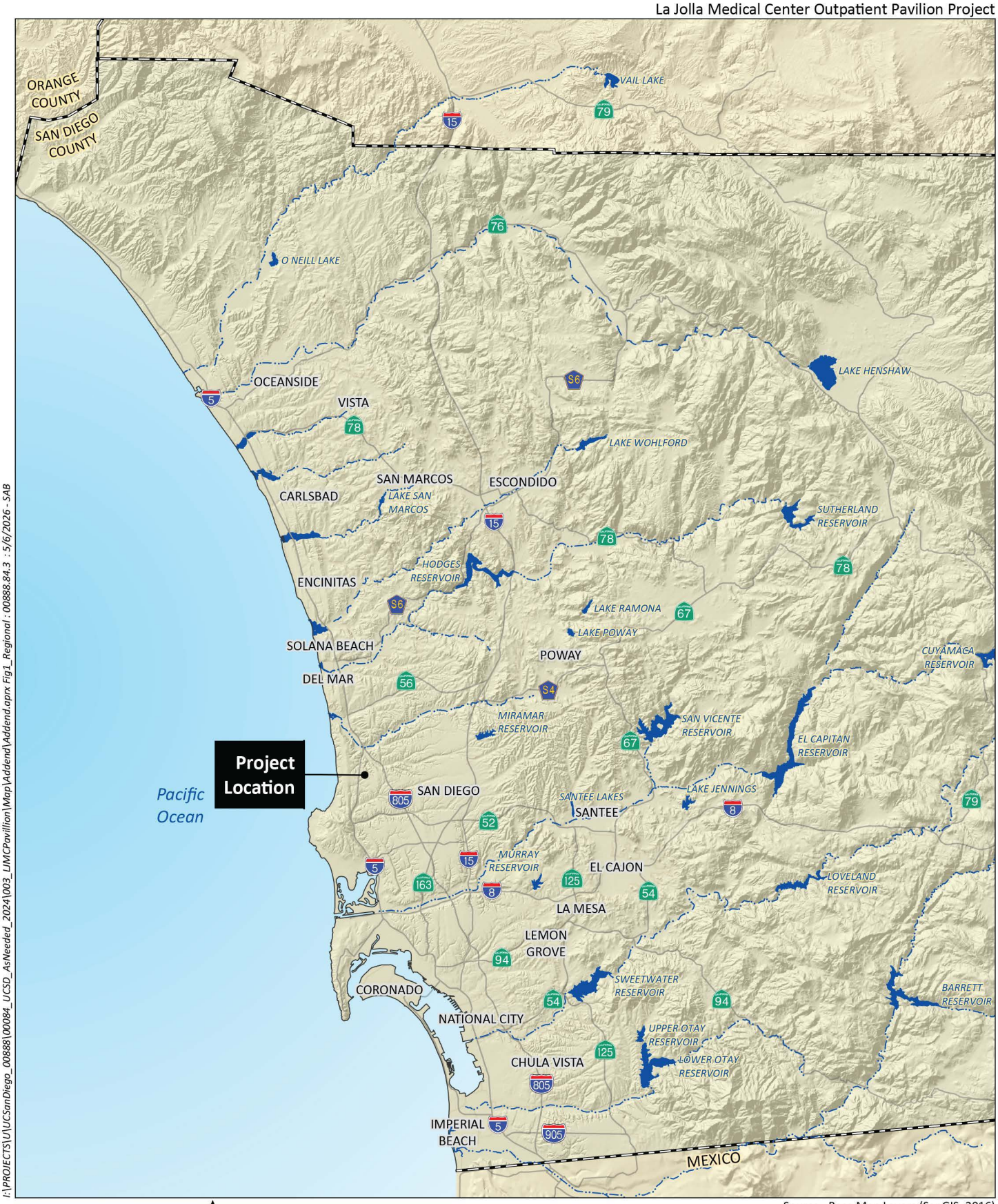
2.1 REGIONAL LOCATION AND SETTING

The UC San Diego La Jolla campus is located adjacent to the communities of La Jolla and University City, within the northwest portion of the City of San Diego (see Figure 2-1 of the SEIR). UC San Diego's campus is generally composed of three distinct, but contiguous, geographical areas: the Scripps Institution of Oceanography (SIO) portion of the campus (178.7 acres), the western area of the campus (West Campus, 635.7 acres), and the eastern area of the campus (East Campus, 265.7 acres). The East and West Campuses are bisected by Interstate 5 [I-5]. The La Jolla del Sol housing complex (12 acres) is located southeast of these larger geographical areas and not contiguous to the campus. Refer to Section 2.2 of the LRDP EIR for additional description on each of the campus areas. Also included in the LRDP are the beach properties, consisting of the Audrey Geisel House and an adjacent coastal canyon and beachfront parcel (25.8 acres), and the Torrey Pines Gliderport, Torrey Pines Center and Torrey Pines Court (41 acres). The LRDP addresses campus properties that encompass a total of 1,159 acres in La Jolla, California (see Figure 2-2 of the SEIR).

2.2 PROJECT SITE AND SETTING

The proposed Project would be located on UC San Diego's La Jolla East Campus, which is situated between Voigt Drive and Genesee Avenue to the north, privately owned condominiums along La Jolla Village Drive on the south, I-5 on the west, and Regents Road on the east (see Figure 1, *Project Location*, and Figure 2, *UC San Diego Campus*). The East Campus is where many of UC San Diego's public-oriented programs are located, including UC San Diego Health La Jolla campus and The Preuss School. This portion of campus also contains the Science Research Park (approximately 23-acre innovation district for corporate, non-profit foundation, and academic partnerships), Health Sciences research facilities, parking facilities, utility plants, graduate student housing, and recreation and sport uses. In total, the East Campus contains approximately 3 million gross square feet (GSF) of building space on approximately 266 acres of land (UC San Diego 2025).

The Project site, inclusive of all construction activity areas, materials staging/contractor parking areas, and the development site, is an approximately 5.2-acre site within the Health Sciences East neighborhood of East Campus (see Figure 2-6 of the 2018 LRDP EIR). The site generally slopes up diagonally from the southwest corner to the northeast corner. The primary existing use of the Project site is a surface parking lot, with surrounding landscaping/circulation elements and a portion of the access road serving the East Campus Utility Plant (see Figure 3, *Project Vicinity*). Temporary construction trailers are located



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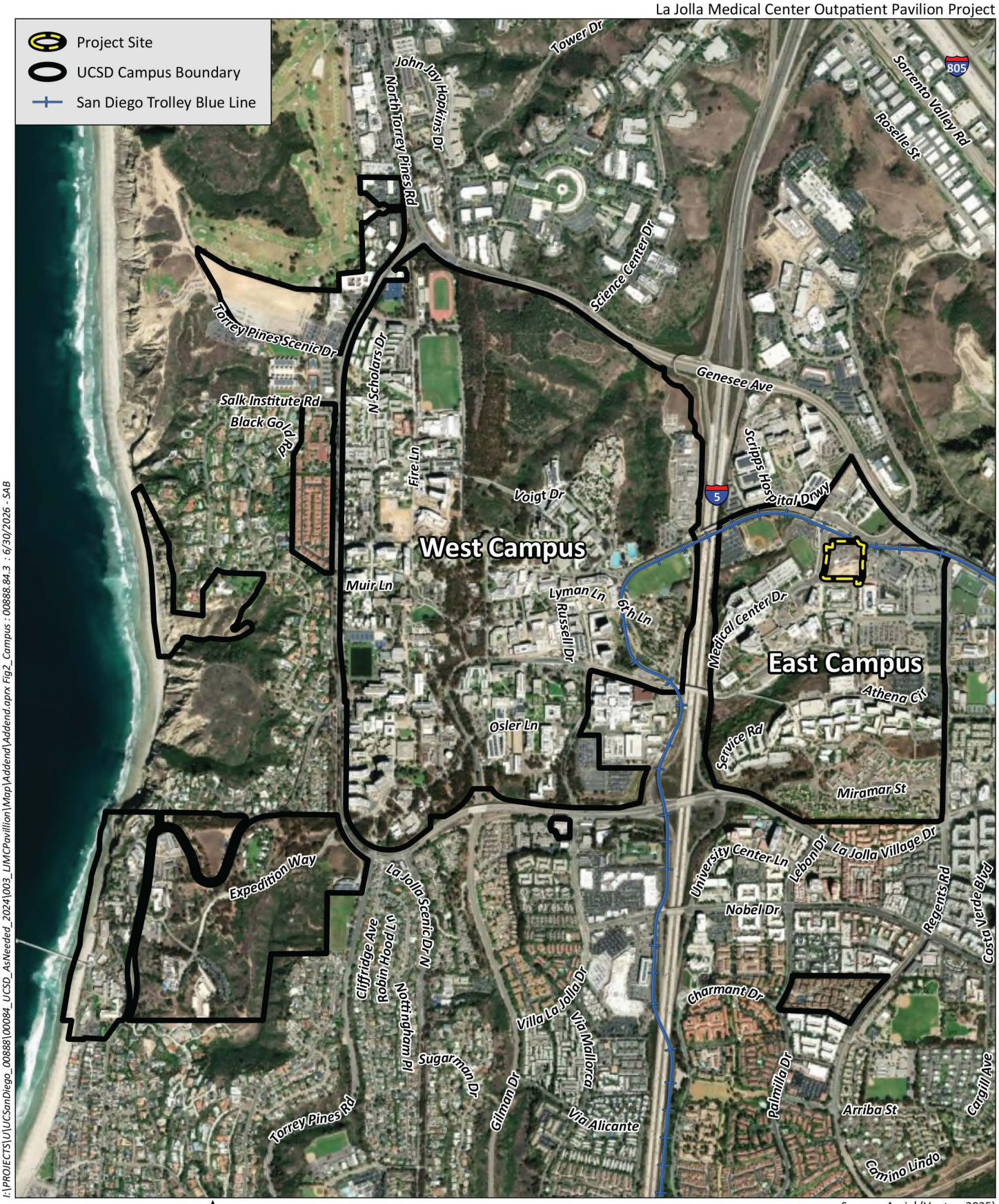
0 8 Miles

Source: Base Map Layers (SanGIS, 2016)

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Regional Location

Figure 1



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0 1,700 Feet

Source: Aerial (Vantor, 2025)

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UC San Diego Campus

Figure 2



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0 200 Feet

Source: Aerial (Vantor, 2025)

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Project Vicinity (Aerial Photograph)

Figure 3

within the Project site, specifically along the southern edge of parking lot P707 and north of the previous parking lot P760, which is currently undeveloped as it has been utilized for construction staging for the East Campus Loop Road project. The Project site is bound by Campus Point Drive to the north and west; Medical Center Drive East to the south; and Eastpoint Lane and the East Campus Utility Plant to the east. The San Diego Trolley Blue Line also borders the site on the north as an elevated railway, with the UC San Diego Health La Jolla station accessible from the area adjacent to the northwest corner of the site.

The land use designation for the Project site in the 2018 LRDP is Academic Healthcare (see Figure 1 in Amendment#1 to the 2018 LRDP) with surrounding land use designations including Community Oriented (The Preuss School) and General Services (electrical substations) to the north, Academic Healthcare to the south (Shiley Eye Institute, Viterbi Family Vision Research Center) and west, and General Services (East Campus Utility Plant) and Academic Healthcare to the east. While the areas west and east of the site beyond Campus Point Drive and the East Campus Utility Plant, respectively, are planned as Academic Healthcare land uses (see Figure 1 in Amendment#1 to the 2018 LRDP), the existing use of these areas is parking and, on the west, the East Campus Recreation Area.

2.3 PROJECT BACKGROUND

UC San Diego Health's mission is to deliver outstanding patient care through commitment to the community, groundbreaking research, and inspired teaching. UC San Diego Health is San Diego's only academic medical center and has consistently ranked the number one hospital system in San Diego as well as among the top hospitals across the United States. As an academic medical center, many UC San Diego Health physicians are also faculty members at the UC San Diego School of Medicine who conduct original, peer-reviewed research and teach the next generation of doctors, thereby leading advances in medicine.

UC San Diego Health operates three medical campuses—La Jolla Medical Center, Hillcrest Medical Center, and East Campus Medical Center— all of which integrate clinical care, research, and teaching, as well as multiple additional healthcare locations throughout the county. The UC San Diego Health La Jolla campus has three inpatient facilities (Thornton Pavilion, Sulpizio Cardiovascular Center, and Jacobs Medical Center) that are complemented by outpatient care sites on the campus. Existing outpatient facilities at the UC San Diego Health La Jolla campus include the Koman Outpatient Pavilion, Perlman Medical Offices, and specialty centers at Moores Cancer Center and Shiley Eye Institute.

The nationally recognized care and innovative treatments provided by UC San Diego Health attracts patients nationally and internationally. As such, patient demand for both inpatient and outpatient services on the La Jolla campus has been increasing and many clinical service areas are at or near their capacity. Wait times for appointments are higher than

targeted benchmarks for existing patients; therefore, accommodating new patient volume is challenging and limits potential growth for UC San Diego Health. In particular, cancer services are operating at over 100 percent utilization in infusion therapy and radiation therapy, despite providing extended hours and days of operation. Imaging services in Koman Outpatient Pavilion are also strained, with some outpatient modalities running 24 hours per day to accommodate demand.

The proposed LJMC Outpatient Pavilion would relieve existing strains on and overutilization of available services by increasing the capacity of UC San Diego Health to provide outpatient services for select specialties (primarily orthopedics and neurosurgery). The detailed space program for this Project was determined based on meetings with key user groups that incorporated interactive exercises to assist the design team in understanding preferred operational flows and adjacencies. Existing UC San Diego projects as well as similar outpatient facilities were also referenced during the Project design process. The proposed Project incorporates input from these user groups and other facilities to provide a design that enhances patient experiences and provides operational efficiencies for staff.

2.4 PROJECT OBJECTIVES

UC San Diego has identified the following objectives for the proposed Project:

- Increase outpatient services capacity within the UC San Diego Health La Jolla campus to alleviate existing growth and patient care constraints on healthcare services.
- Locate comprehensive outpatient services into a single facility that provides streamlined patient care.
- Facilitate UC San Diego Health's continued leadership in musculoskeletal, spine, radiology, neurosciences, and outpatient surgery.
- Site new outpatient services in close proximity to related services and provide accessible routes between these buildings as well as associated parking and service areas.

These objectives are consistent with the overall objectives of the 2018 LRDP (see Section 2.3 of the SEIR).

2.5 PROJECT FEATURES

2.5.1 Building Program

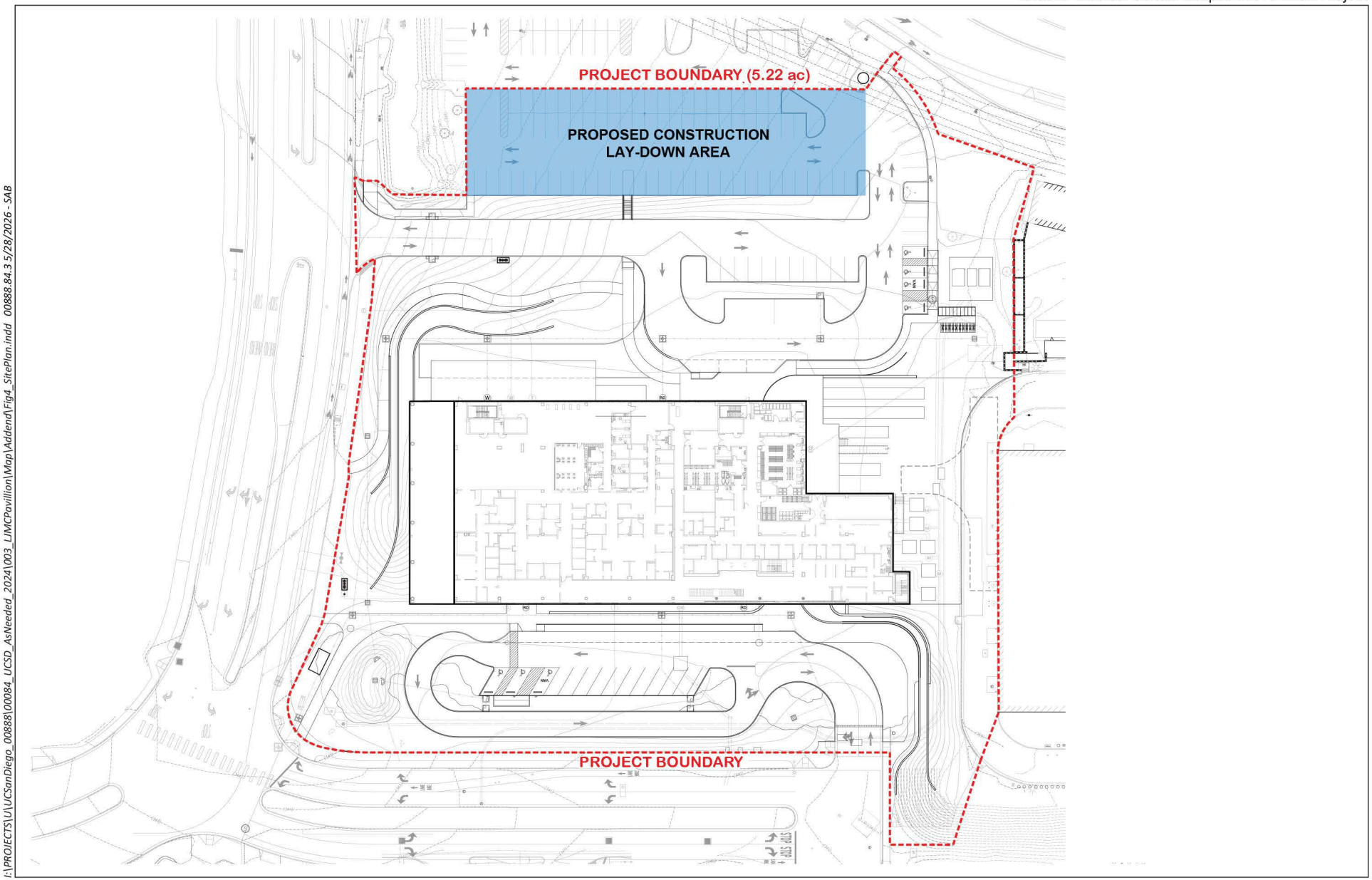
The Project would construct a single medical office building providing a variety of outpatient medical services. The proposed building would house urgent care services, orthopedics and neurology examination rooms, operating rooms, and rehabilitation services, as well as materials storage and other support spaces. The proposed spaces would continue musculoskeletal, spine, radiology, neurosciences, and outpatient surgery services currently provided by UC San Diego Health but increase the capacity to provide outpatient service to the increasing number of patients served by UC San Diego Health.

The proposed Project location near other UC San Diego Health facilities would provide additional capacity for outpatient services within the Health Sciences East neighborhood while maintaining the proximity of related health services for patients. The relocation of certain outpatient services from the Koman Outpatient Pavilion to the proposed Project building would also allow future renovation and conversion of those existing spaces to additional oncology infusion treatment bays/rooms, which are over capacity for current patient demand.

2.5.2 Building Design

The approximately 180,000 gross-square-foot (GSF) building would be a generally rectangular structure located on the southern portion of the Project site, south of the majority of existing parking stalls in parking lot P707. Within the building space would be split between urgent care areas, examination rooms, operating rooms, recovery rooms, rehabilitation services, imaging services, and other supportive storage spaces. The building would be four stories and reach approximately 82 feet in height. Given the topography of the site, the primary southern entrance would align with the first level of the building while the building's northern entrance and eastern loading dock would align with the building's second level. The overall site plan is provided as Figure 4, *Site Plan*.

The Project design would be generally consistent with the neutral and cool color palette used on existing UC San Diego Health buildings. The proposed building would include metal panels and glazed walls. Exposed concrete would be visible along the building podium as well as along retaining walls and limited service areas. To protect bird safety, less than 35 percent of the surface area of the building's lower three levels would be covered in untreated glass and the building edges would be clearly defined with architectural features. Remaining glass area on the lower three levels of the building would be treated with frit glazing or shielded to be visible to birds. The Project would also comply with UC San Diego's Lighting Policy, which requires shielded fixtures and downward-facing lighting. Figure 5, *Project Renderings*, provides an overview of the anticipated building design.



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Source: UCSD 2026

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Site Plan

Figure 4

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Source: UCSD 2026

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Project Renderings (West View)

Figure 5a

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Source: UCSD 2026

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Project Renderings (Southwest View)

Figure 5b

Surface parking areas with patient loading areas would be provided both north and south of the proposed building. The Project would remove access to 223 existing parking stalls from the northern parking area (parking lot P707) during construction. The existing parking areas would be partially reconfigured upon completion to accommodate the proposed building. Access to the northern parking area) would continue to be available from Campus Point Drive on the north and west, though minor curb adjustments would be made to the western entrance after Project construction. The southern portion of the project site (including former parking lot P760) would be replaced by a new lot. The southern lot would be accessed from Medical Center Drive via a new driveway proposed at the southeast corner of the site. Following construction, the northern parking area would contain 157 spaces, and the southern parking area would contain 16 spaces, resulting in a net reduction of 50 spaces compared to the existing parking area. Patient parking for the Project beyond the preserved surface parking and loading spaces would be accommodated within the existing Athena Parking Structure southeast of the Project site.

Pedestrian access to the site would continue to be available from the sidewalks along Campus Point Drive and Medical Center Drive. A new accessible pedestrian connection from the Athena Parking Structure to the southeast would be constructed as part of the Project.

As previously noted, a loading dock on the eastern side of the proposed building would align with the building's second level. Access to this loading dock would be provided from the existing entrance to parking lot P703 along Eastpoint Lane through the parking area and the access road that serves the East Campus Utility Plant. This access route would avoid potential conflicts with passenger cars and patient access in the parking areas north and south of the proposed building.

2.5.3 Sustainability Features

The UC Sustainable Practices Policy (April 2024) covers thirteen areas of sustainable practices: green building, clean energy, climate action, sustainable transportation, sustainable operations, zero waste, procurement, food services, water systems, health care, performance assessment, health and well-being, and related topics. The UC Sustainable Practices Policy establishes guidelines and includes climate change goals for the campus.

The Project's design emphasizes sustainability and compliance with the UC Sustainable Practices Policy. In accordance with this policy, the Project incorporates a range of design and operational features that promote energy and water efficiency, reduce greenhouse gas (GHG) emissions, and support alternative transportation options. Specific design elements consistent with the UC Sustainable Practices Policy are outlined below. Other areas of the UC Sustainable Practices Policy are addressed at the campus-wide level and do not apply to individual building projects. For example, the provision of clean energy for all campus

facilities and the implementation of food service or sustainability assessment programs are campus-wide efforts.

- **Green Building/Clean Energy.** The Project would have an all-electric design, incorporate sustainable and high-performance materials, and meet the requirements for LEED Gold certification. The building is designed to outperform Title 24 energy efficiency requirements by at least 20 percent, and would include high-performance glazing, optimized window-to-wall ratios, exterior shading, and improved envelope for thermal performance. The project would also utilize high-efficiency HVAC systems, efficient LED lighting, and building-level metering. In addition, the rooftop plant consists of air source heat pump water heaters paired with hot water storage tanks to provide efficient, low carbon water heating. To ensure temperature maintenance and operational requirements within the SPD, electric heat tracing will be installed on the associated hot water distribution piping.

- **Sustainable Transportation.** The Project would be located adjacent to the UC San Diego Health La Jolla station (less than 5-minute walk) serving the San Diego Trolley Blue Line. UC San Diego Triton Transit shuttle and MTS bus stops are also located near the Project site, including a Triton Transit shuttle stop outside the Athena Parking Garage on Medical Center Drive and MTS bus stop along Genessee Avenue. An EV charging station are available within the existing parking lot north of the proposed building and the Project would provide bicycle parking near the proposed building entrances. Staff occupying the building would also benefit from UC San Diego's Transportation Demand Management program which includes bike/pedestrian and carpool/vanpool incentive programs, rideshare partnerships, and discounted transit access opportunities.

- **Zero Waste.** The Project would implement a three-stream bin system in both public and back-of-house areas of the proposed building to support efficient solid waste diversion and hauling. While not counted towards annual campus solid waste, the Project would also implement a Construction Waste Management Plan with a target to divert 90 percent of construction and demolition waste from landfill.

- **Sustainable Procurement/Sustainability at UC Health.** Construction materials and finishes, such as furniture, flooring, paints, and adhesives, would comply with UC's sustainable purchasing requirements and have appropriate sustainability attributes (e.g., recycled content, low-VOC, third-party certified). While not all materials are identified at this stage of Project planning, the applicable procurement policies would also be incorporated into Project specifications and associated contractor agreements.

- **Sustainable Water Systems.** The Project would install low-flow water fixtures and install drought-tolerant landscaping to support continued campus-wide reduction goals.

2.5.4 Utility and Service System Improvements

The Project would construct connections to existing utility infrastructure in the vicinity of the Project but would not require off-site infrastructure replacement or capacity increases. Existing domestic water, fire water, and sewer mains occur in the eastern half of Campus Point Drive and the Project would construct laterals to connect the building to these utilities. Separate chilled water connections would be constructed from the southeastern portion of the building to the existing pipes within Medical Center Drive and adjacent to the East Campus Utility Plant. The Project would also connect to existing electrical conduits in Medical Center Drive and in the southwest corner of the Project site that distribute clean electricity purchased through the UC Direct Access Program. These conduits would be connected to either five (5) exterior pad mounted transformers or three (3) indoor air cooled dry-type transformers with associated equipment located either in a yard northeast of the proposed building or as an extension of the current main electrical room. An oxygen tank would be located adjacent to the transformer yard and piping would be constructed from the tank to the proposed building. Lastly, a telecommunications connection to the building would be constructed from the existing line at the northeastern edge of parking lot P707.

A fire system, fire alarms, and fire access plan will be prepared in accordance with applicable regulations as well as state and nationally recognized standards. The UC San Diego Campus Fire Marshal and its fire inspectors review all project design plans to ensure adequate continued emergency access at all times during construction and operation of projects and compliance with the California Building Code (CBC) Title 14 and 24 building standards and campus fire, life and safety protocol. Fire protection systems are regularly inspected, tested, and maintained.

The UC San Diego campus is regulated under the Phase II Small MS4 NPDES General permit, and the UC San Diego campus is also regulated under UC San Diego's Storm Water Management Program (SWMP). Stormwater management measures to be incorporated in the project would be coordinated with UC San Diego Environmental Health & Safety (EH&S) and Capital Program Management (CPM). Storm drains would be installed throughout the site to capture and convey stormwater from impervious surfaces. Pollutant removal treatment would be provided by a combination of biofiltration basins and a modular wetland unit in the southwest corner of the Project site. The northern portion of the Project site (parking lot P707) drains to the north and would continue to be served by the existing biofiltration basin in the northwest corner of the site.

2.5.5 Landscape/Hardscape Improvements

The Project involves the demolition of existing landscape and hardscape and the addition of new landscape and hardscape surrounding the proposed building and circulation elements. Figure 6, *Landscape Plan*, provides an overview of these landscape and hardscape improvements.

Overall, the landscape area on the site is anticipated to be slightly reduced as approximately 52,420 SF of landscape area would be demolished and 48,810 SF of landscape area would be added to the site. Landscaping would generally be provided along the boundaries of the site and within parking areas. Approximately 162,050 SF of paved area would be demolished and new paving would total approximately 122,918 SF. Such hardscape would include connections from the building access points to existing sidewalks and parking/vehicular circulation areas.

2.5.6 Project Construction

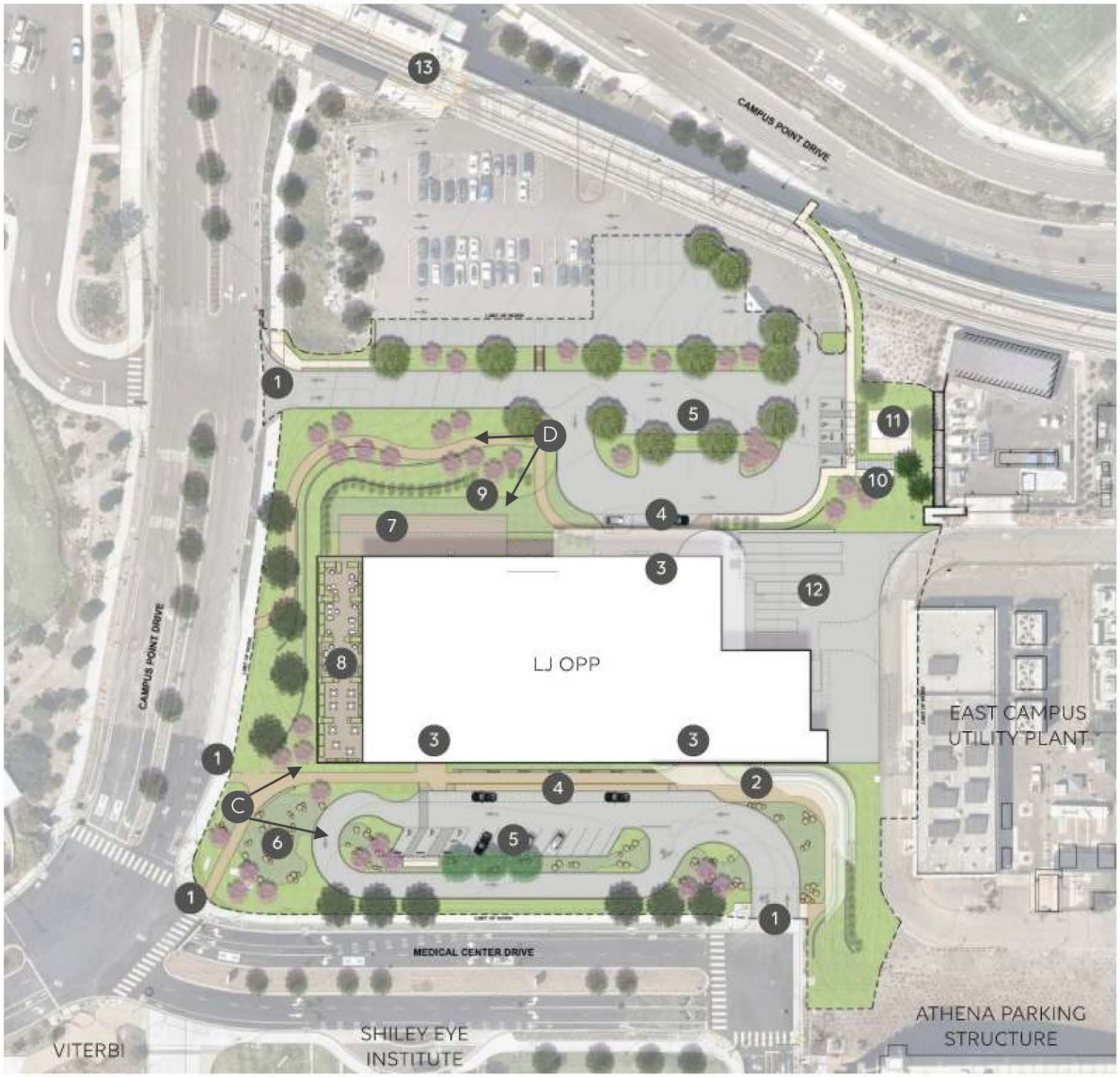
Construction of the Project would take place in phases, generally including the following: demolition, grading and installation of site utilities, building foundation installation, physical building construction, application of exterior finishes, installation of landscaping and hardscaping. Construction activities are anticipated to take up to 32 months, beginning in January 2027 and concluding in August 2029. Construction activities would typically occur Monday through Saturday, between the hours of 7:00 a.m. and 7:00 p.m. Limited nighttime construction may occur to eliminate daytime conflicts or other necessary reasons, with approval from the appropriate campus stakeholders.

Staging and Access

Staging would occur within existing parking areas that occupy the Project site, generally where future parking areas north and south of the proposed building would occur. Construction trailers would be located at the eastern side of parking lot P707 and to the west of the existing mechanical yard.

Access to the construction area would be provided via four gates, two of which would use the existing driveways along Campus Point Drive that provide access to parking lot P707 from the north and west. The other two access points would be constructed at the southeastern corner of the Project site, providing access from Medical Center Drive East, and at the eastern edge of the Project site, providing access from the East Campus Utility Plan access road. A construction management plan and traffic control plan would be developed and implemented during construction to ensure ingress and egress from the Project site would not interfere with traffic flows and emergency access for areas surrounding the Project site.

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LEGEND

1. Site Entrance
2. Entry Plaza
3. Building Entrance
4. Dropoff
5. Patient Parking
6. Stormwater Treatment Basin
7. Rehabilitation Yard
8. Cafe Terrace
9. Fire Lane
10. Bike Parking
11. Utility Yard
12. Service / Loading Dock
13. Existing Trolley Stop

0' 60' 120' 240'

Source: UCSD 2026

HELIX Environmental Planning

Landscape Plan

Figure 6

Demolition and Grading

The proposed Project has been designed with consideration for the slope and existing parking use of the site, including locating entrances to the building on separate levels. Demolition required for the Project would include the removal of existing landscape, hardscape, and parking areas. The existing construction trailers staged within the Project site would be also removed.

Grading for the Project would require cut of approximately 14,930 cubic yards of material and fill of approximately 17,240 cubic yards of material, resulting in the net import of 2,310 cubic yards of material during grading. Soils imported to the Project site via haul trucks would be screened and required to adhere to conditions for site fill material detailed in the Project's geotechnical evaluation. All grading activities would comply with the recommendations of the Project's geotechnical evaluation, including recommendations for temporary excavations, foundations, and slopes.

Storm Water Management

A Storm Water Pollution Prevention Plan (SWPPP) containing appropriate construction site erosion and sedimentation control best management practices (BMPs) would be prepared and implemented at the beginning of the project construction phase and adapted regularly during construction to reflect current conditions in the field and the weather. The SWPPP would outline BMPs to be actively implemented during construction of the proposed project, including (but not limited to) good housekeeping; trash management; construction material and waste management; stockpile management; rinse or wash water management; spill prevention and response; vehicle and equipment storage and maintenance; non-storm water discharge management; tracking controls; run-on and runoff controls; erosion controls such as use of wattles, sediment controls; inlet protection; stabilization of construction entrances; coverage of materials storage areas; inspections; and use of concrete washout areas. Perimeter controls to prevent storm water pollution from exiting the construction site would be installed along the site's perimeter. The contractor would be responsible for implementing the project's approved erosion control plan, as well as cleanup of all BMP breaches (as applicable).

2.6 PROJECT APPROVAL/SCHEDULE

As a public agency principally responsible for approving and carrying out the Project, the University of California (UC) is considered the Lead Agency under CEQA. Due to its constitutional autonomy, the UC is not subject to local land use regulations. The Project Addendum will be reviewed by The Regents or their designee, who may approve the Project at their discretion, provided they determine the approval complies with CEQA. If approved, the Project is anticipated to be constructed and occupied by fall 2029. No outside agency authorizations are required for the project.

3 CONSISTENCY WITH LRDP

Sections 3.1 through 3.4 document the Project's consistency with the objectives, population projections, land use designations, and development projections contained in the LRDP. However, an inconsistency alone does not mean that the Project would result in new or substantially more severe environmental impacts. Section 4 provides a detailed examination of environmental topics with the potential for significant impacts addressed in the LRDP EIR and SEIR and documents whether or not the Project is consistent with and within the scope of the environmental impact analysis of the LRDP EIR and SEIR.

3.1 LRDP OBJECTIVES

Key objectives of the LRDP, as outlined in the plan, include:

1) Accommodate projected growth and address life-safety and deferred maintenance;
2) Maintain the undergraduate college system;
3) Locate buildings in accordance with the established character, scale and design;
4) Co-locate and strengthen campus programs;
5) Activate and enliven the campus through mixed-use and transit-oriented development;
6) Redevelop the University Center into a town center;
7) House approximately 65 percent of eligible students;
8) Provide faculty/staff affordable housing options;
9) Expand and enhance facilities for UC Health;
10) Expand multi-modal connections and trip reduction programs;
11) Implement sustainable development practices; and
12) Be responsible stewards for the campus open space systems.

The Project would support the following LRDP objectives:

Objective 1: *Accommodate Projected Growth*. The Project would provide 180,000 GSF of space for an outpatient pavilion to expand non-academic programs in support of the UC mission and its commitment to public health services.

Objective 3: *Building Siting*. The Project would provide a new outpatient pavilion within East Campus, in the vicinity of other UC San Diego Health La Jolla campus buildings. The Project would be designed with the same character, scale, and design goals of other projects in this part of campus.

Objective 9: *UC Health Services*. The Project would expand and enhance UC San Diego Health La Jolla campus facilities by providing a 180,000 GSF outpatient pavilion benefitting

the region's healthcare. The facility would allow for the continued training of healthcare professionals.

Objective 10: Multi-Modal Connections. The Project would be located adjacent to the UC San Diego Health La Jolla station serving the San Diego Trolley Blue Line, allowing for the reduction of automobile commuting by workers and staff.

Objective 11: Sustainable Development Practices. The Project would be designed with the goal of LEED Gold certification, which aims to reduce environmental impacts through construction and operational design measures. As described above, the Project would also be sited adjacent to an existing San Diego Trolley light rail station, reducing the need for automobiles.

3.2 LRDP CAMPUS POPULATION

The LRDP (including Amendment #1) anticipates that the total campus population could grow to approximately 96,300 (students, faculty and staff) by 2040. Due to the nature of the Project as an outpatient pavilion, the Project would not result in new campus populations related to student enrollment. However, the Project would incrementally increase the campus's staff population. The Project building is anticipated to be occupied by approximately 320 staff (full time equivalent). The majority would be existing UC San Diego employees relocating from existing facilities such as the Koman Outpatient Pavilion. However, the programs being relocated to the Project from the existing Koman Outpatient Pavilion would allow for conversion of some of the existing Koman Outpatient Pavilion space to oncology treatment rooms. Because staffing increases associated with the eventual backfill and renovation of the Koman space cannot be fully estimated at this time, this evaluation conservatively assumes that all 320 FTE staff positions represent a net-additive population to the campus.

Based on this and the data presented in Table 3-1, it has been determined that the Project is consistent with the campus population evaluated in the LRDP and would not cause the campus to exceed the LRDP's horizon year population projection.

Table 3-1
Total Campus Population Growth Projections

Category	Current Fall 2025[1]	LRDP Projected Fall 2040[2]
Students	45,090	56,000

Category	Current Fall 2025[1]	LRDP Projected Fall 2040[2]
Staff & Faculty	22,810	40,300
Total Population	**67,900**	**96,300**

Sources:

1 Fall 2026 data was not yet available at the time this document was published.

2 UC San Diego 2025a.

3.3 LRDP LAND USE

Section 3.5 of the LRDP describes functional land use categories that reflect those activities that would be predominant in any given area of campus. The Revised LRDP Land Use Plan (Figure 2-1 of the SEIR and Figure 1 of LRDP Amendment #1) approved with Amendment #1 to the LRDP provides a map of the campus land uses. Predominant uses are the primary programs, facilities, and activities in a general geographic area. Other support or ancillary uses are allowable within any given area defined by a predominant use.

The Land Use Plan designates the Project site as Academic Healthcare, defined as land and structures that provide healthcare services to the community. The Project would construct an outpatient pavilion to provide medical treatment or procedures that do not require an overnight stay. Therefore, the Project is consistent with the land use categories in the LRDP.

3.4 LRDP DEVELOPMENT SPACE

The LRDP plans for projected campus growth up to approximately 36.2 million GSF of building space for academic, clinical, housing, administrative, and service programs. This projected net increase accounts for the potential removal (demolition) of buildings that are beyond their useful life and/or are located in strategic redevelopment areas. The Project is within the East Campus portion of UC San Diego's La Jolla campus, where the LRDP projected up to 11,725,400 GSF of campus building space. At the time this document was prepared, the East Campus's total existing building space was approximately 5,111,900 GSF and an additional 1.1 million GSF had been approved for the Science Research Park Project, but not yet constructed. Once complete, the Project would add 180,000 GSF to the East Campus building space. Based on this data, it has been determined the Project would not exceed the building space projections contemplated in the LRDP and is consistent with the plan.

In addition, Figure 2.5, Potential Development Areas, and Table 2-5, Potential Areas of New Development and Redevelopment, of the SEIR identified the Project site as EC-2, La Jolla Outpatient Pavilion, which was assumed to host 180,000 square feet of new development. Therefore, the Project is consistent with the development assumptions of the LRDP and EIR.

4 CONSISTENCY WITH LRDP EIR and SEIR

The evaluation contained in this consistency review was conducted in accordance with §21094 of the California Public Resources Code. Pursuant to §15162, 15164 and 15168 of the State CEQA Guidelines, this Addendum documents that the Project's effects have been adequately addressed in a prior (or earlier) programmatic analysis. The LRDP EIR and SEIR comprehensively addressed the potential environmental effects of campus growth and development due to implementation of future projects and activities proposed under the LRDP and Amendment #1 to the LRDP. In some impact areas, the SEIR updated the conclusions of the EIR and therefore supersedes the EIR. In other cases, the SEIR had the same conclusion as the EIR or did not re-evaluate the impact area at all. These nuances are considered in this evaluation. Each resource evaluation below cites the corresponding section number where the topic is addressed in the SEIR and summarizes the conclusion of the SEIR. Each of these referenced SEIR sections also contain a summary of the prior findings of the EIR. Given the consistency of the proposed Project with the LRDP EIR and SEIR, preparation of an addendum is appropriate. As discussed in Section 3.3 of this Addendum, the project would be consistent with overall planned density and building intensity analyzed in the LRDP (CEQA Guidelines Section 15168(c)(2)). Therefore, the project would be within the scope of the LRDP EIR and SEIR.

4.1 EVALUATION OF PROJECT ENVIRONMENTAL IMPACTS

Checklist Explanation

The University has defined the following column headings in the environmental checklist section of this Addendum. Each heading relies on the relevant analyses in the LRDP EIR and SEIR:

Prior EIR & SEIR Conclusion: This column summarizes the conclusion of the prior environmental analysis of the LRDP EIR, and, where applicable, as updated by the SEIR.

Project Impacts Adequately Examined within Prior EIR & SEIR: This column is checked where the potential impacts of the Project were adequately examined in the certified LRDP EIR and SEIR. Where applicable, mitigation measures identified in the LRDP EIR and SEIR would mitigate the impacts of the Project. All applicable mitigation measures from the LRDP EIR and SEIR are incorporated into the Project as noted in Section 5 of this Addendum. The Project is consistent with the analysis of the LRDP EIR and SEIR.

Project Impact Not Adequately Examined in Prior EIR & SEIR: If a column is checked in this section, this indicates potential effects of the Project were not adequately evaluated in the certified LRDP EIR and SEIR; the potential effects of the project could result in: (1) no impact

in the category; (2) new less than significant impact in the category; or (3) new or substantially more severe potentially significant impact. In the instance that (1) or (2) is checked, no additional CEQA documentation would be necessary. In the instance that (3) is checked, additional CEQA documentation would be necessary to further address the issue.

All applicable mitigation measures would be incorporated into the Project as noted in Section 5 of this Addendum.

4.1.1 Aesthetics

AESTHETICS Would the Project...	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	Project Effects Not Examined in Prior EIR & SEIR: No Impact	Project Effects Not Examined in Prior EIR & SEIR: New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	Project Effects Not Examined in Prior EIR & SEIR: New or Substantially More Severe Potentially Significant Impact
a) Have a substantial adverse effect on a scenic vista?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	Less than Significant	☒	☐	☐	☐
c) Conflict with applicable zoning and other regulations governing scenic quality in an urbanized area?	No Impact	☒	☐	☐	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	Less than Significant with Mitigation	☒	☐	☐	☐

a) Section 3.1.3.1 of the SEIR evaluated whether implementation of the LRDP would have a substantial adverse effect on a scenic vista. The SEIR found that development projects associated with the LRDP could affect views from publicly accessible areas through the alteration of natural topography, vegetation, and/or development character. An updated MM Aes-1 was identified in the SEIR for projects that have the potential for scenic view impacts as a means for avoiding and/or mitigating those impacts to a less than significant level.

As shown in Figure 3.1-2, Campus Visual Resources, of the 2018 LRDP EIR, the Project site is not located within the Visual Sensitive Zone, or in the Perimeter Development Zone. Also, the Project is not within the viewshed of any Key Vantage Point (KVP)

identified in the 2018 LRDP EIR. Because of this, MM Aes-1 does not apply. Therefore, the Project is consistent with the less than significant impact finding of the LRDP SEIR.

b) Section 3.1.5 of the EIR and Section 3.1.5 of the SEIR indicate that there are no unique trees, trees of significant nature, or unique rock outcroppings on the UC San Diego campus within the viewshed of I-5, a "state scenic highway". Therefore, implementation of the LRDP was determined not to result in substantial damage to scenic resources within a state scenic highway, and no impacts or mitigation would be required.

   Consistent with this finding, implementation of the Project would not result in substantial damage to scenic resources within a state scenic highway because no such resources or roads exist on or adjacent to the UC San Diego, La Jolla campus. Therefore, the Project is consistent with the less than significant impact finding of the LRDP EIR and SEIR.

c) Section 3.1.3.2 of the SEIR evaluated impacts to visual character and quality. The SEIR concluded that the LRDP would not conflict with applicable zoning and other regulations governing scenic quality, and less than significant impacts would result.

   The Project is located within an urbanized area, has been reviewed by the UC San Diego Design Review Board, and would comply with the LRDP and UC San Diego Design Guidelines. Because the Project would comply with all applicable UC regulations governing scenic quality, the Project would not have the potential for a significant impact related to degradation of the visual character of the site and its surroundings. In addition, the Project is not near a campus visual resource (refer to Figure 3.1-2 of the SEIR). Therefore, the Project is consistent with the less than significant impact finding of the LRDP EIR and SEIR.

   The Project is consistent with the visual character and quality analysis of the LRDP SEIR.

d) Section 3.1.3.3 of the SEIR evaluated whether implementation of the LRDP would create a new source of substantial light or glare that could adversely affect day or nighttime views in the area. The SEIR analysis concluded that new sources of glare resulting from reflective building surfaces or vehicular headlights could result in potentially significant impacts. Implementation of MM Aes-3 (Glare Reduction Measures) and Mitigation Measure Bio-2H (Bird-Safe Building Standards) would reduce potentially significant impacts of LRDP implementation to a less than significant level.

   The Project design does not include a parking area that would result in vehicle headlights affecting nighttime views. While it does include surface parking, these parking areas are not near residences or other sensitive uses that could be impacted by headlights exiting the parking areas at night. As such, MM Aes-3 does not apply. In addition, the project has been designed to comply with bird safe building standards

pursuant to MM Bio-2H and as described in Section 2.5.2 of this document. Therefore, the Project is consistent with the less than significant impact finding of the LRDP SEIR.

Applicable SEIR Mitigation Measures: Bio-2H (Bird-Safe Building Standards)

4.1.2 Air Quality

AIR QUALITY			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	Less than Significant	☒	☐	☐	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?	Less than Significant with Mitigation	☒	☐	☐	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	Less than Significant (CO hotspots); Significant & Unavoidable (TAC emissions)	☒	☐	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less than Significant with Mitigation	☒	☐	☐	☐

a) Section 3.2.3.2 of the SEIR evaluated whether implementation of the LRDP would result in a conflict with or obstruct implementation of an applicable air quality plan. The SEIR analysis concluded that no conflicts would occur that would result in potentially significant impacts. No mitigation measures are required.

The LRDP incorporates development strategies identified in the San Diego Association of Governments (SANDAG) Regional Transportation Plan and Sustainable Communities

Strategy by integrating land use, housing, and transportation planning strategies consistent with the goals developed by SANDAG and the University land use assumed in the Regional Air Quality Strategy (RAQS). The Project is consistent with the LRDP, as described in Section 3 of this Addendum. UC San Diego implements a campus-wide transportation demand management (TDM) program that promotes pedestrian, micromobility, and transit commute modes and thereby reduces mobile sources of air pollutant emissions. The Project would be sited adjacent to a trolley station and would incorporate pedestrian connections to the greater campus circulation network served by the campus shuttle system, MTS bus routes, and bicycle paths. Therefore, the Project is consistent with the air quality management plan evaluation of the SEIR.

b) Section 3.2.3.1 of the SEIR evaluated whether implementation of the LRDP would result in a cumulatively considerable net increase of any criteria pollutant. The SEIR analysis concluded that the LRDP would result in less than significant impacts with incorporation of revised mitigation measure AQ-2B, and new mitigation measures AQ-2C, and AQ-2D.

   Implementation of the LRDP, including the Project, would contribute to a cumulatively considerable net increase of criteria pollutants for which the region is in non-attainment under an applicable federal or state ambient air quality standard. During construction, compliance with SDAPCD regulations would be implemented, including dust control best management practices. **MM AQ-2B** (minimize off-road construction equipment emissions) would be incorporated into construction specifications to reduce construction emission impacts to less than significant. To address operational emissions, **MMs AQ-2C** (electric landscape equipment) would be implemented to reduce operational impacts to a less than significant level. No emergency backup generator would be required as emergency power for the Project would be supplied by the East Central Utility Plant. Therefore, **MM AQ-2D** (minimize emergency backup generator emissions) does not apply to the Project. The Project is consistent with the less than significant with mitigation conclusion of the SEIR related to the cumulatively considerable net increase of any criteria pollutant.

c) Section 3.2.3.3 of the SEIR evaluated whether implementation of the LRDP would expose sensitive receptors to substantial pollutant concentrations. The SEIR concluded that impacts would be less than significant for carbon monoxide hotspots and significant and unavoidable for toxic air contaminant emissions. The SEIR analysis concluded that no new significant impacts were identified, but a revised mitigation measure AQ-2B would further reduce construction-related health risks. MM AQ-2D would also be implemented.

   Carbon monoxide (CO) concentrations resulting from implementation of the LRDP would not violate the CAAQS for either the 1-hour period (20 ppm) or the 8-hour period (9.0 ppm) and therefore would not expose sensitive receptors to CO hotspots. The Project implements a part of the LRDP, as amended, which would continue to result in less than significant impacts.

Section 3.2.3.5 of the LRDP EIR concluded that while implementation of the LRDP would not exceed the toxic air contaminant (TAC) threshold for on-campus residents and workers, it would exceed the thresholds for cancer risks affecting off-campus residents and workers, as well as both off-campus and on-campus sensitive receptors. The SEIR concluded that the LRDP would not result in a substantial increase in the exposure of sensitive receptors to substantial TAC emissions, but in combination with the sources of TACs analyzed in the LRDP EIR, health risk would continue to exceed applicable standards. Because construction of the Project, as well as traffic generated during its operations, would contribute to TAC emissions, **MM AQ-2B** would be incorporated into construction specifications to minimize this impact. TAC impacts would continue to be significant and unavoidable, consistent with the conclusions of the LRDP SEIR.

d) Section 3.2.3.4 of the SEIR evaluated whether implementation of the LRDP would result in odors or other emissions adversely affecting a substantial number of people. The SEIR concluded that impacts would be less than significant with implementation of mitigation measure AQ-4, which would require an odor control plan for a future wastewater treatment plant.

   Potential sources of odors during construction of the Project would include exhaust from diesel construction equipment. However, because of the temporary nature of these emissions and the highly diffusive properties of diesel exhaust, odors from construction equipment would not affect a substantial amount of people. The Project would use typical construction techniques, and the odors from off-road equipment and on-road vehicles would be typical of most construction sites and temporary in nature. In addition, Project operation would not produce new sources of odor or other pollutants that would adversely affect a substantial number of people. As the Project does not include wastewater treatment plant construction, MM AQ-4 does not apply. Odor impacts associated with construction and operation of residential and institutional land uses would be less than significant, consistent with the conclusion in the LRDP SEIR.

Applicable SEIR Mitigation Measures: AQ-2B (Minimize Off-Road Construction Equipment Emissions), AQ-2C (Electric Landscape Equipment)

4.1.3 Biological Resources

BIOLOGICAL RESOURCES			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	Less than Significant with Mitigation	☒	☐	☐	☐
c) Have a substantial adverse effect on state or federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	Less than Significant with Mitigation	☒	☐	☐	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	Less than Significant	☒	☐	☐	☐

BIOLOGICAL RESOURCES Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	Project Effects Not Examined in Prior EIR & SEIR: No Impact	Project Effects Not Examined in Prior EIR & SEIR: New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	Project Effects Not Examined in Prior EIR & SEIR: New or Substantially More Severe Potentially Significant Impact
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	No Impact	☒	☐	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	No Impact	☒	☐	☐	☐

a) Sections 3.3.3.1 and 3.3.3.2 of the SEIR evaluated whether implementation of the LRDP would result in a substantial adverse effect, either directly or through habitat modifications, on any plant or animal species identified as a candidate, sensitive, or special-status species. The SEIR concluded that impacts would be less than significant with mitigation for plant and animal species.

The Project site is developed and the LRDP defines it as Urban/Developed Land (refer to Figure 3.3-3 in the LRDP EIR). The Project site and immediately surrounding lands do not support habitat for special-status species; therefore, the Project would not cause any significant direct or indirect impacts. The Project site is currently occupied by a parking lot and landscaped areas. The site hosts several ornamental trees, and mature trees of varying height are located within 500 feet of the Project site. Because construction may occur during the raptor nesting season (generally January 15 through July 31), and during the general avian breeding season (February 15 through August 31), construction may disturb breeding and nesting. Implementation of **MMs Bio-2D** and **Bio-2E** from the 2018 LRDP EIR would reduce potential impacts to nesting birds and raptors during construction to a less than significant level.

The Project's completed building façade would be a mixture of glass and non-reflective materials. To ensure that the design does not result in impacts to avian species due to glass treatments, sightline features, landscaping, and lighting, **MM Bio-2H** would be required and has been incorporated into the Project's design as described in Section 2.5.2 of this document. Therefore, the Project is consistent with the sensitive species analysis of the LRDP SEIR.

b) Section 3.3.3.3 of the SEIR evaluated whether implementation of the LRDP would result in a substantial adverse effect on riparian habitat or other sensitive natural communities. The SEIR concluded that impacts would be less than significant with mitigation.

   The Project site is developed and does not contain riparian habitat or other sensitive natural communities. No significant impacts to such resources would occur and the Project is consistent with the biological resources analysis of the LRDP SEIR.

c) Section 3.3.3.3 of the SEIR evaluated whether implementation of the LRDP would result in a substantial adverse effect on federally protected wetlands. The SEIR concluded that impacts would be less than significant with mitigation.

   The Project site does not contain any aquatic or wetland feature as defined by Section 404 of the Clean Water Act. No significant impacts to such resources would occur and the Project is consistent with the biological resources analysis of the LRDP SEIR.

d) Section 3.3.5 of the SEIR evaluated whether implementation of the LRDP would interfere substantially with the movement of species or wildlife corridors. The EIR and SEIR concluded that no potential impacts would occur.

   Development of the Project would not preclude wildlife movement or impact wildlife corridors or linkages as none exist on the campus. As described above, bird safe building standards would be applied, per **MM Bio-2H**, to reduce potential avian impacts due to the design of the building façade and landscaping. Therefore, the Project is consistent with the biological resources analysis of the LRDP SEIR.

e) Section 3.3.5 of the SEIR evaluated whether implementation of the LRDP would conflict with any local policies or ordinances protecting biological resources. The SEIR concluded that no potential impacts would occur.

   UC San Diego is a part of the UC, a constitutionally created autonomous public corporation. Pursuant to the California Constitution, UC is not subject to municipal plans, policies, and regulations, such as County and City General Plans or local ordinances. Thus, the Project would not result in any conflicts with any local policies protecting biological resources and is consistent with the biological resources analysis of the LRDP SEIR.

f) Section 3.3.5 of the SEIR evaluated whether implementation of the LRDP would conflict with the provisions of an adopted or approved local, regional, or state habitat conservation plan. The SEIR concluded that no potential impacts would occur.

   UC San Diego is not included within the City of San Diego Multiple Species Conservation Plan nor is UC San Diego an enrolled agency in the Natural Community Conservation Planning (NCCP) Program. The Project would not directly or indirectly affect resources

preserved by the City of San Diego as part of its MSCP. Therefore, no impacts are anticipated to the City's MSCP or the NCCP Program and is consistent with the biological resources analysis of the LRDP SEIR.

Applicable SEIR Mitigation Measures: Bio-2D (Raptor Nest Avoidance), Bio-2E (General Avian Nest Avoidance), Bio-2H (Bird-Safe Building Standards),

4.1.4 Cultural and Tribal Cultural Resources

CULTURAL AND TRIBAL CULTURAL RESOURCES			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Cause a substantial adverse change in the significance of a historical resource as pursuant to §15064.5?	Significant and Unavoidable	☒	☐	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	Less than Significant with Mitigation	☒	☐	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	Less than Significant with Mitigation	☒	☐	☐	☐
d) Cause a substantial adverse change in the significance of a Tribal Cultural Resource as defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: 1) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public	Less than Significant with Mitigation	☒	☐	☐	☐

CULTURAL AND TRIBAL CULTURAL RESOURCES			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
Resources Code section 5020.1(k), or 2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.					

a) Section 3.4.3.1 of the SEIR evaluated whether implementation of the LRDP would cause a substantial adverse change in the significance of a historical resource. The SEIR concluded that mitigation measures would be required to reduce impacts to less than significant levels. Unavoidable impacts may occur, depending on the type of historic resource and extent of the impacts.

Based on the inventory and analysis contained in the Historic Resources Report prepared for the LRDP EIR (Appendix E to the LRDP EIR) or the Supplemental Historic Resources Technical Report prepared for the SEIR (Appendix E to the SEIR), the Project site contains no structures or facilities that are considered historic resources. The Project site is not located in any of the historic districts defined on campus. Therefore, the Project would not cause any changes to the significance of historic resources due to removals or demolition and is consistent with the historic resources analysis of the LRDP EIR and SEIR.

b, c, d)

Sections 3.4.3.2 and 3.4.3.3 of the SEIR evaluated whether implementation of the LRDP would cause a substantial adverse change in the significance of an archaeological resource or disturbance of human remains. The SEIR concluded that mitigation measures would be required to reduce impacts to less than significant levels. Assembly

Bill 52 (AB 52) requires CEQA lead agencies to consult with California Native American tribes that have requested consultation to identify and evaluate the significance of TCRs. Consistent with the CEQA process, both the LRDP EIR and SEIR included formal AB 52 consultation with California Native American tribes, and mitigation measures were adopted to address potential impacts to TCRs.

In January 2024, UC San Diego proactively contacted California Native American tribes traditionally and culturally affiliated with the San Diego region to solicit their interest in being notified of proposed campus development projects under AB 52. Responses were received from three Tribes - the Campo Band of Mission Indians, the San Pasqual Band of Mission Indians, and the Sycuan Band of the Kumeyaay Nation - requesting consultation with UC San Diego regarding the Update to the 2018 LRDP. Meetings were held with each of these three Tribes in 2024 to discuss the LRDP development program, which includes the proposed Project. The LRDP SEIR's Cultural Resources Monitoring, Discovery, and Treatment Plan was prepared based on feedback gained during these meetings. Mitigation measures Cul-2D and Cul-2E were updated to reflect this plan.

Based on a review of the Project's Area of Potential Effects in accordance with **MM Cul-2A**; the inventory and analysis contained in the Archaeological Resources Report prepared for the LRDP EIR (Appendix D to the LRDP EIR) and Addendum to the Archaeological Resources Report for the SEIR (Appendix D1 to the SEIR); and 2024 Tribal consultation discussed in section 3.4 of the SEIR, the Project site contains no known archaeological or Tribal cultural resources. The northern portion of the site is in the vicinity of prehistoric sites associated with cultural resources CA-SDI-9288 and SDM-W-2350. However, these sites have since been determined to be not significant and no further work was recommended.

The Project's Geotechnical Evaluation concluded that the site is entirely composed of artificial fill sitting directly on formation. No native soil profiles were encountered by soil borings. In addition, the southern portion of the site has been recently excavated as part of the East Campus Loop Road Project and excavation depths would remain within the artificial fill. Therefore, there is sufficient evidence showing that the pre-development ground surface has been previously removed and the potential for encountering cultural material is considered to be very low. Pursuant to the Cultural Resources Monitoring Discovery, and Treatment Plan and Mitigation Measures Cul-2D and Cul-2E, cultural monitoring is not required for the Project. Therefore, implementation of the Project would result in less than significant impacts, consistent with the cultural resources analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: Cul-1A (Compliance with the Standards), Cul-2A (Evaluation).

4.1.5 Energy

ENERGY Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	Project Effects Not Examined in Prior EIR & SEIR: No Impact	Project Effects Not Examined in Prior EIR & SEIR: New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	Project Effects Not Examined in Prior EIR & SEIR: New or Substantially More Severe Potentially Significant Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	Less than Significant with Mitigation	☒	☐	☐	☐

a) Section 3.5.3.1 of the SEIR evaluated whether implementation of the LRDP would result in the wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation. The SEIR concluded that mitigation measures **GHG-1A** and **GHG-1B** would be required to reduce impacts to less than significant levels.

During construction, the Project would result in an increase in energy consumption through the combustion of fossil fuels in construction vehicles, worker commute vehicles, and construction equipment, and the use of electricity for temporary buildings, lighting, and other sources. Additionally, because fuel is a cost to the contractor, contractors are financially incentivized not to waste energy. The Project would also consume energy for building heating and cooling, refrigeration, lighting, electricity, and commercial equipment. New staff, patient, and faculty vehicle trips and fleet vehicle trips associated with the Project would also be a source of energy consumption. However, the Project would comply with the energy conservation strategies expressed in the UC Sustainable Practices Policy. The Project would utilize 100 percent clean electricity; would exceed Title 24 energy performance requirements by at least 20 percent; and would not include natural gas combustion.

As described in the Project Description, the Project would target LEED Gold certification, would utilize an all-electric design, and install energy efficient features. The Project would also provide access to alternative transportation options to reduce reliance on personal vehicles. Bicycle parking would be placed near building

entrances and the Project is located adjacent to the existing UC San Diego Health La Jolla station of the San Diego Trolley. As noted under the VMT discussion above under Section 4.1.2, item g of the Air Quality discussion, the campus as a whole, including the Project, would produce a VMT that would be measurably lower than the regional and City averages, thus reducing energy usage associated with vehicle trips. In addition, the Project would be all-electric and would use clean electricity purchased through the UC Direct Access Program. Because of this, the Project would therefore support the campus's ability to fulfill **MM GHG-1A** (decarbonization of the Central Utilities Plant). Therefore, the Project would not result in wasteful, inefficient, or unnecessary use of energy and is consistent with the energy analysis of the LRDP SEIR.

b) Section 3.5.3.1 of the SEIR evaluated whether implementation of the LRDP would conflict with or obstruct a state or local plan for renewable energy or energy efficiency. The SEIR concluded that mitigation measures **GHG-1A** and **GHG-1B** would be required to reduce impacts to less than significant levels.

Construction of the Project would implement sustainability measures identified in Section 2.5.3 of this Addendum. Conformance with the Clean Energy component of the UC Sustainable Practices Policy and other UC requirements related to energy reduction and carbon-free energy use would ensure that the Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Therefore, the Project would not conflict with energy plan or policy and is consistent with the less than significant determination of the LRDP SEIR.

Applicable SEIR Mitigation Measures: None.

4.1.6 Geology and Soils

GEOLOGY AND SOILS			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
i) Rupture of a known earthquake fault, as delineated on the most	Less than Significant	☒	☐	☐	☐

GEOLOGY AND SOILS			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.					
ii) Strong seismic ground shaking?		☒	☐	☐	☐
iii) Seismic-related ground failure, including liquefaction?		☒	☐	☐	☐
iv) Landslides?		☒	☐	☐	☐
b) Result in substantial soil erosion or the loss of topsoil?	Less than Significant	☒	☐	☐	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	Less than Significant	☒	☐	☐	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	Less than Significant	☒	☐	☐	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	No Impact	☒	☐	☐	☐
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	Less than Significant with Mitigation	☒	☐	☐	☐

a) Section 4.1.2.1 of the SEIR analysis concluded that seismic hazard impacts were adequately analyzed in the LRDP EIR and that the Update to the LRDP would not result

in changes to the analysis provided in the LRDP EIR. The LRDP EIR concluded that impacts would be less than significant without mitigation.

Although the campus contains seismic hazards, implementation of the Project would not result in significant impacts because the UC San Diego campus and the surrounding area are not located within an Alquist-Priolo Earthquake Fault Zone. The Project site would not be subject to surface fault rupture but could be subject to a severe level of seismic ground shaking. In addition, portions of the campus could be subject to earthquake-induced landslides. As described in the Project's geotechnical evaluation, no indications of landsliding were observed at the site and the potential for large-scale slope instability is low (Ninyo & Moore 2025; Appendix A). The potential for seismic-related liquefaction is considered very low on campus due to the types of soils and depths to groundwater. The Project would comply with the CBC and the UC Policy on Seismic Safety, which require independent review of structural seismic design of both new construction and remodeling projects. Project compliance with these policies would avoid any potential f

b) Section 4.1.2.22 of the SEIR evaluated whether implementation of the LRDP would result in substantial soil erosion or loss of topsoil. The SEIR concluded that impacts related to soil erosion or topsoil loss would be less than significant without mitigation.

Similar to other campus development, the Project would comply with the UC San Diego Design Guidelines, which include the incorporation of low impact development (LID) and erosion and sediment control best management practices (BMPs), and UC San Diego's Stormwater Management Program and other regulatory requirements, as needed to minimize erosion and topsoil loss. Specifically, the Project would comply with relevant National Pollutant Discharge Elimination System (NPDES) permits, including the General Permit for Storm Water Discharges Associated with Construction Activity (General Construction Permit) and the General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (Phase II Small MS4 Permit), which require soil erosion control measures. Project compliance with these regulations during construction and operation would provide adequate protection against soil erosion during and after site construction. Therefore, the Project is consistent with the geology and soils analysis of the LRDP EIR.

c) Section 4.1.2.3 of the SEIR evaluated whether implementation of the LRDP would include development located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in an on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse. The SEIR analysis concluded that geologic stability impacts would be less than significant without mitigation.

As described in the Project's geotechnical evaluation, the site is underlain by existing fill soils that would not be suitable for construction without remedial grading. In addition,

the report has identified a concealed portion of a "potentially active, inactive, presumed inactive, or activity unknown" fault segments. The evaluation therefore provides recommendations that would be incorporated into the Project's design considerations during construction. These include remedial grading and excavation of fill soils, and recommendations based on the underlying soils. Furthermore, the Project would comply with the CBC and the University of California Seismic Safety Policy which would address unstable soil and slope conditions, if needed. Project compliance with these regulations during construction and operation would provide adequate protection against impacts. The Project is consistent with the geology and soils analysis of the LRDP EIR.

d) Section 4.1.2.4 of the SEIR evaluated whether implementation of the LRDP would include development that would be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property. The SEIR analysis concluded that impacts associated with expansive soil were adequately analyzed in the LRDP EIR and that the Update to the LRDP would not result in changes to the analysis provided in the LRDP EIR. The LRDP EIR concluded that impacts regarding expansive soils would be less than significant without mitigation. As described in the Project's geotechnical evaluation, testing of soils at the site indicates that expansive soils may be encountered, which would not be suitable for construction. The evaluation therefore provides recommendations that would be incorporated into the Project's design considerations during construction, such as remedial excavation and removal of expansive clayey soils. The Project would be required to comply with the CBC and the University of California Seismic Safety Policy. Project compliance with these regulations during construction and operation would provide adequate protection against impacts. The Project is consistent with the geology and soils analysis of the LRDP EIR.

e) Section 4.1.2.5 of the SEIR evaluated whether implementation of the LRDP would require or rely on septic tanks or alternative wastewater systems. The SEIR analysis indicates that no impacts would occur regarding the use of septic tanks or alternative wastewater systems. UC San Diego is provided sanitary sewer service by the City of San Diego and no septic tanks or alternative wastewater systems are used or anticipated to be associated with the implementation of the LRDP, including the Project. The Project is consistent with the geology and soils analysis of the LRDP EIR.

f) Section 4.1.2.6 of the SEIR evaluated whether implementation of the LRDP would directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. The SEIR concluded that potentially significant impacts to paleontological resources would be reduced to a less than significant level with implementation of **MM Geo-1** (Construction Monitoring for Paleontological Resources).

   Based on the mapping and analysis contained in Figure 3.4-2 of the LRDP EIR, the Project site is not located within an area of high potential for paleontological resources.

However, soil borings completed for the Project's geotechnical evaluation show that the site is underlain by the Scripps Formation, which is considered a highly sensitive geologic formation. Due to the potential for remedial excavation and removal of existing fill soils, construction of the Project may require grading of 1,000 cubic yards or more at depths of 10 feet or greater in Scripps Formation soils, which could encounter unique fossils resulting in potentially significant impacts to paleontological resources. Because of the potential for impacts to unique paleontological resources, construction monitoring during earthwork activities that reach Scripps Formation would be conducted in accordance with **MM Geo-1** of the SEIR. Compliance with the LRDP EIR mitigation framework would ensure the Project would reduce its potentially significant impacts to less than significant levels and is consistent with the cultural resources analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: Geo-1 (Construction Monitoring for Paleontological Resources).

4.1.7 Greenhouse Gas Emissions

GREENHOUSE GAS EMISSIONS			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Conflict with an applicable plan, policy, or regulation adopted for the purpose or reducing the emissions of greenhouse gases?	Less than Significant with Mitigation	☒	☐	☐	☐

a) Section 3.6.3.1 of the SEIR evaluated whether implementation of the LRDP would generate greenhouse gas emissions either directly or indirectly, that may have a significant impact on the environment. The SEIR analysis concluded that although campus growth under the LRDP would result in incremental increases in GHG emissions, implementation of the LRDP would achieve the 2040 efficiency target

developed to show substantial progress toward the UC Sustainable Practices Policy's 2045 target, resulting in a less than significant impact with programmatic mitigation measures **MMs GHG-1A** (Decarbonization of the Central Utilities Plant) and **GHG-1B** (Electric Charging Stations).

Construction and operation of the Project would result in GHG emissions from site preparation, construction vehicle trips, construction equipment, water treatment/usage, solid waste disposal, and mobile sources (air and vehicle travel). However, the Project would include multiple design features that would reduce its overall contribution to campus-wide GHG emissions and the facility has been designed to be all-electric, utilizing purchased 100 percent clean electricity. These green building design features are described in the project description in Section 2 of this Addendum. These design elements are reflective of UC San Diego's commitment to sustainability and the UC Sustainable Practices Policy.

Implementation of the SEIR measure **MM GHG-1A** (decarbonization of the central utilities plant) would reduce campus-wide GHG emissions. While the measure is a programmatic requirement for the campus to meet by the year 2040, all-electric, energy-efficient building projects support the ability of the campus to decarbonize its central utilities plant. The Project would not add new EV charging stations to facilitate campuswide implementation of **MM GHG-1B** (electric charging stations) because parking lot P707 is slated by the LRDP as a potential future development site. However, the project would allow continued access to the existing charging station in the northern parking area of P707. The campus has targeted expansion of its EV charging equipment in other parking areas, currently offering over 565 charging stations that will grow to 1,200 by the end of 2026. Additionally, the Project would be incorporated into the campus tracked emissions, once operational, during annual emissions inventories. Therefore, the Project is consistent with the GHG analysis of the SEIR.

b) As discussed in Section 3.6.3.2 of the SEIR, applicable plans and policies with the purpose of reducing GHG emissions include SANDAG's 2021 Regional Plan (detailing the "5 Big Moves") and the UC Sustainable Practices Policy. The LRDP implementation, including the proposed Project, does not conflict with the 5 Big Moves identified in the SANDAG 2021 Regional Plan, thereby contributing to the GHG reduction strategy for the region. The Project would be constructed adjacent to a trolley station consistent with the strategy of the 2021 Regional Plan to focus growth where high-quality transit is available. As described above and in the Project Description section of this Addendum, the Project would comply with UC Sustainable Practices Policy. Consistent with the overall LRDP, the Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and is consistent with the GHG analysis of the SEIR.

Applicable SEIR Mitigation Measures: None.

4.1.8 Hazards and Hazardous Materials

HAZARDS AND HAZARDOUS MATERIALS			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	Less than Significant	☒	☐	☐	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	Less than Significant	☒	☐	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	Less than Significant	☒	☐	☐	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	Less than Significant with Mitigation	☒	☐	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	Less than Significant	☒	☐	☐	☐

HAZARDS AND HAZARDOUS MATERIALS			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	Less than Significant with Mitigation	☒	☐	☐	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	Less than Significant	☒	☐	☐	☐

a, b) Section 4.1.3.1 of the SEIR evaluated whether implementation of the LRDP would create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Section 4.1.3.2 of the SEIR evaluated whether implementation of the LRDP would create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. The SEIR analysis concluded that impacts associated with hazardous materials would be less than significant without mitigation.

Adherence to existing regulations and compliance with campus safety standards mandated by applicable federal, state, University, and local laws and regulations, would minimize the risks resulting from the routine transportation, use, storage, or disposal of hazardous materials or hazardous wastes and from accidental releases during Project construction. In addition, UC San Diego has an Emergency Operations & Incident Management Plan that provide a framework for an organized and trained response to various human-caused and natural emergency situations. The Project is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

c) Section 4.1.3 of the SEIR evaluated whether implementation of the LRDP would emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. The SEIR concluded that impacts associated with hazardous materials would be less than significant without mitigation.

The Project would involve the use or transport of hazardous materials. However, the campus would continue to comply with federal and state regulations pertaining to

hazardous wastes and with existing campus programs, practices, and procedures that would ensure that risks associated with hazardous emissions or materials to existing or proposed primary or secondary schools located within one-quarter mile from the campus would remain less that significant through proper handling procedures, disposal practices, and/or cleanup procedures. The Project is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

d) Section 4.1.3.4 of the SEIR evaluated whether implementation of the LRDP would involve hazardous materials sites that could create a significant hazard to the public or the environment. The SEIR analysis indicated that hazardous materials associated with the former Camp Matthews and Camp Callan, as well as the potential for encountering unknown contamination during construction, could result in potentially significant impacts in some locations, but with mitigation, impacts would be less than significant.

   The Project site is located on a contaminated site pursuant to Government Code Section 65962.5 (LRDP EIR Impact 3.7-4). The Project would potentially disturb known contamination sites associated with the former Camp Matthews training activities. Due to the Project site's location relative to historic training operations, the potential exists for unknown contamination from munitions debris or Munitions and Explosives of Concern (MEC). The campus would require compliance with **MM Haz-4A** to assess the potential for risk and require remediation in accordance with **MM Haz-4B**, if required. However, this is not anticipated because the entire site was previously developed with surface parking lots, and the southern portion of the site was recently graded as part of the East Campus Loop Road Project, in which no contamination from munitions debris or MEC were encountered. In the event that underground storage tanks (USTs) or undocumented areas of contamination are encountered during construction, the contractor in collaboration with UC San Diego would stop work in compliance with **MM Haz-4C** to allow for the proper implementation of appropriate health and safety procedures, as required by applicable regulations. Compliance with the LRDP EIR mitigation framework would ensure the Project would reduce its potentially significant impacts to less than significant levels and is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

e) Section 4.1.3.5 of the SEIR evaluated hazards from nearby airports. UC San Diego is not located within any Accident Potential Zones (APZs) for Marine Corps Air Station (MCAS) Miramar and, thus, implementation of the Project would not result in a significant aircraft safety hazard. With regard to the Torrey Pines Gliderport, its short-term use is not a safety hazard to the campus and surrounding area because the gliders do not take-off or land over UC San Diego structures. The Project is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

f) Section 4.1.3.6 of the SEIR evaluated whether implementation of the LRDP would impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The SEIR analysis indicated that an updated analysis of

emergency response and evacuation plans is provided in Section 3.13.3.1 of the SEIR. Section 3.13.3.1 concluded that impacts to emergency response and evacuation plans would be reduced to a less than significant level with **MM Haz-6** (Roadway Closure Notification).

Project construction would require the temporary closure of the existing campus roadway network but would not interfere with response times of emergency vehicles during its operation. As required by **MM Haz-6**, UC San Diego would require the construction contractor to notify the Campus Fire Marshal and community to prevent conflicts with emergency access or evacuation routes during construction. Compliance with the LRDP EIR mitigation framework would ensure the Project would reduce its potentially significant impacts to less than significant levels and is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

g) Section 4.1.3.7 of the SEIR evaluated whether implementation of the LRDP would expose people or structures to a significant risk of loss, injury or death involving wildland fires. Since certification of the LRDP EIR, wildfire was added to Appendix G of the CEQA Guidelines as a separate topic from hazards and hazardous materials; therefore, further analysis of wildfire impacts is provided in Section 3.13, Wildfire, of the SEIR. As described therein, impacts would be less than significant and no mitigation would be required, consistent with the conclusion in the LRDP EIR.

Portions of the Project site are located in an area designated as a Very High Fire Hazard Zone.[1] As described in Section 2.5.4 of this Addendum, the Project will install a fire system, fire alarms, and a fire access plan will be prepared. In addition, the Campus Fire Marshal reviews all project design plans to ensure adequate emergency access. UC San Diego would continue to implement brush management around buildings that are adjacent to undeveloped areas of the campus, would equip all new on-campus academic, residential, medical, research, and support facilities with emergency fire sprinkler systems and would continue to retrofit existing buildings with fire sprinklers, in accordance with the CBC. The UC San Diego Fire Marshal would be responsible for ensuring that adequate access is maintained on campus at all times and would meet regularly with the City of San Diego Deputy Fire Chief to maintain a site plan/access plan that would adequately serve the campus. The Project would result in less than significant wildfire impacts and is consistent with the hazards and hazardous materials analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: Haz-4A, Haz-4B, Haz-4C, Haz-6 (Roadway Closure Notification).

[1] City of San Diego, Fire-Rescue Department, Very High Fire Hazard Severity Zones map: https://www.sandiego.gov/fire/services/brush/severityzones, accessed April 1, 2026.

4.1.9 Hydrology and Water Quality

HYDROLOGY AND WATER QUALITY			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Violate any water quality standards or waste discharge requirements, or otherwise substantially degrade surface or groundwater quality?	Less than Significant	☒	☐	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	Less than Significant	☒	☐	☐	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i)result in substantial erosion or siltation on- or off-site? (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff; or	Less than Significant	☒	☐	☐	☐

HYDROLOGY AND WATER QUALITY			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
(iv) impede or redirect flood flows?					
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	Less than Significant	☒	☐	☐	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	Less than Significant	☒	☐	☐	☐

a, c) Sections 4.1.4.3 and 4.1.4.5 of the SEIR evaluated whether implementation of the LRDP would degrade surface or groundwater quality or alter existing drainage patterns. The SEIR analysis concluded that impacts would be less than significant without mitigation.

Construction of the Project would not contribute substantial loads of sediment or other pollutants to stormwater runoff due to compliance with the NPDES state-wide General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activity (General Permit). As part of the General Permit, campus construction projects managed by outside contractors and disturbing over one acre (including the Project) must implement Stormwater Pollution Prevention Plans (SWPPPs), which specify BMPs to reduce the contribution of sediments, spilled and leaked liquids from construction equipment, and other construction-related pollutants to stormwater runoff. Compliance with the regulations would provide adequate protection from stormwater contamination and water quality protection from construction activities on campus.

Development of the Project would result in an overall increase in impervious surfaces and produce changes to site-specific stormwater infrastructure. During the Project's planning and design phases, it underwent review by UC San Diego Campus Planning, Capital Program Management (CPM), and engineering staff to ensure utility infrastructure is adequately sized and/or upgraded by the Project. As described in Section 2.5.4 of this Addendum, storm drains would be installed throughout the site to capture and convey stormwater from impervious surfaces. Pollutant removal treatment would be provided by a combination of biofiltration basins and a modular wetland unit in the southwest corner of the Project site. The Project's proposed biofiltration basin

would be sized to reduce peak flow rates as compared to existing conditions. For 10-year and 100-year storm events, the Project's flow rates would be reduced to pre-Project levels (Latitude 33 2026; Appendix B).

In addition, the Project would be required to comply with UC San Diego Design Guidelines and Storm Water Management Program and other regulatory requirements related to storm water runoff. Campus development, including the Project, is covered under the Phase II Small MS4 Permit, which requires management of long-term stormwater discharges and implementation of pollution protection measures. These management practices are enforced under the campus stormwater management program and ensure long-term protection related to stormwater pollution. Therefore, the Project is consistent with the hydrology/water quality analysis of the LRDP EIR.

b) Section 4.1.4.2 of the SEIR evaluated whether implementation of the LRDP would substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that it could impede sustainable groundwater management of the basin. The SEIR analysis concluded that groundwater supply and recharge impacts would be less than significant without mitigation. No removal of groundwater is proposed, as the Project would use potable and recycled water supplied by the City of San Diego Public Utilities Department via existing and future lines on UC San Diego's campus. Therefore, the Project is consistent with the discussion presented in the LRDP EIR.

d) Section 4.1.4.4 of the SEIR evaluated whether implementation of the LRDP would risk pollutant discharges due to risk of tsunami, seiche, or floods. The SEIR analysis concluded that impacts would be less than significant. Implementation of the Update would not change the conclusions of that analysis and the Project is consistent with the discussion presented in the LRDP EIR

The entire UC San Diego campus is outside of the 100-year and 500-year flood hazard areas or any County-identified flood hazard areas. In addition, the Project site is not within an area that contains risk from seiches because this phenomenon is typically associated with land-locked bodies of water. The Project is also not within SIO and therefore not at risk for inundation by tsunamis. Thus, the Project would not result in significant impacts related to potential pollutant release during floods, tsunamis, and seiches. The Project is consistent with the flood hazard evaluation of the LRDP EIR.

e) Section 4.1.4.5 of the SEIR evaluated whether implementation of the LRDP would result in a conflict with or obstruction of a water quality control plan or a sustainable groundwater management plan. The SEIR analysis concluded that impacts would be less than significant without mitigation.

Construction activities could result in significant short-term water quality impacts from uncontrolled sediment and pollutants in storm water runoff that could conflict with the

policies of the Basin Plan. The proposed Project would be required to comply with the UC San Diego Design Guidelines, policies, SWMP and other regulatory requirements related to storm water runoff to minimize the potential for pollutants to enter receiving waters.

Operation of the Project could result in significant long-term water quality impacts from uncontrolled pollutants in storm water runoff that could conflict with the policies of the Basin Plan. The proposed Project would integrate storm water BMPs to promote on-site treatment prior to being discharged. As described in Section 2.5.4 of this Addendum, pollutant removal treatment would be provided by a combination of biofiltration basins and a modular wetland unit in the southwest corner of the Project site.

With the incorporation of the proposed site design, source control, and treatment control BMPs and the continued implementation of UC San Diego Design Guidelines, SWMP and other regulatory requirements, water quality impacts associated with changes in storm water runoff would be minimized and would not conflict with or obstruct implementation of the Basin Plan. In addition, the Project is not in an area governed by a sustainable groundwater management plan. Therefore, the Project is consistent with the discussion included in the LRDP EIR.

Applicable SEIR Mitigation Measures: None.

4.1.10 Land Use and Planning

LAND USE AND PLANNING			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Physically divide an established community?	No Impact	☒	☐	☐	☐
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	Less than Significant	☒	☐	☐	☐

a) Section 4.1.5.1 of the SEIR evaluated whether implementation of the LRDP would physically divide an established community. The SEIR analysis concluded that impacts associated with community division would be less than significant without mitigation.

   The Project does not involve any development outside of established campus properties or boundaries, and no incursion into, or division of, the surrounding residential communities would occur. The Project is consistent with the land use analysis of the LRDP EIR.

b) Section 4.1.5.2 of the SEIR evaluated whether implementation of the LRDP would result in a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. The SEIR analysis concluded that impacts related to land use compatibility would be less than significant without mitigation.

   As described in Section 3 of this document, the Project is consistent with the objectives, population forecasts and building space projections in the LRDP, which is the applicable land use plan for the UC San Diego campus. The estimated 320 full-time-equivalent staff population associated with the Project includes any campus population for the future backfilling of the Koman Outpatient Pavilion spaces that would be relocated to the Project. The SEIR identified the Project site as EC-2, La Jolla Outpatient Pavilion, which was assumed to host 180,000 square feet of new development. The Project would not conflict with a land use plan, policy, or regulation and is consistent with the land use analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: None.

4.1.11 Noise

NOISE

Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	Project Effects Not Examined in Prior EIR & SEIR: No Impact	Project Effects Not Examined in Prior EIR & SEIR: New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	Project Effects Not Examined in Prior EIR & SEIR: New or Substantially More Severe Potentially Significant Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	Less than Significant with Mitigation	☒	☐	☐	☐
c) For a project located within the vicinity of a private airstrip or within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	No Impact	☒	☐	☐	☐

a) Section 3.7.3.1 of the SEIR evaluated whether implementation of the LRDP would result in the generation of a substantial temporary or permanent increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. The SEIR analysis concluded that temporary and permanent noise level increases would be potentially significant but would be reduced to a less than significant level with implementation of **MMs NOI-1(A-F)**.

Temporary Noise Increases: The closest noise-sensitive land uses (NSLUs), as defined in the SEIR, are the inpatient hospital buildings to the southwest and the classrooms to the north. The UC San Diego Jacobs Medical Center is located approximately 1,000 feet

to the southwest and the Preuss School is located approximately 180 feet north of the Project site across Campus Point Drive. Although the Project would be located over 150 feet from nearby NSLUs, it would involve the use of construction equipment that may result in elevated noise levels. Anticipated equipment may include jackhammers, concrete saws, vibratory rollers, and pile drivers. Project construction would therefore be required to comply with **MM Noi-1F**, which requires construction noise to be limited to 75 A-weighted decibels (dBA), when measured at NSLUs between 7:00 a.m. and 7:00 p.m. Therefore, incorporation into the contractor's specifications the construction noise control measures as required by the mitigation framework in the SEIR would ensure that construction-related noise impacts would be less than significant, and the Project is consistent with the noise analysis of the SEIR.

Permanent Noise Increase: Implementation of the Project would contribute to increases in traffic noise along local roadways. The Project implements a portion of the LRDP, which was evaluated in the Supplemental Noise Analysis prepared for the SEIR. This evaluation concluded that less than significant impacts associated with vehicular traffic noise would occur.

The Project would construct buildings requiring the use of equipment related to heating, ventilation, and air conditioning (HVAC) units; however these stationary noise sources would be located at distances further than the screening distances defined in **MM Noi-1C**, and therefore that measure does not apply to the Project. Future HVAC units would be positioned at locations further than 100 feet from existing NSLUs. Therefore, the Project is consistent with the noise analysis of the LRDP EIR and SEIR.

b) Section 3.7.3.2 of the SEIR evaluated whether implementation of the LRDP would result in the generation of excessive groundborne vibration or groundborne noise levels. The SEIR analysis concluded that while construction-related vibration impacts could be potentially significant, implementation of **MM Noi-2B** would reduce impacts to a less than significant level.

The Project would serve as a medical office building and does not propose operational uses which would generate ground-borne vibration.

Construction activities associated with the Project would involve heavy earth-moving equipment and impact-type pile driving during the grading and site preparation phases of construction. These activities could temporarily expose vibration-sensitive land uses to elevated noise levels due to their proximity to the Project site or use of heavy equipment. As shown in Table 3.7-9 of the SEIR, vibration-sensitive uses include uses such as classrooms, housing, operating rooms, and receptors considered to be Vibration Criterion A (VC-A) or above as defined by the Federal Transit Administration's *Transit Noise and Vibration Impact Assessment Manual* (2018). Table 3.7-9 of the SEIR also shows screening distances at which vibration-generating construction equipment would be utilized. VC-A receptors include medium- to high-powered optical microscopes,

microbalances, optical balances, and similar specialized equipment. Two buildings south of the Project site operate equipment with a VC-A designation and contain operating rooms: the Shiley Eye Institute and the Viterbi Family Vision Center. According to Table 3.7-9, the operation of vibratory roller or similar construction equipment within 215 feet of VC-A receptors and the operation of pile driving within 450 feet of VC-A receptors could negatively impact operation of the VC-A equipment.

The Shiley Eye Institute and Viterbi Family Vision Research Center are located approximately 130 and 200 feet from the edge of the Project's construction site, respectively, measured from the nearest building façade to the nearest edge of the Project site. Shoring activities would be located approximately 300 feet from the Shiley Eye Institute and 400 feet from the Viterbi Family Vision Center. It is expected that shoring would be completed with auger-cast footings, which do not produce high levels of vibration. No pile driving is anticipated. However, vibratory roller equipment is anticipated to be utilized throughout the project site.

At distances of 215 feet from vibratory roller use, the VC-A receptors (i.e., vibration-sensitive equipment) would be exposed to potentially significant vibration levels. The Project would therefore be required to implement **MM Noi-2B** for vibratory rolling activities within 215 feet of the Shiley Eye Institute and/or Viterbi Family Vision Center, which is generally limited to the southern edge of the project site. Vibratory rolling activities located more than 215 feet away from these receptors would not require mitigation as impacts are not anticipated at these distances. MM Noi-2B requires the preparation of a construction vibration mitigation program by a qualified acoustician to identify and reduce vibration from construction activities. The program would involve measures which may include monitoring and notifications to occupants of vibration-sensitive land uses prior to construction. Therefore, implementation of the construction vibration mitigation program per **MM Noi-2B** would ensure that vibration impacts resulting from construction of the Project would be less than significant and the Project is consistent with the noise analysis of the LRDP EIR and SEIR.

c) Because there are no private airstrips within two miles of the UC San Diego campus and the campus is not located within the 60 dBA CNEL contour of any airport, including MCAS Miramar and the Medical Center heliport operations; there is no potential for significant noise impacts from aircraft operations in the Project area. Therefore, the Project is consistent with the noise analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: Noi-1F (Construction Noise Screening Distance), Noi-2B (Construction Vibration Screening Distance).

4.1.12 Population and Housing

POPULATION AND HOUSING			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	Significant and Unavoidable (Direct) Less than Significant (Indirect)	☒	☐	☐	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	Less than Significant	☒	☐	☐	☐

a) Section 3.8.3.1 of the SEIR evaluates whether implementation of the LRDP would induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure). The SEIR analysis concluded that direct impact related to the inducement of substantial population growth would remain significant and unavoidable. However, the population increases associated with implementation of the LRDP would be offset by additional housing. Indirect impacts related to inducement of substantial population growth would be less than significant.

As discussed in Section 3.2 of this Addendum, the Project is anticipated to incrementally increase the number of staff on the UC San Diego campus by approximately 100 people (full-time equivalent staff), which could contribute to a direct population growth in the region if new hires relocate from areas outside of the region. However, this level of growth is consistent with the campus population projections approved with the LRDP, as discussed in Section 3 of this Addendum. While the Project would increase the number of patients that UC San Diego Health's outpatient program could serve, patients typically already reside in the San Diego region or travel to San Diego temporarily, and the ability to serve more patients would not contribute to a direct regional population growth. No new roads would be extended into undeveloped areas as part of the Project. In addition, Project utilities would connect to existing infrastructure that has been sized to accommodate projected campus growth, as noted in Section 2 of this Addendum. Therefore, the Project is consistent with the population

and housing analysis of the LRDP EIR and SEIR, which concluded significant and unavoidable impacts for directly inducing population growth and less than significant impacts for indirectly inducing population growth.

b) Section 3.8.3.2 of the SEIR evaluates whether implementation of the LRDP would displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. The SEIR analysis concluded that implementation of the LRDP would not displace substantial numbers of existing housing or people, necessitating the construction of replacement housing elsewhere and impacts would be less than significant.

   The Project would not temporarily displace a substantial number of people on the campus (because the site does not currently contain any occupied buildings) or create a demand for new housing that cannot be accommodated locally. Therefore, the Project is consistent with the population and housing analysis of the LRDP EIR and SEIR.

Applicable SEIR Mitigation Measures: None.

4.1.13 Public Services

PUBLIC SERVICES			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	Less than Significant				
i) Fire protection?		☒	☐	☐	☐
ii) Police protection?		☒	☐	☐	☐

PUBLIC SERVICES			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
iii) Schools?		☒	☐	☐	☐
iv) Parks?		☒	☐	☐	☐
v) Other public facilities		☒	☐	☐	☐

a) Section 3.9.3 of the SEIR evaluated whether implementation of LRDP would require new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, to maintain acceptable service ratios, response times or other performance objectives for public services. The SEIR analysis concluded that impacts to public services would be less than significant without mitigation.

Implementation of the Project may contribute to the overall need for new fire and police protection and school, park, and other public facilities in the University area, but not at a level that would require new facilities beyond those that exist or are already planned by the various service providers nor would any new facilities result in a significant physical impact to the environment. Therefore, the Project is consistent with the public services analysis of the LRDP EIR which concluded that impacts were less than significant. The SEIR disclosed a significant and unavoidable cumulative impact associated with new school facilities, even with implementation of **MM PS-1** (consultation with San Diego Unified School District) requiring consultation with the school district regarding campus residential projects that would house school-aged children.

Applicable SEIR Mitigation Measures: None.

4.1.14 Recreation

RECREATION			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	Less than Significant	☒	☐	☐	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	Less than Significant	☒	☐	☐	☐

a) Section 4.1.7.1 of the SEIR evaluated whether implementation of the LRDP would increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The SEIR analysis concluded that impacts to park and recreation facilities would be less than significant without mitigation.

The increase in campus population attributable to the Project may incrementally increase demand for recreation facilities on and off campus. However, the LRDP anticipates such growth and includes provisions for development and maintenance of new and existing recreation facilities on campus. The City of San Diego would also continue to expand and maintain its off-campus recreation facilities in response to its own population growth, whose residents could include the new campus population associated with the Project. Substantial physical deterioration in recreation facilities is, therefore, not expected to occur as a result of the Project. Therefore, the Project is consistent with the public services analysis of the LRDP EIR.

b) Section 4.1.7.2 of the SEIR evaluated whether implementation of the LRDP would include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment. The SEIR analysis concluded that impacts would be less than significant without mitigation.

Implementation of the Project would not require the construction or expansion of recreational facilities or otherwise contribute to the campus-wide need for new or expanded facilities. The environmental impacts associated with the development of new campus recreational facilities would be less than significant through the application of the mitigation framework in the LRDP EIR. Therefore, the Project is consistent with the recreation analysis of the LRDP EIR.

Applicable SEIR Mitigation Measures: None.

4.1.15 Transportation and Circulation

TRANSPORTATION/TRAFFIC			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Conflict with an applicable plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	Less than Significant	☒	☐	☐	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	Less than Significant	☒	☐	☐	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	No Impact	☒	☐	☐	☐
d) Result in inadequate emergency access?	No Impact	☒	☐	☐	☐

a) Section 3.10.3.1 of the SEIR evaluated whether implementation of the LRDP would conflict with an applicable plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. The SEIR analysis concluded that impacts on the circulation system and conflicts with applicable transportation plans and policies would be less than significant without mitigation.

Implementation of the Project would not conflict with applicable policies, plans, or programs regarding safety or performance of public transit, roadway, bicycle, or pedestrian facilities. The LRDP, including Amendment #1, which the Project is an implementing part of, was determined to be consistent with SANDAG's 2021 Regional Plan as described in Section 10.3.1 of the SEIR. In addition, as described in Section 2.5.3 of this Addendum, the Project site is located adjacent to the UC San Diego Health La Jolla station of the San Diego Trolley's Blue Line and would install bicycle parking at the building entrances. Therefore, the Project is consistent with the transportation analysis of the SEIR.

b) Section 3.10.3.2 of the SEIR evaluated whether implementation of the LRDP would conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b), which pertains to impacts measured using vehicle miles traveled (VMT). The SEIR analysis conducted an evaluation which concluded that development under the LRDP would not introduce any project-specific factors resulting in significant VMT generation. VMT impacts would be less than significant without mitigation.

   CEQA Guidelines section 15064.3 pertains to impacts associated with vehicle miles traveled (VMT). The UC San Diego campus is located within a TPA per the City of San Diego's TPA interactive mapping service and is located within one-half mile of multiple major transit stops as defined by PRC Section 21064.3 (refer to Figure 3-1.1 of the SEIR). As such, no significant VMT is presumed to occur as a result of the Project, as discussed in Section 3.10.3.2 of the SEIR. Therefore, the Project is consistent with the SEIR.

c) Section 3.10.5 of the SEIR evaluated whether implementation of the LRDP would substantially increase hazards due to geometric design features or incompatible uses. The SEIR analysis concluded that no impacts would occur in this regard.

   The Project would not change the campus circulation system or off-site circulation system nor would it substantially increase hazards due to design features or incompatible uses. Therefore, the Project is consistent with the transportation analysis of the LRDP EIR.

d) Section 3.10.5 of the SEIR evaluated whether implementation of the LRDP would result in impacts related to inadequate emergency access. The SEIR analysis concluded that no impacts would occur in this regard.

   The campus programmatically updates the emergency access route map, as necessary, to ensure that adequate fire protection and emergency access on campus is maintained. In addition, all proposed development, including the Project, would be reviewed and approved by the Campus Fire Marshal. Therefore, the Project is consistent with the LRDP EIR.

Applicable SEIR Mitigation Measures: None.

4.1.16 Utilities and Service Systems

UTILITIES, SERVICE SYSTEMS AND ENERGY			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities or expansion of existing facilities, the construction or relocation of which could cause significant environmental effects?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	Less than Significant	☒	☐	☐	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the providers existing commitments?	Less than Significant with Mitigation	☒	☐	☐	☐
d) Generate solid waste in excess of State or local standards or the capacity of local infrastructure or negatively impact the provision of solid waste services or impair the attainment of solid waste reduction goals?	Less than Significant	☒	☐	☐	☐

UTILITIES, SERVICE SYSTEMS AND ENERGY			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
e) Comply with federal, state, and local management and reduction statues and regulations related to solid waste?	Less than Significant	☒	☐	☐	☐

a) Section 3.12.3.1 of the SEIR evaluated whether implementation of the LRDP would require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. The SEIR concluded that less than significant impacts would occur with regard to utility and service systems, with the exception that potentially significant wastewater impacts would be mitigated to a less than significant level with implementation of **MM Util-1** (Downstream Sewer Assessment) and **MM Util-2** (Downstream Wastewater Capacity).

During the planning and design phase for the Project, UC San Diego Campus Planning and CPM project management and engineering staff conducted a review of the Project's utility needs to verify that adequate infrastructure would be available to serve its domestic water, wastewater, storm water, energy, and telecommunication needs. Additionally, as part of the site evaluation and design process, the master utilities planning studies were considered and CPM engineers were consulted to identify any capacity constraints and determine whether system improvements would be required to support the Project. Based on these consultations no offsite infrastructure improvements or upsizing would be required. As described in Section 2.5.4 of this Addendum, the Project would construct connections to existing utility infrastructure in the vicinity and would not require the replacement of off-site infrastructure. Storm drains would be installed throughout the site to capture and convey stormwater from impervious surfaces. Pollutant removal treatment would be provided by a combination of biofiltration basins and a modular wetland unit in the southwest corner of the Project site. During construction, a SWPPP containing appropriate construction site erosion and sedimentation control BMPs would be prepared and implemented. Perimeter controls to prevent storm water pollution from exiting the construction site would be installed along the site's perimeter.

The Project would be located within Sewer Basin 400 (see Figure 3.12-1 of the SEIR), which was identified by the UC San Diego 2018 LRDP Update Sewer Study as a basin in which future development requires that **MM Util-1** (Downstream Sewer Assessment) is implemented (Latitude 33 2025). The downstream sewer study required by **MM Util-1** has been completed by UC San Diego and was submitted to the City of San Diego in March 2026. The study demonstrates that LRDP growth does not create a downstream capacity issue by itself; rather, the projected buildout and population growth of the University Community[2] (assuming all parcels within the University Community would be redeveloped with the maximum densities allowed by the 2024 University Community Plan update) would result in inadequate capacity in the sewer mains within La Jolla Village Drive and Gilman Drive. Because the growth projections in the City's community plan update do not prescribe timelines or phasing and maximum densities may never be realized, the study presents a conservative scenario. Therefore, the study recommends that UC San Diego continue to meter its sewer outfall locations and coordinate annually with the City on anticipated growth in 5-year increments, allowing the City to take into account campus growth as it plans the upcoming capital improvement projects that will be required as the University Community growth anticipated by the community plan update is realized. The downstream sewer study recommendation is consistent with the requirements of **MM Util-2,** which includes coordination with the City of San Diego should additional capacity in City mains be required. MM Util-2 is not applicable because the downstream sewer main currently possesses adequate capacity to convey anticipated flows from the La Jolla Outpatient Pavilion. However, interagency coordination will continue as future projects implementing the LRDP are proposed, as required by MM Util-2.

The downstream sewer study is currently being updated to incorporate City of San Diego comments provided in writing in April 2026 and verbally at an August 2026 meeting to include revised City of San Diego flow factors, timeline assumptions, and pipe capacity criteria. While reducing City flow estimates significantly lowers total projected wastewater demand, applying the City's requested wet-weather peaking factor results in downstream capacity exceedances. UC San Diego is actively coordinating with the City to refine these peaking factors and capacity thresholds based on recent onsite metering data before revising and re-submitting the study; however, the ultimate recommendations of the sewer study are not anticipated to change and no University-funded or implemented off-site improvements are anticipated to be required to serve the Project. At the time of the drafting of this Addendum document, the Project would not lead to an exceedance of capacity at downstream sewer mains. Therefore,

[2] The University Community is the City of San Diego's Community Plan Area that borders the eastern and southern portions of the UC San Diego La Jolla Campus. The neighborhood's planning guidance document, the University Community Plan, was updated in 2024.

the Project is consistent with the utilities and service systems analysis of the LRDP EIR and SEIR.

b) Section 3.12.3.2 of the SEIR evaluated whether implementation of the LRDP would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. The SEIR analysis concluded that implementation of the LRDP would not result in insufficient water supplies from existing entitlements and resources. Impacts would be less than significant without mitigation.

   The LRDP, as amended, would not result in insufficient water supplies available to serve the Project from existing entitlements and resources, and would not require new or expanded entitlements. Implementation of the Project would increase potable water usage on the campus; however, it is within the scope of the LRDP, including Amendment #1, and therefore within the scope of the prior analysis on water supply. In addition, as described in Section 2.5.3 of this Addendum, the Project would seek to achieve LEED Gold status, through implementation of UC San Diego's Water Action Plan identifying long-term strategies for achieving sustainable water systems. This would be done in part by reducing water use through the installation of low-flow water fixtures and drought-tolerant plants throughout the Project buildings and landscaped areas. Therefore, the Project is consistent with the utilities and service systems analysis of the LRDP EIR and SEIR.

c) Section 3.12.3.3 of the SEIR evaluated whether implementation of the LRDP would be able to be accommodated by the wastewater treatment provider in addition to the provider's existing commitments. The SEIR concluded that potentially significant wastewater impacts would be mitigated to a less than significant level with implementation of **MM Util-1** (Downstream Sewer Assessment) and **MM Util-2** (Downstream Wastewater Capacity).

   Implementation of the Project would increase the amount of on-campus building space. Such increases would result in the generation and discharge of additional wastewater from the campus; the additional wastewater which would require treatment at the Point Loma Wastewater Treatment Plant (PLWTP). As noted above under item a, **MM Util-1** and **MM Util-2** coordination requirements aim to ensure the City is aware of UC San Diego demand on the City's downstream wastewater pipelines. Additionally, water conservation efforts implemented on campus, including the Project, would further reduce flow rates from the campus. Therefore, the Project is consistent with the utilities and service systems analysis of the LRDP EIR and SEIR.

d) Section 3.12.3.4 of the SEIR evaluated whether implementation of the LRDP would generate solid waste in excess of local or state standards, exceed the capacity of local infrastructure, or otherwise impair attainment of solid waste reduction goals. The SEIR

analysis concluded that Impacts related to solid waste generation would be less than significant.

Implementation of the LRDP would not result in inadequate capacity of solid waste facilities in the region such that construction of a new landfill or expansion of an existing landfill would be necessary. The Project would minimize its waste disposal needs and assist the state and local agencies in achieving their applicable solid waste management and diversion goals, including the UC Sustainable Practices Policy's zero waste goal. Therefore, the Project is consistent with the utilities and service systems analysis of the LRDP EIR and SEIR.

e) Section 3.12.3.5 of the SEIR evaluated whether implementation of the LRDP would comply with federal, state, and local management and reduction statues and regulations related to solid waste. The SEIR analysis concluded that Impacts related to solid waste regulation compliance would be less than significant.

Project implementation would require demolition, clearing/grubbing, and grading activities that would produce excavated soils, green waste, asphalt/concrete, and other construction and demolition waste. Operations of the Project would contribute additional non-recyclable/non-reusable waste which would be deposited at Miramar Landfill, after accounting for waste reduction and diversion. However, the Project would comply with applicable waste reduction and diversion programs as part of the campus-wide effort to meet the UC Sustainable Practices Policy's zero waste goal. As described in Section 2.5.3 of this Addendum, the Project would implement a three-stream bin system in both public and back-of-house areas of the proposed building to support solid waste diversion. The Project would also implement a Construction Waste Management Plan to divert construction and demolition waste. Therefore, the Project would minimize its waste disposal needs and assist the state and local agencies in achieving their applicable solid waste management and diversion goals. The Project is consistent with the utilities and service systems analysis of the LRDP EIR and SEIR.

Applicable SEIR Mitigation Measures: Util-1 (Downstream Sewer Assessment), Util-2 (Downstream Wastewater Capacity).

4.1.17 Wildfire

WILDFIRE			Project Effects Not Examined in Prior EIR & SEIR		
Would the Project…	Conclusion of Prior EIR & SEIR	Project Effects Examined within Prior EIR & SEIR	No Impact	New Less-than-Significant Impact or New Less-than-Significant Impact with Mitigation	New or Substantially More Severe Potentially Significant Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	Less than Significant with Mitigation	☒	☐	☐	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	Less than Significant	☒	☐	☐	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	Less than Significant	☒	☐	☐	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of run-off, post-fire slope instability, or drainage changes?	Less than Significant	☒	☐	☐	☐

a) Section 3.13.3.1 of the SEIR evaluated whether implementation of the LRDP would substantially impair an adopted emergency response plan or emergency evacuation plan. The SEIR analysis concluded that impacts would be potentially significant.

Therefore, MMs **HAZ-6** (Roadway Closure Notification) and **WF-1** (Project Review and Design Requirements) would be implemented to reduce impacts to a less than significant level.

The Project has been reviewed by the Campus Fire Marshal and Capital Program Management design review staff to ensure that adequate fire protection and emergency access is maintained, and that existing California Fire Code is respected. The Project has been designed to be fire-resistant, with designated shelter-in-place and emergency assembly areas. Per **MM WF-1**, the Project has been reviewed by EH&S Emergency Management & Business Continuity Division and the Campus Fire Marshal for compliance with all campus policies and guidelines related to emergency access, operations, and evacuation. The outpatient pavilion building has been designed to meet fire safety standards, as described in the Project's Fire and Life Safety Code Report (Coffman Engineers 2026; Appendix C). Emergency egress corridors and stairwells have been designed based on the specific uses of each building floor and occupancy, and defend in place strategies would be implemented to avoid moving patients incapable of quick egress to safe locations. Because the project is located within a High Fire Hazard Severity Zone and Very High Fire Hazard Severity Zone as defined by the state's Local Responsibility Area mapping, which the Campus Fire Marshal Office (CFMO) has adopted, the project requires a Fire Protection Plan (FPP), in accordance with **MM WF-1**. At the time this document was prepared, the FPP was being developed pursuant to **MM WF-1** and CFMO standards. The FPP will be completed in compliance with these requirements prior to campus approval of project construction drawings.

As required by **MM Haz-6**, UC San Diego would require the construction contractor to notify the Campus Fire Marshal and community to prevent conflicts with emergency access or evacuation routes during construction. Implementation of **MM Haz-6**, which requires the notification of the Campus Fire Marshal and campus community at large, as well as identification of any alternative emergency routes, prior to the start of construction, would reduce impacts to less than significant levels. Therefore, the Project would be consistent with the emergency evacuation analysis of the EIR.

b) Section 3.13.3.2 of the SEIR evaluated whether implementation of the LRDP would exacerbate fire risks and expose project occupants to pollutant concentrations from a wildfire or uncontrolled spread of a wildfire. The SEIR analysis concluded that impacts would be less than significant and no mitigation is required.

   As described in the Project's Fire and Life Safety Code Report, the Project would install sprinkler systems and fire resistant materials throughout to reduce the risk of the spread of fire. The Project site is not located adjacent to large open space areas or slopes that would exacerbate risks. Therefore, the project would be consistent with the evaluation of exposure to wildfire pollutants presented in the SEIR.

c) Section 3.13.3.3 of the SEIR evaluated whether implementation of the LRDP would require the installation or maintenance of associated infrastructure that may exacerbate fire risk or result in temporary or ongoing impacts to the environment. The SEIR analysis concluded that impacts would be less than significant and no mitigation is required.

   Installation and/or maintenance associated with new infrastructure would be necessary for the Project. However, this would not exacerbate fire risk due to its location within the campus where fire protection measures, including fuel management zones and building review by the Campus Fire Marshal, are implemented. Any temporary or ongoing impacts to the environment resulting from the installation and maintenance of infrastructure are part of ongoing operations and projected future development of the campus and therefore evaluated under the LRDP EIR. Therefore, the Project would not result in any new significant environmental effects regarding installation or maintenance of associated infrastructure. The Project is consistent with the SEIR.

d) Section 3.13.3.4 of the SEIR evaluated whether implementation of the LRDP would expose people or structures to significant risks as a result of runoff, post-fire slope instability, or drainage changes. The SEIR analysis concluded that impacts would be less than significant and no mitigation is required.

   Topography within the UC San Diego campus consists of relatively flat to gently sloping marine terraces interspersed with steep canyons and valleys. The La Jolla Campus (including SIO) is in Flood Zone X, which is outside of the 100-year and 500-year flood hazard areas or any County-identified flood hazard areas. Additionally, as described in Section 3.13.3.4 of the SEIR, LRDP development projects are located outside of known landslide areas and are required to prepare geotechnical investigations to ensure incorporation of slope stabilization and drainage/stormwater management features and California Building Code Compliance. The Project is located within the La Jolla campus and is within the scope of development evaluated in the SEIR; therefore, it would not exacerbate flooding or landslide risk compared to what was evaluated in the SEIR. Therefore, the Project is consistent with the SEIR's evaluation regarding downstream or down slope flooding.

Applicable SEIR Mitigation Measures: Haz-6 (Roadway Closure Notification). WF-1 (Project Review and Design Requirements)

5 APPLICABLE MITIGATION MEASURES

The following mitigation measures from the certified LRDP EIR and SEIR Mitigation Monitoring and Reporting Program (MMRP) would be applicable to the impacts associated with the Project. No new significant impacts or increased severity in impacts that were not analyzed in the LRDP EIR have been identified; therefore, no additional project-specific mitigation is required.

AQ-2B: Minimize Off-Road Construction Equipment Emissions. UC San Diego shall require by contract specification that all diesel fired construction equipment, equal to or greater than 50 horsepower, meet, at a minimum, the Tier 4 Final California Air Resources Board Off Road Compression Ignition Diesel Engine Standards or equivalent.

AQ-2C: Electric Landscape Equipment. A minimum of 80 percent of landscape equipment utilized on campus shall be electric powered.

Bio-2D: Raptor Nest Avoidance. If project construction is scheduled to commence during the raptor nesting season (generally January 15 through July 31), pre-construction surveys for raptor nests shall be performed by a qualified biologist within 500 feet of project construction activities no more than seven days prior to the initiation of construction. Construction activities within 500 feet of an identified active raptor nest shall not commence during the breeding season until a qualified biologist determines that the nest is no longer active and any young birds in the area have adequately fledged and are no longer reliant on the nest. Trees with inactive nests can be removed outside the breeding season without causing an impact.

Bio-2E: General Avian Nest Avoidance. No grubbing, trimming, or clearing of vegetation (including brush management) from project sites shall occur during the general avian breeding season (February 15 through August 31). If grubbing, trimming, or clearing cannot feasibly occur outside of the general avian breeding season, a qualified biologist shall perform a pre-construction nesting bird survey no more than seven days prior to the commencement of vegetation clearing or grubbing to determine if active bird nests are present in the affected areas. Should an active migratory bird nest be located, the project biologist shall direct vegetation clearing away from the nest until it has been determined by the project biologist that the young have fledged, or the nest has failed. If there are no nesting birds (includes nest building or other breeding/nesting behavior) within the survey area, clearing, grubbing, and grading shall be allowed to proceed.

Bio-2H: Bird-Safe Building Standards. Project design plans for proposed development on campus shall comply with bird-safe building standards for façade treatments, landscaping, lighting, and building interiors, as follows:

i. For glass treatments up to the third floor (approximately 36 feet) or to the height of adjacent vegetation (whichever is taller), the amount of untreated glass shall be less than 35 percent of the building façade.

   a) The percentage shall be calculated by dividing the square footage of glass by the building façade area, where the building façade area is the width of the façade times the height to the third floor or adjacent vegetation.

ii. For glass treatments up to the third floor (approximately 36 feet) or to the height of adjacent vegetation (whichever is taller), that do not meet requirement (A) above, glass shall be treated

to create visual barriers for birds. Acceptable glazing treatments include fritting; netting; permanent stencils; frosted, non-reflective or angled glass; exterior screens; decorative latticework or grills; physical grids placed on the exterior of glazing; ultraviolet patterns visible to birds; and window awnings, shades, or shutters; or similar treatments.

a) Where applicable, vertical elements within the treatment pattern should be at least one quarter (1/4) inch wide, at a maximum spacing of four inches;

b) Where applicable, horizontal elements within the treatment pattern should be at least one eighth (1/8) inch wide, at a maximum spacing of two inches; and

c) Non-reflective glazing shall have a "Reflectivity Out" coefficient of thirty percent or less. That is, the fraction of radiant energy that is reflected from glass or glazed surfaces shall not exceed 30 percent.

iii. Building and site design shall eliminate or reduce high-threat features, such as enclosed glass walkways, glass railings, glass/transparent corners, fly-through conditions (i.e., where birds have a clear line of sight to sky or vegetation on the other side of the glass), "bird traps" (e.g., glass/windowed courtyards, interior atriums, windows installed opposite each other), and similar features.

iv. Trees and other vegetation shall be sited to avoid or obscure reflection on building façades such as, for example, not siting vegetation directly adjacent to reflective surfaces, and to avoid creating an effect where landscaping funnels birds toward glass (e.g., walkways, passageways, edges).

v. Buildings shall be designed to minimize light spillage and maximize light shielding to the maximum feasible extent per the following standards:

a) Nighttime lighting shall be minimized to levels necessary to provide pedestrian security.

b) Building lighting shall be shielded and directed downward.

c) Up-lighting and use of event "searchlights" or spotlights are prohibited.

d) Landscape lighting shall be limited to low-intensity and low-wattage lights.

e) Red lights shall be limited to only those necessary for security and safety warning purposes.

f) Artificial nighttime light from interior lighting shall be minimized through the utilization of automated on/off systems and motion detectors.

CuI-1A: Compliance with the Standards. When a development project is initiated, UC San Diego shall first determine, as early as possible in the planning process, whether the project may have a substantial adverse impact on a historical resource (individual resource, district, or landscape) based on information contained in this SEIR and its appendices. If the project may result in impacts to an individual historical resource, then UC San Diego shall retain the services of a qualified historic architect. The UC San Diego-retained historic architect shall be tasked with determining whether the project meets the Secretary of the Interior's Standards for Rehabilitation, as defined in 36 CFR Part 67.7 as described below.

i. The consultant shall evaluate the project and prepare a memorandum or equivalent level of documentation indicating whether the project meets the Standards. If the project meets the Standards, then any potential impacts are presumed fully mitigated per the CEQA Guidelines,

and no additional action is necessary.

ii. If a project involving historical resources does not meet the Standards, then UC San Diego shall attempt to bring the project into compliance with the Standards. UC San Diego shall consider means of reducing the impact to a level of less than significant by redesigning or modifying the project, or undertaking other measures deemed feasible and prudent to meet the Standards as noted in Cul-1B.

Note: Compliance with standards as required by Cul-1A was determined upon project initiation and it was determined that impacts to individual historic resources requiring a qualified historic architect would occur.

Cul-2A: Evaluation. As early as possible in the project planning process, UC San Diego shall define the project's Area of Potential Effects (APE) for archaeological resources based on the extent of ground disturbance and site modification anticipated for the project. If, based on the APE, it is determined that the project may affect a recorded significant or potentially significant archaeological resource, then UC San Diego shall implement the measures listed below. When determining if a project may affect a recorded archaeological resource that has undefined boundaries, a buffer of appropriate size for the resource shall be considered.

i. If the resource or a portion thereof has been determined to be significant, UC San Diego shall implement mitigation measure Cul-2B;

ii. If a determination has not been made regarding the resource's significance (or a portion thereof), the locus shall be evaluated by a qualified UC San Diego-retained archaeologist through testing and other appropriate means, who will determine if it qualifies as a unique archaeological resource under the criteria of CEQA Guidelines Section 15064.5. This evaluation shall also determine the extent of the resource, if not already established. The qualified archaeologist shall be responsible for submitting appropriate records to the SCIC at San Diego State University and the San Diego Museum of Us.

Note: Evaluation of Cul-2A was determined upon project initiation and it was determined that the project would not affect a recorded significant or potentially significant archaeological resource requiring further measures.

Geo-1: Construction Monitoring for Paleontological Resources. Grading and excavation equating to 1,000 cubic yards or more at depths of 10 feet or greater within highly sensitive geologic formations (i.e., Ardath Shale, Scripps Formation, and Old Paralic Deposits) shall require monitoring by a qualified paleontologist, including the following measures:

i. Prior to beginning any work that requires paleontological monitoring:

   a. a preconstruction meeting shall be held that includes the qualified paleontologist, Construction Manager and/or Grading Contractor, and other appropriate personnel so the qualified paleontologist can make comments and/or suggestions concerning the monitoring program to the Construction Manager and/or Grading Contractor.

   b. the qualified paleontologist shall (at that meeting or subsequently) submit to the Project Manager a copy of the site/grading plan (reduced to 11 x 17 inches) that identifies areas to be monitored as well as areas that may require delineation of grading limits.

   c. the qualified paleontologist shall also coordinate with the Project Manager on the construction schedule to identify when and where monitoring is to begin and to specify the start date for monitoring.

ii. The qualified paleontologist shall document monitoring activity on a standardized form. A record of daily activity shall be sent to Campus Planning and the Project Manager each month.

iii. The qualified paleontologist shall be present initially during all earth-moving activities. After 50 percent of the excavations are complete within the unit, if no significant fossils have been recovered, the level of monitoring may be reduced or suspended entirely at the qualified paleontologist's discretion and in consultation with Campus Planning. These deposits may be included in those identified as Undifferentiated Tertiary Sedimentary deposits in Figure 3.5-1.

iv. Discoveries

a. Discovery Process – In the event of a discovery, and when requested by the qualified paleontologist, the Project Manager shall be contacted and shall divert, direct, or temporarily halt ground-disturbing activities in the area of discovery to allow for preliminary evaluation of potentially significant paleontological resources. The paleontologist shall also immediately notify Campus Planning of such findings at the time of discovery.

b. Determination of Significance – The significance of the discovered resources shall be determined by the paleontologist in consultation with the Project Manager and Campus Planning, who must concur with the evaluation before grading activities will be allowed to resume.

c. Documentation and Treatment of Finds – Based on the scientific value and/or uniqueness of the find, the qualified paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the fossil. If treatment and salvage are required, recommendations shall be consistent with Society of Vertebrate Paleontology 2010 guidelines and currently accepted scientific practice. Work in the affected area may resume once the fossil has been assessed and/or salvaged and a paleontological monitor is present.

v. Notification of Completion – The paleontologist shall notify Campus Planning in writing of the end date of monitoring.

vi. Handling and Curation of Significant Paleontological Specimens and Letter of Acceptance – The paleontologist shall ensure that all significant fossils collected are appropriately prepared and permanently curated with an appropriate institution, and that a letter of acceptance from the curation institution has been submitted to Campus Planning.

vii. Final Results Reports (Monitoring and Research Design and Recovery Program) – Prior to completion of the project, two copies of the Final Results Report (even if no significant resources were found) and/or evaluation report, if applicable, which describe the results, analysis, and conclusions of the Paleontological Monitoring Program (with appropriate graphics) shall be submitted to Campus Planning for approval.

Haz-4A: During project planning, EH& S shall be consulted in order to identify if any past contamination, USTs, ASTs, or other contamination could potentially occur in areas to be impacted. EH&S will consider the cases on file at the County of San Diego DEH and information on historical uses in the area to be impacted such as old maps and photos. If EH&S determines that there is limited potential for contamination to occur on site, no additional mitigation is necessary. If it is determined that contamination has potential to exist on a project site, Mitigation Measure Haz-4B shall be implemented.

Haz-4B: If contamination exists on a proposed project site and if it poses a risk to human health or the environment, actions shall be taken prior to any construction, pursuant to applicable regulations, to remove or otherwise remediate the contamination through appropriate measures such as natural attenuation, active remediation, and engineering controls. Assessment and remediation activities shall incorporate the following conditions:

i. All assessment and remediation activities shall be conducted in accordance with a work plan that is approved by the regulatory agency having oversight of the activities.

ii. It may be necessary to excavate existing soil within the project site, or to bring fill soils into the site from off-site locations. At sites that have been identified as being contaminated or where soil contamination is suspected, appropriate sampling and classification are required prior to disposal of excavated soil. Contaminated soil shall be properly disposed of at an approved off-site facility. Fill soils also shall be sampled to ensure that imported soil parameters are within acceptable levels.

iii. Caution shall be taken during excavation activities near existing groundwater monitoring wells, so that they are not damaged. Existing groundwater monitoring wells may have to be abandoned and reinstalled if they are located in an area that is undergoing redevelopment.

Haz-4C: In the event that USTs, not identified in consultation with EH&S, or undocumented areas of contamination are encountered during construction or redevelopment activities, work shall be discontinued until appropriate health and safety procedures are implemented. Either the County of San Diego DEH or the San Diego RWQCB, depending on the nature of the contamination, must be notified regarding the contamination. Each agency and program within the respective agency has its own mechanism for initiating an investigation. The appropriate program (e.g., the DEH Local Oversight Program for tank release cases, the County of San Diego DEH Voluntary Assistance Program for non-tank release cases, the RWQCB for non-tank cases involving groundwater contamination) will be selected based on the nature of the contamination identified. The contamination remediation and removal activities will be conducted in accordance with pertinent regulatory guidelines, under the oversight of the appropriate regulatory agency.

Haz-6: Roadway Closure Notification. In the event that the construction of a project requires a lane or roadway closure on campus, prior to construction the contractor and/or Project Manager shall ensure that the UC San Diego Fire Marshal and campus community at large are notified. If determined necessary by the UC San Diego Fire Marshal, local emergency services will be notified by the Fire Marshal of the closure. If road closures would affect emergency routes, alternative routes shall be identified and directional signage provided.

Noi-1F: Construction Noise Screening Distance. If project construction activities resulting from implementation of the 2018 LRDP are proposed less than 150 feet of NSLU, or may involve the use of vibratory or impact-type pile drivers, impact-type equipment (including but not limited to: clam shovels, hydra break rams, hoe rams, and jackhammers), concrete saws, pavement scarifiers, sand blasters, or vibrating hoppers, mitigation shall be integrated into the project's construction specifications to minimize temporary noise caused by construction activities to less than significant levels:

i. Require the construction contractor to work with proper administrative controls on equipment operation periods so as not to exceed a 12-hour average sound level of 75 dBA L_{eq} at any NSLU between 7:00 a.m. and 7:00 p.m. Monday through Saturday, except for infrequent, extenuating circumstances when nighttime work is required for short periods of time, such as to

accommodate concrete pours, to reduce conflicts with traffic or operation of nearby uses, and other case-by-case scenarios. These activities shall be approved by UC San Diego Campus Planning and other applicable campus departments prior to occurrence.

ii. Outfit construction equipment with properly maintained, manufacturer-approved or recommended sound abatement means on air intakes, combustion exhausts, heat dissipation vents, and the interior surfaces of engine hoods and power train enclosures.

iii. Locate (to the extent practical) steady-state, continuously operating stationary construction equipment such as generators, pumps, and air compressors at least 150 feet from nearby NSLUs. If this screening distance cannot be achieved in the field, additional attenuation would be required. This may include deployment of temporary noise walls or acoustical blankets/curtains that would block direct sound paths between the operating equipment and the receptor(s) of concern.

iv. Position (to the extent practical) construction laydown and vehicle staging areas as far from NSLUs as feasible.

v. Inform, whenever possible and preferably with at least a two week advanced notice, all neighboring NSLUs expected to be exposed to elevated noise levels that a construction project would commence.

vi. Where NSLU are expected to be less than 100 feet away, schedule anticipated loud construction activities, which could involve impact-type equipment and processes such as pile driving, jackhammering, pavement breaking, compactors, etc., to not coincide with any final exams week of classes and recognized holidays. Adjust hours or days of the construction activity to occur before or after these noise-sensitive periods of the UC San Diego academic year.

Noi-2B: Construction Vibration Screening Distance. Prior to the commencement of construction of projects that would involve heavy earth-moving equipment or impact-type pile driving within the applicable screening distance per Table 3.7-9, or if the existing receptor involves activities that are vibration-sensitive at a level more stringent than VC-A as appearing in Table 3.7-8, UC San Diego shall retain a qualified acoustician to prepare a construction vibration mitigation program to be implemented by the construction contractor(s). The construction vibration mitigation program shall identify and require measures to reduce vibration resulting from construction activities to the maximum extent practicable, as well as detail construction activity notification and monitoring processes that include, but are not limited to, the following:

i. Vibration monitoring shall be performed during construction to establish the level of vibration produced by high impact activities. Monitoring shall be conducted when any construction activity would occur within the above-described screening distances noted in Table 3.7-9. Monitoring shall be conducted using portable vibration-monitoring instrumentation that provides a calibrated record of local ground movement/accelerations. If construction vibration exceeds the appropriate threshold, work should be stopped and resumed when alternative work methods and equipment can be implemented. Baseline vibration levels at specified locations shall be established prior to the construction activity.

ii. Building occupants of vibration-sensitive land uses within the applicable screening distance per Table 3.7-9 shall be notified at least two weeks prior to the start of construction.

Util-1: Downstream Sewer Assessment. Within one year following approval of the Update to the LRDP and prior to proposed development within Sewer Basins 100, 200, 300, 400, or 500, a sewer assessment shall be completed to analyze the capacity of downstream sewer mains owned and operated by the City of San Diego. Specifically, UC San Diego shall conduct an assessment, using applicable City of San Diego guidelines, of the City's downstream public sewer system infrastructure, primarily the City's 24-inch diameter sewer main (UCSD Trunk Sewer) within Gilman Drive. This assessment shall consider potential capacity constraints and ability to serve buildout of the Update to the LRDP in conjunction with existing and anticipated development within the City of San Diego. If the additional sewage flows expected from implementation of the Update to the LRDP exceed the existing or planned capacity of the downstream City of San Diego sewer main or other associated sewer infrastructure, **MM Util-2** shall be implemented.

Note: As discussed in Section 4.1.16, Util-1, which is a programmatic mitigation measure, an initial draft of the sewer study has been completed; however, the study recommends continued coordination with the City of San Diego on a project-by-project basis, so coordination remains ongoing.

WF-1: Project Review and Design Requirements. During the planning and design phase of a future development project, the Project Manager (CPM or FM offices) shall ensure that the project design has been reviewed by the CFMO and UC San Diego EH&S - Emergency Management & Business Continuity Division for compliance with applicable campus plans, policies, and guidelines related to emergency access, operations, and evacuation, including, but not limited to, the CFMO Guidelines, Campus Fire Protection Landscape Guidelines, and Campus Fire Severity Hazard Area & Wildland Urban Interface Zone Building Requirements. For projects located within a High or VHFHSZ, as identified in the map adopted by the State Fire Marshal, an FPP shall be prepared, reviewed, and accepted by the FAHJ and CFMO pursuant to the requirements of the CFMO Guidelines prior to approval of the project. The FPP shall include, but not be limited to, review of emergency services availability and travel time, access for emergency services and evacuation of occupants, firefighting water supply, fire sprinkler system, ignition resistant construction, and defensible space and landscaping/vegetation management, The Project Manager must obtain written verification of compliance prior to finalizing design plans. The approved plans shall be incorporated into the project's construction documents to ensure implementation.

6 REFERENCES

The primary sources of information for this project-level Addendum are the LRDP and its EIR, and Amendment #1 to the LRDP and its SEIR, including all relevant technical studies and references noted in those documents, which are incorporated by reference herein. Additional Project-specific information has been added below to supplement the information in those primary references.

Coffman Engineers. 2026. Fire & Life Safety Code Report. April 20.

Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment Manual. September.

Latitude 33. 2026. Drainage Study for UC San Diego La Jolla Outpatient Pavilion. April 20.

2025. 2018 LRDP Update Sewer Study. May.

Ninyo & Moore. 2025. Geotechnical Evaluation 5671 Medical Center La Jolla Outpatient Pavilion. August 14.

UC San Diego. 2018a. 2018 Long Range Development Plan. November.

2018b. 2018 Long Range Development Plan Environmental Impact Report (EIR). November.

2025a. Update to the 2018 Long Range Development Plan (Amendment #1). July.

2025b. 2018 Long Range Development Plan Subsequent Environmental Impact Report (SEIR). July.

2026. UC San Diego Transportation Services. EV Charging Stations at UC San Diego. https://transportation.ucsd.edu/commute/ev-stations.html. July.

Appendix A

Geotechnical Evaluation

Geotechnical Evaluation

5671 Medical Center La Jolla Outpatient Pavilion UC San Diego

La Jolla, California

UC SAN DIEGO Project No. 5671

UC San Diego

9500 Gilman Drive, MC 0916 | La Jolla, California 92093

August 14, 2025 | Project No. 110064001



Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

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Geotechnical Evaluation
5671 Medical Center La Jolla Outpatient Pavilion
UC San Diego
La Jolla, California
UC SAN DIEGO Project No. 5671

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CONTENTS

1 INTRODUCTION 1
2 SCOPE OF SERVICES 1
3 SITE DESCRIPTION AND HISTORY 2
4 PROJECT DESCRIPTION 3
5 FIELD EXPLORATION 3
5.1 Subsurface Exploration 3
5.2 ReMi Survey 4
5.2.1 Field Methods 4
5.2.2 Data Processing and Modeling 5
6 GEOTECHNICAL LABORATORY TESTING 5
7 ENVIRONMENTAL ANALYTICAL TESTING 5
8 GEOLOGIC AND SUBSURFACE CONDITIONS 6
8.1 Regional Geologic Setting 6
8.2 Site Geology 7
8.2.1 Encountered Pavement and Flatwork Sections 7
8.2.2 Fill (Qaf) 7
8.2.3 Very Old Paralic Deposits (Qvop) 8
8.2.4 Scripps Formation (Tsc) 8
8.3 Groundwater 8
8.4 Hydrologic Soil Group 9
9 GEOLOGIC HAZARDS 9
9.1 Faulting and Seismicity 9
9.1.1 Seismic Site Class 11
9.1.2 Surface Ground Rupture 11
9.1.3 Strong Ground Motion 11
9.1.4 Liquefaction and Seismically Induced Settlement 12
9.2 Tsunamis and Seiches 13
9.3 Flood and Dam Inundation Hazards 13
9.4 Landsliding and Slope Stability 13
9.5 City of San Diego Seismic Safety Study 13

10 ENVIRONMENTAL SOIL CONDITIONS 14
11 CONCLUSIONS 15
12 RECOMMENDATIONS 16
12.1 Earthwork 16
12.1.1 Pre-Construction Conference 17
12.1.2 Site Preparation 17
12.1.3 Excavation Characteristics 17
12.1.4 Temporary Excavations 18
12.1.5 Temporary Shoring 18
12.1.6 Remedial Grading for Building Pad 19
12.1.7 Remedial Grading for Retaining Walls and Screen Walls 22
12.1.8 Remedial Grading for Flatwork and Pedestrian Hardscape 22
12.1.9 Remedial Grading for Vehicular Pavements 22
12.1.10 Fill Material 23
12.1.11 Fill Placement and Compaction 24
12.1.12 Pipe Bedding and Modulus of Soil Reaction (E') 25
12.1.13 Pipe Zone Backfill 25
12.1.14 Utility Trench Zone Backfill 25
12.1.15 Thrust Blocks 26
12.2 Foundations 26
12.2.1 Shallow Foundations Bearing on Compacted Fill 26
12.2.2 Shallow Foundations Bearing on Competent Formation 26
12.2.3 Mat Foundations Bearing on Compacted Fill 27
12.2.4 Mat Foundations Bearing on Competent Formation 27
12.2.5 Lateral Resistance 28
12.2.6 Static Settlement 28
12.3 Equipment Pads 28
12.4 Canopy/Shade Structure and Light Pole Foundations 29
12.4.1 Lateral Resistance – CIDH Piles 30
12.5 Retaining Walls and Screen Walls 30
12.6 Interior Slabs-on-Grade 31
12.7 Concrete Flatwork and Pedestrian Hardscape 31
12.8 Corrosion 32
12.9 Concrete 32
12.10 Drainage 32

12.11 Preliminary Pavement Design 33
12.11.1 Preliminary Flexible Pavement Design 33
12.11.2 Preliminary Rigid Pavement Design 34
12.12 Permanent Stormwater Best Management Practices (BMP) 34
12.13 Environmental Soil Handling 35
13 PLAN REVIEW AND CONSTRUCTION OBSERVATION 35
14 LIMITATIONS 36
15 REFERENCES 38

TABLES

1 – Encountered Pavement or Flatwork Section Thicknesses 7
2 – ASCE 7-22 Seismic Design Parameters 12
3 – Recommended Preliminary Flexible Pavement Sections 33
4 – Recommended Preliminary Rigid Pavement Sections 34

FIGURES

1 – Site Location
2 – Boring Locations
3 – Metal Concentrations with Exceedances
4 – Soil Sample Analytical Results – TPH
5 – Geology
6 – Fault Locations
7A – Geologic Cross Section A-A’
7B – Geologic Cross Section B-B’
8 – Geologic Hazards
9 – Inactive, Potentially Active, Activity Unknown Fault Zone
10 – Acceleration Response Spectra
11 – Lateral Earth Pressures for Braced Excavation
12 – Lateral Earth Pressures for Temporary Cantilevered Shoring
13 – Thrust Block Lateral Earth Pressure Diagram
14 – Lateral Earth Pressures for Yielding Retaining Walls
15 – Lateral Earth Pressures for Restrained Retaining Walls
16 – Retaining Wall Drainage Detail

APPENDICES

A – Boring Logs

B – Refraction Microtremor (ReMi) Survey

C – Geotechnical Laboratory Testing

D – Environmental Analytical Laboratory Reports and Tables

1 INTRODUCTION

In accordance with your request, our proposal dated April 4, 2025, and Agreement No. 5671/PSA-00004 dated April 21, 2025, we have performed a geotechnical evaluation and limited environmental soil sampling and analysis for the proposed 5671 Medical Center La Jolla (MCLJ) Outpatient Pavilion project at MCLJ campus UC San Diego in La Jolla, California (Figure 1). This report presents the results of our field exploration and laboratory testing, limited environmental sampling and analysis, our conclusions regarding the geotechnical conditions at the site, and our recommendations for the design and earthwork construction of this project and the handling of contaminated and potentially contaminated soils.

2 SCOPE OF SERVICES

Our scope of services included the following:

- Reviewing readily available geologic and seismic hazard data and other background information for the area.
- Coordinating with UC San Diego to prepare and submit an Advance Notice of Disruption (ANOD) for our field work.
- Performing a field reconnaissance of the site, including marking boring locations for utility clearance by Underground Service Alert, UC San Diego personnel, and a third-party utility locator.
- Coring existing pavements at boring locations to provide access to the subsurface materials.
- Performing a surface geophysical survey including one Refraction Micro-tremor (ReMi) survey line to evaluate the change in subsurface shear-wave velocity with respect to depth for the purpose of developing a Site Class as outlined in American Society for Civil Engineers (ASCE) Publication 7-22.
- Drilling, logging, and sampling of 19 exploratory borings using manual methods and truck-mounted drilling equipment with hollow-stem augers to depths up to approximately 19.4 feet. Bulk, continuous core, and in-place samples of the encountered soils were collected and transported to our in-house geotechnical laboratory for testing. Additional samples were also collected for environmental testing. Borings were backfilled following drilling.
- Performing continuous core and/or standard penetration test (SPT) sampling in eight of the exploratory borings in the western portion of the project site in order to evaluate the potential for a mapped concealed fault in the area to impact the project.
- Performing geologic logging of the continuous core samples to evaluate for the presence of a concealed fault.
- Performing geotechnical laboratory testing on selected soil samples that included an evaluation of in-situ moisture content and dry density, gradation by sieve analysis, Atterberg limits, shear strength, expansion index, Proctor density, soil corrosivity (pH, resistivity, chlorides and sulfates), and R-value.

- Performing environmental analytical testing on soil samples in general accordance with UC San Diego Soil Management Policy (Policy 516-17) for Total Petroleum Hydrocarbons (TPH) and Title 22 Metals. Generally, samples were collected at depths of approximately 2 feet, 5 feet, and approximate 5-foot intervals thereafter to the total depth explored, but no more than 10 feet into formational materials.

- Compiling and performing an engineering analysis of the information and data obtained from our background review, subsurface evaluation, and geotechnical laboratory and analytical testing.

- Preparing this report presenting our findings, conclusions, and recommendations for the design and construction of the proposed improvements. The report also includes a limited environmental section that summarizes the field activities, sample analysis, and analytical results and provides conclusions and recommendations with regards to the potential handling of the soil for construction of the proposed project.

3 SITE DESCRIPTION AND HISTORY

The proposed 5671 MCLJ Outpatient Pavilion project site is located at Lot P760 and Lot P707 on the existing UC San Diego MCLJ campus in La Jolla, California (Figure 1). Lots P760 and P707 are bounded by the Blue Line Light Rail Trolley and Campus Point Drive to the north, UC San Diego East Campus Utility Plant to the east, East Medical Center Drive to the south, and Campus Point Drive to the west. As currently proposed, the MCLJ Outpatient Pavilion structure is planned within Lot P760 (i.e., the southern parking lot) with some associated surface improvements in the southern portion of P707 (i.e., the northern parking lot). The general site coordinates are approximately 32.88030° North latitude and 117.22261° West longitude.

Based on historic aerial images (Google, 2025), in the early 1990's the overall project site consisted of the previous Campus Point Drive alignment, landscaping, and undeveloped lots. Around 1996, the northern portion of the site was graded and paved to provide parking. Then around 2002, the southern portion of the site was graded and paved for parking. This configuration and usage was maintained until 2020 when Campus Point Drive was realigned. Following the realignment of Campus Point Drive, Lot P707 was graded and paved in 2021. Lots P707 and P760 have remained parking lots until around 2023 when portions of the lots were converted to a construction yard for nearby UC San Diego projects. Then in late 2024 to early 2025 Lot P760 was mostly demolished as part of the East Campus Loop Road project (UC San Diego Project No. 5548).

At the time of our services, the approximately 1½-acre Lot P760 was undergoing grading and construction activities and was unsurfaced, with the exception of the northeast portion which still consisted of asphalt concrete (AC) paved parking stalls being used as construction storage and staging. Ground elevations across Lot P760 generally sloped gently to the southwest from approximately 355 feet above mean sea level (MSL) along the eastern side down to approximately 345 feet above MSL in the southwest corner. Given the current construction activities in Lot P760,

the site grades may have changed since the time of our subsurface evaluation. The approximately 2-acre Lot P707 was AC paved and being used as an active parking lot with a construction yard along the southern edge. Ground elevations across Lot P707 generally sloped gently to the west from approximately 360 feet above mean sea level (MSL) along the eastern side down to approximately 350 feet above MSL along the western side. An existing stormwater bioswale system is situated along the western side of the lots adjacent to Campus Point Drive.

4 PROJECT DESCRIPTION

The 5671 MCLJ Outpatient Pavilion project is currently in design and specific improvements, plans, details, and locations were not available for our review and use. However, based on discussions with UC San Diego and the project team, the project is anticipated to include a multi-story, mid-rise (4 to 6 story) outpatient pavilion building, retaining walls, underground utilities, pavements, flatwork, and permanent stormwater BMPs. According to the Request for Qualifications (RFQ) dated February 24, 2025, the preliminary program assessment indicated that the outpatient pavilion building would be on the order of 180,000 gross square feet overall and would be compliant with California Department of Health Care Access and Information (HCAI) Level 3.

The locations of the proposed improvements/structures are not known to us at this time. However, as previously noted, it is anticipated that the proposed outpatient pavilion building will be situated within the northern portion of existing Lot P760 and associated surface improvements (e.g., pavements, flatwork, site walls) and underground utilities located to the north and south of the proposed outpatient pavilion structure. It is anticipated that the new structure will be supported on shallow foundations. Additionally, based on discussions with the project team and as a result of the sloping/terraced nature between Lot P760 and Lot P707, the proposed outpatient pavilion structure may have a partial below-grade basement level with a walk-out entrance at the Lot P760 level.

5 FIELD EXPLORATION

Our field exploration activities included a subsurface exploration program and a geophysical survey. Descriptions of these tasks are provided in the following sections.

5.1 Subsurface Exploration

Our subsurface exploration was performed between June 2 and June 4, 2025 and consisted of drilling, logging, and sampling of 19 exploratory borings (B-1 through B-19). The purpose of the borings was to evaluate the subsurface conditions and to collect soil samples for laboratory testing. Prior to drilling, the boring locations were cleared of underground utility conflicts by participating members of USA and by a private utility locator.

Borings B-1 through B-15 were drilled to depths up to approximately 19.4 feet using a truck-mounted drill rig equipped with 8-inch diameter, hollow stem-augers. Borings B-16 through B-19 were excavated using a manual 3½-inch diameter hand auger to depths up to approximately 2½ feet. Ninyo & Moore logged the borings in general accordance with the Unified Soil Classification System (USCS) and ASTM International (ASTM) Test Method D 2488 by observing auger cuttings and samples. Samples of the encountered materials were collected at selected intervals and transported to our in-house geotechnical laboratory for testing and to an outside analytical testing laboratory to be analyzed for TPH and Title 22 Metals in accordance with UC San Diego Soil Management Policy (Policy 516-17). The approximate locations of the exploratory borings are shown on Figure 2 and the boring logs are presented in Appendix A.

As previously indicated, continuous core and/or SPT sampling was performed in eight exploratory borings in the western portion of the project area to evaluate the potential for a mapped concealed fault in the area to impact the proposed project. Continuous core samples and continuous SPT samples were collected and logged by a geologist. The results of this sampling are discussed further in the Faulting and Seismicity section of this report.

5.2 ReMi Survey

As part of our field exploration, a geophysical ReMi survey was performed to evaluate the shear wave velocity profile of the upper 100 feet of soil to assign the Seismic Site Class. Our ReMi survey was performed on May 21, 2025 and consisted of a single survey line in the southeastern portion of the site. The location of the ReMi survey is shown on Figure 2.

The ReMi survey utilized the passive seismic method of Microtremor Array Measurements (MAM) and consisted of one linear profile of seismic data collection, which was generally oriented east to west and located in the southern portion of Lot P760. The method provided a shear wave velocity model to a depth of approximately 100 feet (30 meters), which was then used to calculate the average shear wave velocity (V_{s30}) to select the Seismic Site Class. The following sections provide a summary of the methods and analyses used in our study. The seismic model results are provided in Appendix B.

5.2.1 Field Methods

A Geode 24–Channel Seismograph was used for MAM surveying, with 4.5 Hertz (Hz) vertical component geophone placement every 10 feet for a total profile length of 230 feet. Approximately 40 records were collected, with a record length of 30 seconds and 2 millisecond sample intervals. The field data were digitally recorded in SEG2 format, reviewed in the field for data quality, and saved electronically.

5.2.2 Data Processing and Modeling

The MAM seismic data were processed using SeisImager/SW Analysis of Surface Waves software. The dispersive characteristics of surface waves are used to evaluate the subsurface velocity at depth. Longer wavelength (longer-period and lower-frequency) surface waves travel deeper and thus contain more information about deeper velocity structure. Shorter wavelength (shorter-period and higher-frequency) surface waves travel shallower and thus contain more information about shallower velocity structure. The dispersion is dependent on the material properties, such as surface wave velocity, relative material densities, and Poisson's ratio. An inversion is performed on the collected passive seismic shear wave records within SeisImager to produce a model of the variation in shear wave velocities with depth. The following data processing flow was used to calculate V_{s30} in accordance with ASCE 7-22 guidelines and equations.

- Collated records into list file and edited any bad channels or records;
- Applied 2D Spatial Auto Correlation (SPAC); using a linear array and 24 geophones at 4-meter spacing;
- Phase velocity frequency transformation from 2 to 35 Hz;
- Automated velocity picks of raw phase velocity were calculated and updated manually;
- Created an initial model and carried out a non-linear Least Squares Method (LSM) inversion to produce a final shear wave velocity model; convergence of the inversion was judged whether the model achieved an RMS <5% within 5-7 iterations;
- Calculated V_{s30} using final shear wave velocity model to be 1,456 feet per second (fps).

6 GEOTECHNICAL LABORATORY TESTING

Geotechnical laboratory testing of representative soil samples included an evaluation of in-situ moisture and dry density, gradation (sieve) analysis, Atterberg limits, shear strength, expansion index, Proctor density, soil corrosivity, and R-value. The results of the in-situ moisture content and dry density tests are presented on the boring logs in Appendix A. The results of the other geotechnical laboratory tests performed and a description of the test methods used are presented in Appendix C.

7 ENVIRONMENTAL ANALYTICAL TESTING

Soil samples collected for environmental analytical laboratory testing were submitted to Eurofins Calscience, a State-certified environmental testing laboratory. The samples were analyzed for TPH

extended range (C8-C40) by United States Environmental Protection Agency (EPA) method 8015M and Title 22 Metals by EPA methods 6010B/7471A. In addition, soil samples that contained total lead concentrations at or above 50 milligrams per kilogram (mg/kg) were additionally analyzed for soluble threshold limit concentration (STLC), and soil samples that contained total arsenic concentrations at or above 100 mg/kg additionally analyzed for the toxicity characteristic leaching procedure (TCLP). The environmental analytical laboratory reports are presented in Appendix D. Laboratory analytical results are summarized on Figures 3 and 4 along with on Table D-1 in Appendix D. The results of the analytical testing should be assumed to be representative of the materials at the sample location and concentrations extrapolated laterally and vertically to the next adjacent sample with analytical data below acceptable criteria.

8 GEOLOGIC AND SUBSURFACE CONDITIONS

Our findings regarding regional and site geology and groundwater conditions are provided in the following sections.

8.1 Regional Geologic Setting

The project area is located in the western San Diego County section of the Peninsular Ranges Geomorphic Province. This geomorphic province encompasses an area that extends approximately 900 miles from the Transverse Ranges and the Los Angeles Basin south to the southern tip of Baja California (Norris and Webb, 1990; Harden, 2004). The province varies in width from approximately 30 to 100 miles. In general, the province consists of rugged mountains underlain by Jurassic metavolcanic and metasedimentary rocks, and Cretaceous igneous rocks of the southern California batholith. The portion of the province in western San Diego County that includes the project area consists generally of Quaternary-age surficial deposits, underlain by Tertiary- and Cretaceous-age sedimentary rocks (Figure 5).

The Peninsular Ranges Province is traversed by a group of sub-parallel faults and fault zones trending roughly northwest. Several of these faults are considered to be active. The Elsinore, San Jacinto and San Andreas faults are active fault systems located northeast of the project area and the Rose Canyon, Coronado Bank, San Diego Trough, and San Clemente faults are active faults located west of the project area. The location of the site relative to these regional faults is shown on Figure 6. Major tectonic activity associated with these and other faults within this regional tectonic framework consists primarily of right-lateral, strike-slip movement. The Rose Canyon Fault Zone, the nearest active fault system, has been mapped approximately 2.8 miles west of the project site. Further discussion of faulting relative to the site is provided in the faulting and seismicity section of this report.

8.2 Site Geology

The geology of the site vicinity is shown on Figure 5. Geologic units mapped at the site and encountered during our subsurface exploration included fill, very old paralic deposits, and materials of the Scripps Formation (Kennedy and Tan, 2008). Generalized descriptions of the earth units mapped in the vicinity and encountered during our field reconnaissance and subsurface exploration are provided in the subsequent sections. Additional descriptions of the subsurface units encountered are provided on the boring logs in Appendix A. Geologic cross sections are shown on Figures 7A and 7B.

8.2.1 Encountered Pavement and Flatwork Sections

Prior to drilling, nine of our borings (B-1 through B-8 and B-11) were located in paved areas and these locations were cored using 8- and 10-inch diameter core barrels to provide access to the subsurface materials. The thickness of the AC pavement was measured at these boring locations. The remaining 10 boring locations were performed in unpaved areas with landscaped and/or fill surfacing. Although not encountered in borings, based on our experience with existing pavement sections at the UC San Diego campus, pavement fabric (i.e., Petromat or similar) may have been used and incorporated into the pavements present at the site. Table 1 summarizes the pavement sections encountered in the borings performed in pavement areas.

Table 1 – Encountered Pavement or Flatwork Section Thicknesses

Boring[1]	Encountered AC thickness	Encountered Aggregate Base Thickness
B-1	4 inches	6
B-2	5 inches	6
B-3	4½ inches	6
B-4	4½ inches	6
B-5	5 inches	6
B-6	3 inches	6
B-7	3 inches	4
B-8	4 inches	6
B-11	3 inches	7

Notes:
AC = asphalt concrete (pavement fabric was encountered within or underlying the AC materials)
[1] – Borings not presented in the above table were located in unpaved areas and AC was not encountered.

8.2.2 Fill (Qaf)

Fill materials are present at the site and were encountered in our borings from the ground surface or underlying the pavement sections and extended to depths up to approximately 5½ feet. As encountered, these materials generally consisted of various shades of brown,

moist, loose to medium dense, silty and clayey sand and firm, sandy lean clay. Scattered gravel, cobbles, and construction debris consisting of concrete fragments were encountered in the fill materials. The fill materials encountered may include old fill materials as well as recently and/or currently being placed fill materials. Information related to the placement and compaction of fill materials was not available for our review.

8.2.3 Very Old Paralic Deposits (Qvop)

Quaternary-age very old paralic deposits, formerly referred to as the Lindavista Formation (Kennedy 1975), are mapped at the site and were encountered in our borings B-2, B-6, B-7, B-17, and B-18 from beneath the fill materials to depths up to approximately 9 feet. As encountered, the very old paralic deposits were observed to consist of various shades of brown, moist, weakly to moderately cemented, silty and clayey sandstone. Difficult drilling conditions were encountered within strongly cemented zones in these materials. Scattered gravel and cobbles were encountered in the very old paralic deposits.

8.2.4 Scripps Formation (Tsc)

Materials of the Eocene-aged Scripps Formation are mapped at the site and were encountered in our borings B-1 through B-15 beneath the fill materials or very old paralic deposits and extended to the depths explored. As encountered, the materials of the Scripps Formation were observed to consist of various shades of gray and brown, moist, weakly to strongly cemented, sandstone, sandy siltstone, silty sandstone, and weakly to moderately indurated, clayey siltstone and sandy claystone. Refusal to further drilling was encountered on strongly cemented or concretionary zones within the Scripps Formation. Scattered gravel and cobbles were encountered in the materials of the Scripps Formation.

8.3 Groundwater

Groundwater was not encountered in our recent exploratory borings that extended to depths of approximately 19.4 feet. Based on review of boring data performed for adjacent projects, groundwater is anticipated to be at depths greater than 50 feet. However, fluctuations in the level of groundwater may occur due to variations in ground surface topography, subsurface stratification, rainfall, irrigation practices, groundwater pumping, and other factors which may not have been evident at the time of our field evaluation. Additionally, based on experience at UC San Diego campus with the underlying formational materials, perched water near the contact with the formational materials or within existing utility trenches or other underground utility excavations should be anticipated.

8.4 Hydrologic Soil Group

The National Resources Conservation Service (NRCS) soil survey maps (USDA, 2025) classify the onsite materials as Hydrologic Soil Group (HSG) D. NRCS describes HSG D as materials that have very slow infiltration characteristics when thoroughly wet. According to Table G.1-5 of the City of San Diego Storm Water BMP Design Manual (2024), HSG D has a potential infiltration rate ranging between 0 and 0.02 inches per hour. However, based on our experience with the subsurface materials encountered on UC San Diego campus, relatively cemented materials are anticipated to be encountered relatively shallow and the infiltration rates at the site are anticipated to be low.

9 GEOLOGIC HAZARDS

In general, hazards associated with faulting and seismic activity include strong ground motion, ground surface rupture, and liquefaction. These considerations and other potential geologic hazards such as flooding and landsliding are discussed in the following sections.

9.1 Faulting and Seismicity

The numerous faults in southern California include active, potentially active, and inactive faults. As defined by the California Geological Survey, active faults are faults that have ruptured within Holocene time, or within approximately the last 11,000 years. Potentially active faults are those that show evidence of movement during Quaternary time (approximately the last 1.6 million years) but for which evidence of Holocene movement has not been established. Inactive faults have not ruptured in the last approximately 1.6 million years. The approximate locations of major active and potentially active faults in the vicinity of the site and their geographic relationship to the site are shown on Figure 6.

The site is located in a seismically active area, as is the majority of southern California and the potential for strong ground motion is considered significant during the design life of the proposed structure. Based on our review of the referenced geologic maps as well as on our site reconnaissance, the subject site is not underlain by known active faults and is not located within a State of California Earthquake Fault Zone (EFZ) (formerly known as an Alquist-Priolo Special Studies Zone) (Hart and Bryan, 2007). The nearest known active fault is the Rose Canyon Fault, which has a characteristic magnitude of 7.0 (USGS, 2025b). The Rose Canyon Fault has been mapped approximately 2.8 miles west of the site.

The City of San Diego's Seismic Safety Element (Figure 8, 2008) and the Kennedy and Tan (2008) geology map depict an unnamed, concealed portion of a potentially active, inactive, presumed inactive, or activity unknown fault passing through the site. This fault is shown to be

approximately 5,000 feet in length and generally trends northwest-southeast. In the vicinity of the project site, the fault is mapped as being concealed (i.e., below) very old paralic deposits. Within the project area, the very old paralic deposits are associated with the Tecolote marine terrace, which has an approximate age of 800,000 years. As the very old paralic deposits are not offset by the fault, we consider this fault to be potentially active.

Similar faults are mapped to the north, east, south, and west of the site. However, according to United States Geological Survey (USGS) active earthquake hazards database (Treiman and Lundberg, 1999) along with California Geological Survey (CGS) Fault Activity Map (Jennings and Bryant, 2010), these faults are not considered active within the Quaternary time.

An aerial plan showing the mapped location of this fault at the site is depicted on Figure 9. As previously indicated, continuous core and/or SPT sampling was performed in eight exploratory borings in the western portion of the project area to evaluate the potential for the mapped concealed fault to impact the proposed project. Continuous core and/or SPT samples were collected and logged by a geologist. We observed potential evidence of faulted formational soil in Borings B-1, B-3, B-4, and B-11. Specifically, materials of the Scripps Formation were observed to be sheared and a brecciated sand lens was present at depths ranging between 5 and 12 feet below existing grade. Based on our observations, the concealed fault may be present in this area of the site.

To further evaluate the potential activity of the fault segment, we have reviewed historic stereoscopic aerial photographs of the project area from 1953. At that time, the site was mostly undeveloped and many of the adjacent improvements had not yet been constructed. Based on our review of the stereoscopic aerial photographs, geomorphic features commonly associated with recent faulting are not present in the vicinity of the fault. Specifically, well-defined scarps and slope breaks are not observed in the stereoscopic photographs.

Based on the information and discussion provided above, we do not consider the unnamed, mapped at the site to be active and do not recommend a structural setback for the proposed improvements from this fault. It is our opinion that the fault segment is a relatively old feature, associated with a different regional stress regime than that of the active Rose Canyon Fault. Seismic design should therefore be based on the active Rose Canyon Fault, located approximately 2.8 miles west of the site.

In general, hazards associated with seismic activity include strong ground motion, ground surface rupture, liquefaction, and tsunamis. These hazards are discussed in the following sections.

9.1.1 Seismic Site Class

As previously discussed, we performed a ReMi survey to evaluate the shear wave velocity profile for the project site in order to select the appropriate Seismic Site Class. Shear wave data resolution generally decreases with depth, due to the loss of sensitivity of the dispersion curve to changes in shear wave velocity as depth increases. Figures showing our MAM seismic modeling results are provided in Appendix B. The layered models in Appendix B indicate our interpretation of the approximate changes in shear wave velocity vertically with depth across the surveyed location. These results are then used to calculate the V_{s30}, which is defined as the average shear wave velocity for the upper 100 feet (30 meters) of the soil, in accordance with ASCE 7-22 for the Minimum Design Loads and Associated Criteria for Building and Other Structures. The results indicate a V_{s30} value of 1,456 fps, which according to ASCE 7-22 Table 20.3-1, corresponds to Seismic Site Class C.

9.1.2 Surface Ground Rupture

Based on our review of the referenced literature and our site reconnaissance, active faults are not known to cross the project site. Therefore, the probability of damage from surface ground rupture is considered to be low. However, lurching or cracking of the ground surface as a result of nearby seismic events is possible.

9.1.3 Strong Ground Motion

Considering the proximity of the site to active faults capable of producing a maximum moment magnitude of 6.0 or more, the project area has a high potential for experiencing strong ground motion. The California Building Code (CBC) specifies that the risk-targeted maximum considered earthquake (MCE_R) ground motion response accelerations may be used to evaluate seismic loads for design of buildings and other structures. The ground motion response accelerations presented herein were evaluated using seismic Site Class C based on the results of our ReMi survey line performed as part this evaluation.

In accordance with ASCE 7-22, the multi-period MCE_R ground motion response accelerations were determined using the United States Geological Survey (USGS) Seismic Design Geodatabase accessed through the ASCE 7 Hazard Tool (2025). The multi-period MCE_R ground motion response accelerations are based on the spectral response accelerations in the direction of maximum horizontal response represented by a 5 percent damped acceleration response spectrum that is expected to achieve a 1 percent probability of collapse within a 50-year period with deterministic limits. Figure 10 presents the multi-period MCE_R response spectrum and the multi-period design response spectrum.

ASCE 7-22 specifies that the potential for liquefaction and soil strength loss be evaluated, where applicable, for the mapped maximum considered earthquake geometric mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M). The MCE_G PGA_M is based on the geometric mean peak ground acceleration with a 2 percent probability of exceedance in 50 years. The PGA_M for the site was calculated as 0.6g using the ASCE 7 Hazard Tool (2025).

Spectral response acceleration parameters for the site, consistent with ASCE 7-22, are provided in Table 2 for the evaluation of seismic loads on buildings and other structures. Design of the proposed improvements should be performed in accordance with the requirements of governing jurisdictions and applicable building codes.

Table 2 – ASCE 7-22 Seismic Design Parameters

Spectral Response Acceleration Parameters	Values
Seismic Design Category	D
Site Class	C
MCE_R Spectral Response Acceleration at 0.2-Second Period for Site Class BC, S_s	1.35g
MCE_R Spectral Response Acceleration at 1.0-Second Period for Site Class BC, S_1	0.42g
MCE_R Spectral Response Acceleration at Short Periods Adjusted for Site Class, S_{MS}	1.41g
MCE_R Spectral Response Acceleration at 1.0-Second Period Adjusted for Site Class, S_{M1}	0.61g
Design Spectral Response Acceleration at Short Periods, S_{DS}	0.94g
Design Spectral Response Acceleration at 1.0-Second Period, S_{D1}	0.41g
Maximum Considered Earthquake Geometric Mean (MCE_G) Peak Ground Acceleration, PGA_M	0.6g

9.1.4 Liquefaction and Seismically Induced Settlement

Liquefaction is the phenomenon in which loosely deposited, saturated, granular and cohesionless fine-grained soils undergo rapid loss of shear strength due to development of excess pore water pressure during strong earthquake-induced ground shaking. Ground shaking of sufficient duration results in the loss of grain-to-grain contact due to a rapid rise in pore water pressure, and it eventually causes the soil to behave as a fluid for a short period of time. Liquefaction is known generally to occur in saturated or near-saturated, cohesionless soils at depths shallower than 50 feet below the ground surface. Factors known to influence liquefaction potential include composition and thickness of soil layers, grain size, relative density, groundwater level, degree of saturation, and both intensity and duration of ground shaking. However, dynamic settlement can occur in both dry and wet sands at deeper depths.

Based on the relatively dense nature of the underlying formational soils at the site and the lack of a shallow groundwater table, the potential for liquefaction and seismically induced settlement is not a design consideration.

9.2 Tsunamis and Seiches

Tsunamis are long wavelength seismic sea waves (long compared to the ocean depth) generated by sudden movements of the ocean bottom during submarine earthquakes, landslides, or volcanic activity. Seiches are similar oscillating waves on inland or enclosed bodies of water. Based on the location and elevation of the site and the absence of water bodies, the potential for a tsunami or seiche to affect the site is not a design consideration. The site is also mapped outside of tsunami inundation areas (Graehl and Wilson, 2022).

9.3 Flood and Dam Inundation Hazards

Based on our review of Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM), the project site is located outside of the mapped 100- and 500-year flood zones. Therefore, flooding is not a design consideration for the project. Based on a review of the Multi-Jurisdictional Hazard Mitigation Plan (County of San Diego, 2017), the site is mapped as lying outside of mapped dam failure inundation zones.

9.4 Landsliding and Slope Stability

Based on our review of referenced geologic maps, literature, topographic maps, and stereoscopic aerial photographs, no landslides or indications of deep-seated landsliding were noted underlying the project site. The site is mapped within relative landslide susceptibility area 2, classified as marginally susceptible to landsliding (Tan, 1995). The City of San Diego's Seismic Safety Element map (2008) depicts the site within Geologic Hazard Category 51 (Figure 8) which includes level mesas with nominal risk. Based on this review, as well as our geologic reconnaissance and subsurface exploration, no indications of landsliding were observed at the site. As such, the potential for significant large-scale slope instability at the site is considered to be low.

9.5 City of San Diego Seismic Safety Study

As part of our evaluation, we have reviewed the City of San Diego Seismic Safety Study (City of San Diego, 2008). The site is located within Geologic Hazard Categories 12 and 51 (Figure 8). The entire site is mapped as category 51 – "Level mesas -- underlain by terrace deposits and bedrock nominal risk". A northwest to southeast trending zone passes through the site that is mapped as category 12 – concealed fault - potentially active, inactive, presumed inactive, or activity unknown. Additional potentially active, inactive, presumed inactive, or activity unknown fault segments are mapped to the north, east, south, and west of the site. However, these are not considered active faults by the State of California.

10 ENVIRONMENTAL SOIL CONDITIONS

The environmental laboratory analytical results indicated the following conditions, which should be assumed to be representative of the materials at the sample location and concentrations extrapolated laterally and vertically to the next adjacent sample with analytical data below acceptable criteria:

- Total Petroleum Hydrocarbon (TPH) (C_6-C_{44}) was detected in 31 of the 50 samples analyzed at concentrations ranging from 4.9 to 700 (B-11-2) milligrams per kilogram (mg/kg). The diesel range organic (DRO) (C10 through C28) concentration in sample B-11 at two feet below ground surface (bgs) was 280 mg/kg which exceeds the San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs) for DRO of 200 mg/kg. All other concentrations of gasoline, diesel, and motor oil range organics were below their respective ESLs. Based on the number of samples collected and predominantly low concentrations, elevated TPH concentrations are not likely prevalent throughout soil at the site. However, soil exported from the site that contains detectable levels of TPH or that are odorous may require special handling.

- Arsenic was detected at a concentration above laboratory reporting limit in all 50 samples submitted at depths between 2 and 15 feet below bgs. Detected concentrations ranged from 1.93 mg/kg to 193 mg/kg. Arsenic concentrations were detected above the DTSC upper bound limit of 12 mg/kg 18 of the 50 samples collected. The 95-percent upper confidence limit of the arithmetic mean (95UCL) for all arsenic concentrations is 22.16 mg/kg, 95UCL for concentrations in samples collected from surface to a max depth of 5 feet bgs is 25.70 mg/kg and the 95UCL for arsenic concentrations in samples collected below 5 feet bgs is 18.97 mg/kg (Table D-2 in Appendix D). The 95UCL including all arsenic concentrations, shallow soil arsenic concentrations only and deeper soil concentrations only were all above the DTSC upper bound limit of 12 mg/kg.

- The arsenic concentration in sample B-11 at 5 feet bgs exceeded Federal-hazardous waste criteria (TCLP) of 100 mg/kg and an additional analysis for soluble arsenic was requested. Based on the soluble arsenic analysis, the sample result did not contain arsenic at a TCLP equal or greater than the Federal-hazardous waste criterion of 5 milligrams per liter (mg/l).

- Lead was detected above laboratory reporting limits in all 50 samples submitted. Concentrations ranged from 1.52 to 679 mg/kg, with two sample concentrations above the California hazardous waste trigger criteria, 50 mg/kg and two sample concentrations above the UCSD criteria of 15 mg/kg. In accordance with guidelines provided by the UCSD Office of Environmental, Health & Safety (EH&S), post construction conditions for accessible soil (i.e., finished grade to 5 feet below finish grade) should not contain concentrations of total lead greater than 15 mg/kg and inaccessible soil (i.e., greater than 5 feet below finish grade or capped by impermeable surface) should not contain concentrations of lead greater than 49 mg/kg. The detected lead concentrations are below the upper-bound Department of Toxic Substances Control (DTSC) risk-based screening level for residential use soil lead concentration of 80 mg/kg (SL).

- The two samples (B-7 at 10 feet and B-11 at 10 feet) containing a lead concentration above 50 mg/kg were subsequently analyzed for soluble lead. Based on the analytical results, the sample concentrations did not equal or exceed the STLC waste criterion of 5 mg/l for lead and therefore, would not require special handling.

- Two samples contained lead concentrations above the UCSD guideline of 15 mg/kg, B-7 at 10 feet (67.9 mg/kg) and B-11 at 10 feet (59.2 mg/kg). Samples collected at 2 feet and 5 feet in these borings had lead concentrations below the UCSD guideline. Additionally, sample B-11 at 15 feet had lead concentrations below the UCSD guidelines. Based upon the low frequency of elevated lead concentrations detected, concentrations above the UCSD guideline are not likely prevalent throughout the site. The calculated 95UCL lead concentration for all lead concentrations is 11.79 mg/kg, 95UCL for concentrations in samples collected from surface to a max depth of 5 feet bgs is 6.92 mg/kg and the 95UCL for concentrations in samples collected below 5 feet bgs was 23.64 mg/kg (Table D-3 in Appendix D). All concentrations are below the UCSD EH&S guidelines and DTSC SLs.

- Antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc were detected in one or more of the samples analyzed; however, the concentrations are below Department of Toxic Substances Control (DTSC) Screening Levels (SL) Environmental Protection Agency (EPA) Regulatory Screening Levels (RSLs) for residential and concentrations would not require special handling.

11 CONCLUSIONS

Based on our review of the referenced background data, subsurface exploration, and laboratory testing, it is our opinion that construction of the proposed project is feasible from a geotechnical standpoint provided the recommendations presented in this report are incorporated into the design and construction of the project. In general, the following conclusions were made:

- The project site is underlain by fill soils, very old paralic deposits, and materials of the Scripps Formation. The fill materials encountered consist of variable materials and conditions and are generally not considered suitable for support of new improvements in their current condition. Recommendations for remedial grading are presented herein.

- The site has a mapped concealed portion of a “potentially active, inactive, presumed inactive, or activity unknown” fault passing through the site. Exploratory borings encountered sheared and a brecciated sand lenses within the Scripps Formation indicating that the concealed fault may be present in this area of the site. Recommendations for remediation of this zone and materials, if encountered, are presented herein.

- Shallow foundations for new buildings may be supported entirely on compacted fill placed in accordance with the remedial grading recommendations or may be supported entirely on competent very old paralic deposits and/or Scripps Formation.

- Site soils are likely to contain detectable concentrations of TPH. Based on the evaluation of the concentrations detected, the soils are suitable for onsite reuse; however, soils that are planned to be exported from the site with detectable concentrations of TPH or that are odorous may require additional analysis, evaluation, and/or special handling, pending receiving facility requirements.

- Site soils contain detectable concentrations of metals. Based on the analytical results and specifically the 95 percent UCL concentration for arsenic, the soils may not be suitable for onsite reuse and may require further evaluation. Additionally, soils that are planned to be exported from the site may require additional analysis, evaluation, and/or special handling, pending receiving facility requirements.

- Results of our laboratory testing indicate that expansive clayey materials may be encountered. Materials that possess a medium to very high potential for expansion are not suitable for reuse as compacted fill beneath buildings, behind retaining walls, or in the subgrade soils beneath concrete flatwork or pedestrian concrete pavement. The contractor should be prepared to perform selective grading techniques or removal and replacement, where expansive clays are encountered.

- With the exception of the expansive clayey materials, the onsite soils are generally considered suitable for reuse as fill, provided they meet the recommendations for fill materials and environmental conditions as presented in this report and UC San Diego EH&S guidelines.

- The existing fill soils, as encountered in our borings, should be generally excavatable with heavy-duty earth moving equipment in good working condition. Additional efforts including heavy ripping should be anticipated in gravel, cobbles and cemented zones. Additional processing and handling of materials including screening and crushing should be anticipated. Based on our borings and experience, cobbles and strongly cemented zones should be anticipated within the very old paralic deposits and Scripps Formation. Due to the presence of these materials, the contractor should anticipate encountering difficulties with performing excavations and drilling operations.

- Groundwater was not encountered in our exploratory borings. However, based on the dense nature of the underlying very old paralic deposits and Scripps Formation and experience on UC San Diego campus, the contractor should anticipate perched groundwater in areas such as, but not limited to, at or near the contact with the very old paralic deposits and Scripps Formation and in utility trenches or similar below-grade improvements.

- Based the cemented nature of the very old paralic deposits and Scripps Formation, along with our experience with similar projects on UC San Diego campus, the infiltration rates at the site are anticipated to be low.

- Based on our experience on UC San Diego campus, as well as the age of the existing pavements, the AC pavement sections may contain pavement fabric and the contractor should anticipate encountering such conditions and materials.

- The active Rose Canyon fault zone is located approximately 2.8 miles west of the site. Accordingly, the potential for relatively strong seismic ground motions should be considered in the project design.

- Based on the results of our soil corrosivity tests the site soils are not considered corrosive based on the California Department of Transportation (Caltrans, 2021) corrosion guidelines.

12 RECOMMENDATIONS

Based on our understanding of the project, the following recommendations are provided for the design and construction of the proposed improvements. The proposed site improvements should be constructed in accordance with the requirements of the applicable governing agencies.

12.1 Earthwork

In general, earthwork should be performed in accordance with the recommendations presented in this report. Ninyo & Moore should be contacted for questions regarding the recommendations or guidelines presented herein.

12.1.1 Pre-Construction Conference

We recommend that a pre-construction conference be held. The owner and/or their representative, the governing agencies' representatives, the architect, the civil engineer, Ninyo & Moore, and the contractor should be in attendance to discuss the work plan and project schedule and earthwork requirements.

12.1.2 Site Preparation

As noted previously, the existing improvements at the site are anticipated to be demolished. The demolition of the existing improvements should also include removal of foundations, underground utilities, and other underground improvements/obstructions within the project area. Prior to performing excavations or other earthwork, the site should be cleared of existing fill soils, debris, vegetation, and loose or otherwise unsuitable soils. Obstructions that extend below the finished grade (such as tree stumps, existing foundations, and underground utilities) should be removed and the resulting holes filled with compacted soil. Materials generated from the clearing operations should be removed from the project site and disposed of at a legal dump site.

12.1.3 Excavation Characteristics

The existing fill soils, as encountered in our borings, should be generally excavatable with heavy-duty earth moving equipment in good working condition. Additional efforts including heavy ripping should be anticipated in gravel, cobbles and cemented zones. Additional processing and handling of materials including screening and crushing should be anticipated. Based on our borings and experience, cobbles and strongly cemented zones should be anticipated within the very old paralic deposits and Scripps Formation. Due to the presence of these materials, the contractor should anticipate encountering difficulties with performing excavations and drilling operations. Although not encountered in our borings, the very old paralic deposits and Scripps Formation on UC San Diego campus contain lenses of cohesionless sand which are prone to caving, sloughing, and easily disturbed, especially when left exposed and dried out. The contractor should anticipate encountering and be prepared to handle such conditions and materials.

As previously discussed, and as shown in Appendix D, results of the environmental analytical testing indicated that the onsite materials may contain elevated levels of lead, TPH, and/or arsenic. Materials generated from these areas may not be considered suitable for reuse onsite and further evaluation should be performed. However, if such materials are to be exported, stockpiling of materials onsite, additional testing and/or evaluation may be needed, pending off-site reuse or disposal facility requirements. Recommendations for off-site reuse and/or disposal

of these materials should consider the existing analytical data presented herein, any additional testing, UCSD EH&S guidelines, and the receiving facility requirements. It is the contractor's responsibility to evaluate soil disposition prior to excavation and manage soils accordingly (e.g., segregation or additional sampling and testing).

12.1.4 Temporary Excavations

For temporary excavations, we recommend that the following Occupational Safety and Health Administration (OSHA) soil classifications be used:

Fill	*Type C*
Very Old Paralic Deposits and Scripps Formation	*Type A*

Upon making the excavations, the soil classifications and excavation performance should be evaluated in the field by the geotechnical consultant in accordance with the OSHA regulations. Temporary excavations should be constructed in accordance with OSHA recommendations. For trench or other excavations, OSHA requirements regarding personnel safety should be met using appropriate shoring (including trench boxes) or by laying back the slopes to no steeper than 1½ to 1 (horizontal to vertical) in fill and ¾ to 1 in very old paralic deposits and Scripps Formation. Temporary excavations that encounter seepage may be shored or stabilized by placing sandbags or gravel along the base of the seepage zone. Excavations encountering seepage should be evaluated on a case-by-case basis. Onsite safety of personnel is the responsibility of the contractor.

12.1.5 Temporary Shoring

Although project specifics are not yet known, temporary shoring may be needed to facilitate construction. If needed, temporary shoring systems should be designed to resist the lateral loads generated from the fill and formational materials present at the site. For preliminary design of the shoring system, the magnitude and distribution of lateral earth pressures presented on Figure 11 for braced shoring and Figure 12 for cantilevered shoring should be used. The recommended design earth pressures are based on the assumptions that (a) the shoring system is constructed without raising the ground surface elevation behind the shoring, (b) that there are no surcharge loads, such as soil stockpiles, construction materials, or vehicular traffic, and (c) that no loads act above a 1 to 1 plane extending up and back from the base of the shoring system. For shoring subjected to the above-mentioned surcharge loads, the contractor should include the effect of these loads on lateral earth pressures acting on the shoring wall.

Settlement of the ground surface may occur behind the shoring wall during excavation. The amount of settlement depends on the type of shoring system, the quality of contractor's workmanship, and soil conditions. Settlement may cause distress to adjacent structures, if present. To reduce the potential for distress to adjacent structures, we recommend that the shoring system be designed to limit the ground settlement behind the shoring to ½ inch or less. Possible causes of settlement that should be addressed include vibration during installation of the sheet piling, excavation for construction, construction vibrations, dewatering, and removal of the support system. We recommend that the potential settlement distress be evaluated carefully by the contractor prior to construction.

The contractor should retain a qualified and experienced engineer to design the shoring system. The shoring parameters presented in this report are for preliminary design purposes and the contractor should evaluate the adequacy of these parameters and make appropriate modifications for their design. We recommend that the contractor take appropriate measures to protect workers. OSHA requirements pertaining to worker safety should be observed. We further recommend that the construction methods provided herein be carefully evaluated by a qualified specialty contractor prior to commencement of the construction.

12.1.6 Remedial Grading for Building Pad

Due to the variability of fill thicknesses and conditions across the site, the potential for encountering previously sheared/faulted materials within the "potentially active, inactive, activity unknown" fault zone mapped at the site, the potential for encountering expansive clays, and the ongoing construction activities that may alter grades further, remedial grading is recommended within the building pad. The purposes of the recommended remedial grading will be to mitigate potential for differential settlement, differential slab-on-grade support, cut-fill transitions, and/or the presence of expansive soils. The recommended remedial grading for the building pad will be dependent on whether the structure's foundations are to be supported entirely on competent formational materials or entirely on compacted fill. The following remedial grading alternatives for these foundation support options are presented in the following sections.

12.1.6.1 Foundations Bearing on Competent Formational Material

In the event the foundation system for the proposed Outpatient Pavilion is to be supported on competent formational materials, we recommend remedial grading of the existing fill materials for slab support. For this alternative, the existing fill materials within the building pad, if not removed during grading, should be overexcavated down to competent formational materials or to a depth of 2 feet below the bottom of the

planned slab elevation, whichever is deeper. In general, the depth of existing fill materials encountered during our subsurface exploration within our borings was up to approximately 5½ feet. However, due to the ongoing construction activities and depending on the location of the proposed structure, deeper fills may be present and the contractor may need to be prepared to remediate deeper fills, where encountered within the building pad. This overexcavation should extend to the horizontal limits of the structural footprint (including foundations for attached overhangs, canopies, and other building appurtenances) plus a horizontal distance of 5 feet, or the depth of the overexcavation, where feasible.

The extent and depths of removals and overexcavations should be evaluated by Ninyo & Moore's representative in the field based on the materials exposed. The resultant overexcavation surface should be scarified to a depth of approximately 8 inches, moisture conditioned and recompacted to a relative compaction of 90 percent as evaluated by the ASTM D 1557 prior to placing new fill. The resulting excavation should then be backfilled with granular soils with a very low to low expansion potential (i.e., an expansion index [EI] of 50 or less). These materials should be placed and compacted in accordance with the recommendations of this report. Due to the presence of existing onsite soils that possess a medium potential for expansion, import soils may be needed to backfill.

The building foundations should extend through the fill materials and be supported on competent very old paralic deposit materials. As an alternative method to stepping down and deepening the footings where deep fills are encountered, the deepened portions of the foundation excavations may be backfilled with controlled low-strength material (CLSM) to the bottom elevation of the concrete footing. For this alternative, footings may bear on a controlled low strength material (CLSM) backfill with a compressive strength of 200 pounds per square inch (psi) according to "Greenbook," Section 201-6 specifications. CLSM backfill should extend down to competent formational material.

Additionally, based on the results of our continuous core and/or SPT sampling during our subsurface evaluation, sheared and brecciated sand lenses within the materials of the Scripps Formation may be encountered at depths ranging between 5 and 12 feet below existing grade. In the event such materials are exposed at the foundation bearing elevation within foundation excavations, we recommend that the sheared and brecciated Scripps Formation materials be overexcavated down to competent formational materials below the sheared zone and replaced with CLSM with a compressive strength of 200 psi. The lateral limits of the overexcavation should be

evaluated in the field during construction. However, for preliminary purposes, the lateral limits should be anticipated to extend 5 feet outside the foundation limits.

12.1.6.2 Foundations Bearing on Compacted Fill

In the event the foundation system for the proposed Outpatient Pavilion is to be supported on compacted fill, we recommend remedial grading of the existing fill materials for foundational support. Additionally, remedial grading may be needed to mitigate against differential settlement caused by a potential cut/fill transition. For this alternative, the existing fill materials within the building pads, if not removed during grading, should be overexcavated down to competent formational materials, down to a depth of 5 feet below the deepest planned footing bottom elevation, or to a depth of one-third the deepest fill within the building footprint, whichever is deeper. In general, the depth of existing fill materials encountered during our subsurface exploration within our borings was up to approximately 5½ feet. However, due to the ongoing construction activities and depending on the location of the proposed structure, deeper fills may be present and the contractor may need to be prepared to remediate deeper fills where encountered within the building pad. This overexcavation should extend to the horizontal limits of the structural footprint (including foundations for attached overhangs, canopies, and other building appurtenances) plus a horizontal distance of 5 feet, or the depth of the overexcavation, where feasible.

The extent and depths of removals and overexcavations should be evaluated by Ninyo & Moore's representative in the field based on the materials exposed. The resultant overexcavation surface should be scarified to a depth of approximately 8 inches, moisture conditioned and recompacted to a relative compaction of 90 percent as evaluated by the ASTM D 1557 prior to placing new fill. The resulting excavation should then be backfilled with granular soils with a very low to low expansion potential (i.e., an expansion index [EI] of 50 or less). These materials should be placed and compacted in accordance with the recommendations of this report. Due to the presence of existing onsite soils that possess a medium potential for expansion, import soils may be needed to backfill.

Additionally, based on the results of our continuous core and/or SPT sampling during our subsurface evaluation, sheared and brecciated sand lenses within the materials of the Scripps Formation may be encountered at depths ranging between 5 and 12 feet below existing grade. In the event such materials are exposed within at the bottom of the overexcavation, we recommend that the sheared and brecciated Scripps Formation materials also be overexcavated down to competent formational materials below the sheared zone. Given that the foundations are planned to be supported on compacted fill, the

overexcavation for sheared and brecciated materials may be backfilled with granular soils with a very low to low expansion potential (i.e., an expansion index [EI] of 50 or less). These materials should be placed and compacted in accordance with the recommendations of this report.

12.1.7 Remedial Grading for Retaining Walls and Screen Walls

We recommend that the existing fill soils beneath retaining and/or screen walls not connected to buildings be overexcavated 3 feet below bottom of footings. This overexcavation should extend to the horizontal limits of the structural footprint plus a horizontal distance of 5 feet. The extent and depths of removals and overexcavations should be evaluated by Ninyo & Moore's representative in the field based on the materials exposed. The resultant overexcavation surface should be scarified to a depth of approximately 8 inches, moisture conditioned and recompacted to a relative compaction of 90 percent as evaluated by the ASTM D 1557 prior to placing new fill. The resulting excavation should then be backfilled with granular soils with a very low to low expansion potential (i.e., an expansion index [EI] of 50 or less). These materials should be placed and compacted in accordance with the Compacted Fill section of this report.

12.1.8 Remedial Grading for Flatwork and Pedestrian Hardscape

Where flatwork and pedestrian hardscape is planned, we recommend that the onsite soils be overexcavated to a depth of 2 feet below finished subgrade elevation. The proposed overexcavations should extend outward horizontally 2 feet from the horizontal limits of the flatwork and/or pedestrian hardscape. The extent and depth of removals should be evaluated by Ninyo & Moore's representative in the field based on the material exposed.

The resulting surface should be scarified 8 inches, moisture conditioned, and recompacted to a relative compaction of 90 percent as evaluated by ASTM D 1557. The overexcavation should then be filled with soils that possess a low to very low potential for expansion (i.e., an EI less than 50). The fill soils should be moisture conditioned to near optimum moisture content and compacted to a relative compaction of 90 percent as evaluated by ASTM D 1557

12.1.9 Remedial Grading for Vehicular Pavements

Where vehicular pavements are planned, we recommend that the onsite soils be overexcavated to a depth of 1 foot below finished subgrade elevation. The proposed overexcavations should extend outward horizontally 2 feet from the horizontal limits of the pavement. The extent and depth of removals should be evaluated by Ninyo & Moore's representative in the field based on the material exposed.

The resulting surface should be scarified 8 inches, moisture conditioned, and recompacted to a relative compaction of 90 percent as evaluated by ASTM D 1557. The overexcavation should then be filled with soils that possess a low to very low potential for expansion (i.e., an EI less than 50). The fill soils should be moisture conditioned to near optimum moisture content and compacted to a relative compaction of 90 percent as evaluated by ASTM D 1557.

12.1.10 Fill Material

Soils derived from onsite excavations are anticipated to generate oversize materials due to the presence of gravel, cobbles, cemented sandstone, and indurated siltstone and claystone. Additionally, laboratory testing indicates that expansive clayey materials are present and may be encountered. Soils that possess a medium to very high potential for expansion (i.e., an expansion index of 50 or more) are not suitable for reuse within the building pad, as retaining wall backfill, or in upper 2 feet beneath concrete flatwork and/or pedestrian hardscape. These materials should be selectively graded for use in non-structural areas, or removed and replaced with other imported materials considered suitable for fill.

Onsite sandy soils (sand, silty sand, and clayey sand) with an organic content of less than approximately 3 percent by volume (or 1 percent by weight), that possess an expansion index (EI) less than 50, and meet UC San Diego EH&S guidelines, are suitable for reuse as engineered fill material. In general, fill material should not contain rocks or lumps over approximately 3 inches in diameter, and not more than approximately 30 percent larger than ¾ inch. Rocks or hard lumps larger than approximately 3 inches in diameter should be broken into smaller pieces or should be removed from the site.

Imported fill material should generally be granular soils with a very low expansion potential (i.e., an expansion index [EI] of 20 or less). Additionally, import material should not be considered corrosive as defined by Caltrans (2021) corrosion guidelines and American Concrete Institute (ACI) 318. The contractor should be responsible for the uniformity of import material brought to the site. We recommend that materials proposed for use as import fill be evaluated from a contractor's stockpile rather than in-place materials. Materials for use as fill should be evaluated by Ninyo & Moore's representative prior to filling or importing.

To reduce the potential for importation of contaminated materials to the site, soil materials obtained from off-site sources shall be evaluated prior to their delivery to the site by the supplier or contractor and certified as suitable for use in compliance with California Department of Toxic Substances Control "Information Advisory, Clean Imported Fill Material," dated October 2001. In addition, import materials should be in compliance with UC San Diego Environment, Health &

Safety (EH&S) requirements. Certification and detailed test results should be submitted to UC San Diego for approval prior to their delivery to the site. Importation of soils that exhibit a known risk to human health or the environment should not be permitted.

12.1.11 Fill Placement and Compaction

Prior to placement of compacted fill, the contractor should request an evaluation of the exposed ground surface by Ninyo & Moore. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 8 inches and watered or dried, as needed, to achieve moisture contents generally at or slightly above the optimum moisture content. The scarified materials should then be compacted to a relative compaction of 90 percent as evaluated in accordance with ASTM D 1557. The evaluation of compaction by the geotechnical consultant should not be considered to preclude any requirements for observation or approval by governing agencies. It is the contractor's responsibility to notify this office and the appropriate governing agency when project areas are ready for observation, and to provide reasonable time for that review.

Fill materials should be moisture conditioned to generally at or slightly above the laboratory optimum moisture content prior to placement. The optimum moisture content will vary with material type and other factors. Moisture conditioning of fill soils should be generally consistent within the soil mass.

Prior to placement of additional compacted fill material following a delay in the grading operations, the exposed surface of previously compacted fill should be prepared to receive fill. Preparation may include scarification, moisture conditioning, and recompaction.

Compacted fill should be placed in horizontal lifts of approximately 8 inches in loose thickness. Prior to compaction, each lift should be watered or dried as needed to achieve a moisture content generally at or slightly above the laboratory optimum, mixed, and then compacted by mechanical methods, to a relative compaction of 90 percent as evaluated by ASTM D 1557. Successive lifts should be treated in a like manner until the desired finished grades are achieved. The upper 12 inches of the subgrade materials underneath vehicular pavements should be placed to a relative compaction of 95 percent as evaluated by the current version of ASTM D 1557. Additionally, aggregate base materials underneath vehicular pavements should be compacted to a relative compaction of 95 percent as evaluated by the current version of ASTM D 1557.

12.1.12 Pipe Bedding and Modulus of Soil Reaction (E')

It is our recommendation that new pipelines (pipes), where constructed in open excavations, be supported on 6 or more inches of granular bedding material. Granular pipe bedding should be provided to distribute vertical loads around the pipe. Bedding material and compaction requirements should be in accordance with this report. Pipe bedding typically consists of graded aggregate with a coefficient of uniformity of three or more.

The modulus of soil reaction (E') is used to characterize the stiffness of soil backfill placed at the sides of buried flexible pipes for the purpose of evaluating deflection caused by the weight of the backfill over the pipe (Hartley and Duncan, 1987). A soil reaction modulus of 1,200 psi may be used for an excavation depth of up to approximately 5 feet when backfilled with granular soil compacted to a relative compaction of 90 percent as evaluated by the ASTM D 1557. A soil reaction modulus of 1,800 psi may be used for trenches deeper than 5 feet.

12.1.13 Pipe Zone Backfill

The pipe zone backfill extends from the top of the pipe bedding material and continues to extend to 1 foot or more above the top of the pipe in accordance with the recent edition of the Standard Specifications for Public Works Construction ("Greenbook"). Pipe zone backfill should have a Sand Equivalent (SE) of 30 or more, and be placed around the sides and top of the pipe. Special care should be taken not to allow voids beneath and around the pipe. Compaction of the pipe zone backfill should proceed up both sides of the pipe.

It has been our experience that the voids within a crushed rock material are sufficiently large to allow fines to migrate into the voids, thereby creating the potential for sinkholes and depressions to develop at the ground surface. If open-graded gravel is utilized as pipe zone backfill, this material should be separated from the adjacent trench sidewalls and overlying trench backfill with a geosynthetic filter fabric.

12.1.14 Utility Trench Zone Backfill

Utility trench zone backfill material should be generally free of trash, debris, roots, vegetation, or deleterious materials. Trench zone backfill should generally be free of rocks or hard lumps of material in excess of 3 inches in diameter. Rocks or hard lumps larger than about 3 inches in diameter should be broken into smaller pieces or should be removed from the site. Oversize materials should be separated from material to be used as trench backfill. Moisture conditioning (including drying and/or mixing) of existing onsite materials is anticipated if reused as trench backfill.

12.1.15 Thrust Blocks

Thrust restraint for buried pipelines may be achieved by transferring the thrust force to the soil outside the pipe through a thrust block. Thrust blocks may be designed using the magnitude and distribution of passive lateral earth pressures presented on Figure 13. Thrust blocks should be backfilled with granular backfill material and compacted following the recommendations presented in this report.

12.2 Foundations

As previously noted, design level drawings or plans have yet to be finalized. Foundations for structures should be supported entirely on competent formational materials or compacted fill materials. Foundations should be designed in accordance with structural considerations and the following preliminary recommendations. When additional project specifics are available, the preliminary recommendations presented in this report may need to be revised or modified accordingly. In addition, requirements of the appropriate governing jurisdictions and applicable building codes should be considered in the design of the structures.

12.2.1 Shallow Foundations Bearing on Compacted Fill

Foundations bearing on compacted fill should be supported on at least 5 feet of fill placed in accordance with the remedial grading recommendations presented herein. An allowable bearing capacity of 3,000 pounds per square foot (psf) may be used for design of shallow foundations bearing on compacted fill. The allowable bearing capacity may be increased by 500 psf for each additional foot of depth up to 4,000 psf. The allowable bearing capacity may also be increased by one-third when considering loads of short duration such as wind or seismic forces. Shallow, spread, or continuous footings for buildings should be founded at least 24 inches below the lowest adjacent grade. Continuous footings should have a width of 18 inches and isolated footings should be 24 inches or more in width. The footings should be reinforced in accordance with the recommendations of the project structural engineer.

12.2.2 Shallow Foundations Bearing on Competent Formation

Foundations supported on competent formational materials (or on CLSM underlain by competent formation as recommended in the remedial grading section of this report), may be designed using an allowable bearing capacity of 4,500 psf may be used for design of shallow and/or mat foundations bearing on competent Mission Valley Formation. The allowable bearing capacity may be increased by 500 psf for each additional foot of depth up to 7,000 psf. The allowable bearing capacity may also be

increased by one-third when considering loads of short duration such as wind or seismic forces. Shallow, spread, or continuous footings for buildings are anticipated to be founded 24 inches below the lowest adjacent grade. Continuous footings should have a width of 18 inches and isolated footings should be 24 inches or more in width. The footings should be reinforced in accordance with the recommendations of the project structural engineer.

12.2.3 Mat Foundations Bearing on Compacted Fill

Based on our experience with similar projects on UCSD campus, mat foundations may also be used to support portions of the proposed building. Mat foundations supported on at least 5 feet of fill placed in accordance with the remedial grading recommendations presented herein may be designed using an allowable bearing capacity of 3,000 psf. The allowable bearing capacity may be increased by one-third when considering loads of short duration such as wind or seismic forces. The footings should be reinforced in accordance with the recommendations of the project structural engineer.

Mat foundations typically experience some deflection due to loads placed on the mat and the reaction of the soils underlying the mat. A design coefficient of subgrade reaction, K_{v1}, of 200 pounds per cubic inch (pci) may be used for evaluating such deflections of mat foundations supported on compacted fill. This value is based on a unit square-foot area and should be adjusted for the planned mat size. The coefficient of subgrade reaction K_b for a mat of specific width may be evaluated using the following equation:

$$K_b = K_{v1}[(b+1)/2b]^2$$

where b is the width of the foundation in feet.

12.2.4 Mat Foundations Bearing on Competent Formation

Based on our experience with similar projects on UCSD campus, mat foundations may also be used to support portions of the proposed building. Depending on the thickness, depth, and/or location of the mat foundation, the foundation may be able to be supported entirely on competent formational materials (or on CLSM underlain by competent formation as recommended in the remedial grading section of this report). In this case, the mat foundations may be designed using an allowable bearing capacity of 4,500 psf. The allowable bearing capacity may be increased by one-third when considering loads of short duration such as wind or seismic forces. The footings should

be reinforced in accordance with the recommendations of the project structural engineer.

Mat foundations typically experience some deflection due to loads placed on the mat and the reaction of the soils underlying the mat. A design coefficient of subgrade reaction, K_{v1}, of 300 pci may be used for evaluating such deflections of mat foundations supported on competent formational materials. This value is based on a unit square-foot area and should be adjusted for the planned mat size. The coefficient of subgrade reaction K_b for a mat of specific width may be evaluated using the following equation:

$$K_b = K_{v1}[(b+1)/2b]^2$$

where b is the width of the foundation in feet.

12.2.5 Lateral Resistance

For resistance of footings to lateral loads, we recommend an allowable passive pressure of 350 psf of depth be used with an upper bound value of up to 3,500 psf. This value assumes that the ground is horizontal for a distance of 10 feet, or three times the height generating the passive pressure, whichever is more. We recommend that the upper 1 foot of soil not protected by pavement or a concrete slab be neglected when calculating passive resistance.

For frictional resistance to lateral loads, we recommend a coefficient of friction of 0.3 be used between soil and concrete. The allowable lateral resistance can be taken as the sum of the frictional resistance and passive resistance provided the passive resistance does not exceed one-half of the total allowable resistance. The passive resistance values may be increased by one-third when considering loads of short duration such as wind or seismic forces.

12.2.6 Static Settlement

We estimate that the proposed structures, designed and constructed as recommended herein will undergo total settlement on the order of 1 inch. Differential settlement on the order of ½ inch over a horizontal span of 40 feet should be expected.

12.3 Equipment Pads

We understand that the project may also include isolated slabs-on-grade (i.e., equipment pads). The equipment pads should be designed by the project structural engineer based on the anticipated loading conditions. From a geotechnical standpoint, we recommend that the equipment pads have a thickness of 6 inches or more and be reinforced with No. 4 steel reinforcing bars placed 18 inches on-center (each way) in the middle one-third of the slab height. Where fill soils are encountered at

the bottom of the equipment pad excavation, the upper 12 inches of subgrade soils beneath equipment pads should be compacted to a relative compaction of 90 percent of the modified Proctor density as evaluated by ASTM D 1557. Where formational materials are encountered at the bottom of the equipment pad excavation, equipment pads may be found entirely on competent formational material that is firm and unyielding.

The allowable contact pressure(s) beneath the bases of equipment pads will vary with their size, and other factors. A net allowable bearing pressure of 2,500 psf may be used to design equipment pads supported on fill soils or on competent formational material. Individual equipment pads should be entirely supported on either fill soils or formational materials to mitigate differential settlement.

Isolated equipment pads will typically experience some deflection due to loads placed on the pad and the reaction of the soils underlying the pad. We recommend that a design coefficient of subgrade reaction, K, of 200 pci be used to evaluate anticipated deflections. This value is based on a unit square foot area and should be adjusted for the planned pad size. The coefficient of subgrade reaction K_b for a pad of a specific width, may be evaluated using the following equation:

$$K_b=K[(b+1)/2b]^2$$

Where, **b** is the width of the equipment pad.

We estimate that the pad deflections will be on the order of 1-inch or less, when designed and constructed with the recommendations herein.

12.4 Canopy/Shade Structure and Light Pole Foundations

Canopy/shade structures and light poles, if proposed, may be supported on cast-in-drilled-hole (CIDH) concrete piles. Canopy/shade structures typically impose relatively light axial loads on foundations. Although we anticipate that pile dimensions will be generally governed by the lateral load demand, we recommend that drilled canopy/shade structure foundations have a diameter of 18 inches or more. The pile dimensions (i.e., diameter and embedment) should be evaluated by the project structural engineer.

CIDH piles may be designed using an allowable downward (axial) frictional resistance value of 190 psf based on a factor of safety of 2.0 and an uplift frictional resistance value of 140 psf based on a factor of safety of 1.5. The axial and uplift pile capacities presented are based on a combined side friction calculated using the shear strength properties evaluated from remolded samples of the fill materials and relatively undisturbed samples of the formational materials

encountered at the site. We recommend that end bearing not be incorporated into the pile design capacities. The values above may be increased by one-third when considering loading of short duration such as wind or seismic forces (i.e., dynamic loads).

Drilled pile excavations may be difficult to perform due to the presence of gravel and/or cobbles in the fill materials, as well as concretions and cemented zones within the formational materials. The drilled pile construction should be observed by Ninyo & Moore during construction to evaluate if the piles have been extended to the design depths. The drilled holes should be cleaned of loose soil and gravel. It is the contractor's responsibility to (a) take appropriate measures for maintaining the integrity of the drilled holes, (b) see that the holes are cleaned and straight, and (c) see that sloughed loose soil is removed from the bottom of the hole prior to the placement of concrete. Drilled piles should be checked for alignment and plumbness during installation. The amount of acceptable misalignment of a pile is approximately 3 inches from the plan location. It is usually acceptable for a pile to be out of plumb by 1 percent of the depth of the pile. The center-to-center spacing of piles should be no less than three times the nominal diameter of the pile.

12.4.1 Lateral Resistance – CIDH Piles

For resistance of canopy/shade structures and light pole footings to lateral loads, we recommend an allowable passive pressure of 600 psf per foot of depth be used, with an upper bound value of up to 6,000 psf. For this case, an effective width of one times the diameter of the piles may be considered when evaluating lateral resistance. The recommended passive pressure has already been increased based on the understanding that the canopy/shade structures and light pole columns can tolerate ½ inch of deflection at the surface. Furthermore, this value assumes that the ground is horizontal for a distance of 10 feet, or three times the height generating the passive pressure, whichever is greater. We recommend that the upper 1 foot of soil not protected by pavement or a concrete slab be neglected when calculating passive resistance.

For frictional resistance of canopy/shade structures and light pole footings to lateral loads, we recommend a coefficient of friction of 0.3 be used between soil and concrete. The allowable lateral resistance values may be increased by one-third during short term loading conditions, such as wind or seismic loading.

12.5 Retaining Walls and Screen Walls

Retaining walls and screen walls supported on compacted fill, prepared in accordance with the remedial grading recommendations, may be designed using a net allowable bearing capacity of

3,000 psf. Retaining wall foundations should be 18 inches or more below the lowest adjacent grade and should have a width of 24 inches or more. For the design of a yielding retaining wall that is not restrained against movement by rigid corners or structural connections, preliminary lateral pressures are presented on Figure 14. Restrained walls (non-yielding) may be designed for preliminary lateral pressures presented on Figure 15. These pressures assume select backfill materials are used and free draining conditions. Measures should be taken to reduce the potential for build-up of moisture behind the retaining walls. A drain should be provided behind the retaining wall as shown on Figure 16. The drain should be connected to an appropriate outlet.

12.6 Interior Slabs-on-Grade

We recommend that conventional, interior concrete slab-on-grade floors be underlain by generally very low to low expansion potential (i.e., an EI of 50 or less) compacted fill materials placed in accordance with the remedial grading recommendations of this report. Interior concrete slabs-on-grade should be 5 inches thick and be reinforced with No. 4 reinforcing bars spaced 18 inches on center each way. The reinforcing bars should be placed near the middle of the slab. As a means to help reduce shrinkage cracks, we recommend that the slabs be provided with crack-control joints at intervals of approximately 12 feet each way. The slab reinforcement and expansion joint spacing should be designed by the project structural engineer.

If moisture sensitive floor coverings are to be used, we recommend that slabs be underlain by a vapor retarder and capillary break system consisting of a 10-mil polyethylene (or equivalent) membrane placed over 4 inches of medium to coarse, clean sand or pea gravel. The steel reinforcements for the floor slabs shall be placed on the vapor retarder using chairs, as appropriate.

12.7 Concrete Flatwork and Pedestrian Hardscape

Exterior concrete flatwork and pedestrian hardscape should be underlain by very low to low expansion potential (i.e., an EI of 50 or less) compacted fill materials placed in accordance with the remedial grading recommendations of this report. From a geotechnical standpoint, we recommend concrete flatwork and pedestrian hardscape be at least 4 inches in thickness and be reinforced with No. 3 reinforcing bars placed at 24 inches on-center both ways. The actual thickness and reinforcement should also consider recommendations from the project Civil Engineer, Structural Engineer, and/or UC San Diego guidelines.

A vapor retarder is not needed for exterior flatwork. To reduce the potential manifestation of distress to exterior concrete flatwork due to movement of the underlying soil, we recommend that such flatwork be installed with crack-control joints at appropriate spacing as designed by the design engineer. Before placement of concrete, remedial grading should be performed in

accordance with the recommendations presented previously in this report. Positive drainage should be established and maintained adjacent to flatwork.

12.8 Corrosion

Laboratory testing was performed on representative samples of near-surface soil to evaluate soil pH, electrical resistivity, water-soluble chloride content, and water-soluble sulfate content. The soil pH and electrical resistivity tests were performed in general accordance with California Test Method (CT) 643. Chloride content tests were performed in general accordance with CT 422. Sulfate testing was performed in general accordance with CT 417.

The pH value of the tested sample was approximately 7.5, the electrical resistivity was approximately 1,500 ohm-centimeters, the chloride content was approximately 110 parts per million (ppm), and the sulfate content was approximately 0.006 percent (i.e., 60 ppm). Based on a comparison with the Caltrans corrosion criteria (Caltrans, 2021), the onsite soils would not be classified as corrosive. Corrosive soils are defined by the Caltrans corrosion criteria (Caltrans, 2021) as soils with an electrical resistivity less than 1,100 ohm-cm, a chloride content more than 500 ppm, more than 0.15 percent sulfates (1,500 ppm), and/or a pH less than 5.5.

12.9 Concrete

Concrete in contact with soil or water that contains high concentrations of soluble sulfates can be subject to chemical deterioration. Laboratory testing indicated sulfate content of the sample tested of 0.006 percent (i.e., 60 ppm). Based on the ACI 318 criteria, the results of the laboratory testing of site soils correspond to Exposure Class S0. However, due to the potential variability of site soils, we recommend using Type II/V cement for concrete in contact with soil.

12.10 Drainage

Roof, pad, and slope drainage should be conveyed such that runoff water is diverted away from slopes and structures to suitable discharge areas by nonerodible devices (e.g., gutters, downspouts, concrete swales, etc.). Positive drainage adjacent to structures should be established and maintained. Positive drainage may be accomplished by providing drainage away from the foundations of the structure at a gradient of 5 percent or steeper for a distance of 10 feet or more outside the building perimeter, or 2 percent or steeper for a distance of 10 feet or more outside the building perimeter if paved. Drainage should be further maintained by a graded swale leading to an appropriate outlet, in accordance with the recommendations of the project civil engineer and/or landscape architect.

Surface drainage on the site should be provided so that water is not permitted to pond. A gradient of 2 percent or steeper should be maintained over the pad area and drainage patterns should be established to divert and remove water from the site to appropriate outlets.

Care should be taken by the contractor during final grading to preserve any berms, drainage terraces, interceptor swales or other drainage devices of a permanent nature on or adjacent to the property. Drainage patterns established at the time of final grading should be maintained for the life of the project. The property owner and the maintenance personnel should be made aware that altering drainage patterns might be detrimental to slope stability and foundation performance.

12.11 Preliminary Pavement Design

The results of our laboratory testing indicated R-values ranging from 14 to 36. For preliminary design of site pavements, we have used an R-value of 14 and Traffic Indices (TI) of 5, 6, and 7 for typical pavement areas. In accordance with the City of San Diego Fire and Hazard Prevention Services Policy A-00-9, we have included a TI of 9.5 for fire lanes at the project site. Actual pavement recommendations should be based on R-value tests performed on bulk samples of the soils that are exposed at the finished subgrade elevations across the site at the completion of the earthwork operations.

12.11.1 Preliminary Flexible Pavement Design

The preliminary flexible pavement sections are presented in the following Table 3.

Table 3 – Recommended Preliminary Flexible Pavement Sections

Traffic Index	Design R-Value	Asphalt Concrete (in)	Class 2 or Crushed Aggregate Base (in)
5	14	3	8
6	14	4	11
7	14	5	12
9.5	14	6	19

We recommend that the upper 12 inches of the subgrade be compacted to 95 percent of its Proctor density as evaluated by ASTM D 1557. The aggregate base materials should be compacted to 95 percent of its Proctor density as evaluated by ASTM D 1557. Additionally, the AC materials should be compacted to 95 percent of the materials Hveem density. The above pavement section should provide an approximate pavement life of 20 years. If traffic loads are different from those assumed, the pavement design should be re-evaluated.

12.11.2 Preliminary Rigid Pavement Design

Experience indicates that refuse truck traffic and other heavy vehicular loading, along with frequent stop-and-go loading conditions, can significantly shorten the useful life of AC sections. If rigid pavements are planned in these areas or for lighter loaded areas, the preliminary rigid pavement sections presented in the following Table 4 may be used.

Table 4 – Recommended Preliminary Rigid Pavement Sections

Traffic Index	Design R-Value	Portland Cement Concrete (in)	Class 2 or Crushed Aggregate Base (in)
7 or less	14	7	6
9.5	14	8½	8

Rigid pavement should consist of Portland cement concrete with a flexural strength of 600 psi or greater that is reinforced with No. 3 bars, 18-inches on center. The aggregate base materials should be compacted to a relative compaction of 95 percent of its Proctor density as evaluated by ASTM D 1557. Additionally, the upper 12 inches of the subgrade beneath the aggregate base should be compacted to 95 percent of its Proctor density as evaluated by ASTM D 1557.

12.12 Permanent Stormwater Best Management Practices (BMP)

As described earlier, the onsite materials are mapped as having a very slow infiltration characteristics when thoroughly wet. Additionally, based on our experience with the subsurface materials encountered on UC San Diego campus, relatively cemented materials are anticipated to be encountered relatively shallow and the infiltration rates at the site are anticipated to be low. Based on these conditions, attempts to infiltrate will lead to mounding and lateral movement of water which can impact proposed and existing improvements at the site. Therefore, we recommend permanent stormwater BMPs be lined on the sides and bottom with an impermeable liner. In addition, site design may consider the use of pavement edge drains and cutoff curbs to reduce the potential for lateral migration of irrigation and runoff both into adjacent trench backfill, subgrade soils, or aggregate base materials beneath other improvements. Additionally, we recommend that infiltration devices incorporate an overflow pipe that is connected to an appropriate outlet. Additional recommendations and/or considerations should be provided by the project civil engineer.

12.13 Environmental Soil Handling

Based on the findings of the environmental soil sampling and analysis, we recommend the following:

- Analytical data representative of the material should be assumed to be at the sample location and extrapolated laterally and vertically to the next adjacent sample with analytical data below acceptable criteria. These materials, if excavated and planned for export or disposal, may need to be segregated and stockpiled separately from other excavated materials and tested in accordance with the receiving facility requirements.

- Soils at the site have the potential to contain detectable concentrations of TPH. However, based on the evaluation of the concentrations detected in samples collected from the onsite materials, the soils would be suitable for onsite reuse. Soils proposed for export with detectable concentrations of TPH or that are odorous may require additional analysis, evaluation, and/or special handling, pending receiving facility requirements.

- Soils at the site contain detectable metal concentrations. However, based on the arsenic concentrations detected in samples collected from the onsite materials, the soils may not be suitable for onsite reuse and further analysis may be required. Soils proposed for exported from some site locations may require additional analysis, evaluation and/or special handling, pending receiving facility requirements. It is the contractor's responsibility to evaluation soil disposition prior to excavation and manage soils accordingly (e.g., segregation or additional sampling and testing).

- Preparation of a Soil Management Plan (SMP) should be considered by UCSD EH&S based on the existing analytical data.

- Personnel at the site who will or may be exposed to contaminated soil (e.g., through inhalation, ingestion, dermal contact) should possess current Occupational Safety and Health Administration (OSHA) training certification(s) commensurate with their potential exposure.

13 PLAN REVIEW AND CONSTRUCTION OBSERVATION

The conclusions and recommendations presented in this report are based on analysis of observed conditions in widely spaced exploratory borings. If conditions are found to vary from those described in this report, Ninyo & Moore should be notified, and additional recommendations will be provided upon request. Additionally, the recommendations presented in this report are preliminary and were provided without the benefit of project specifics. When additional project specifics are available, the preliminary recommendations presented in this report may need to be revised or modified accordingly. Ninyo & Moore should review the final project drawings and specifications prior to the commencement of construction. Ninyo & Moore should perform the needed observation and testing services during construction operations.

The recommendations provided in this report are based on the assumption that Ninyo & Moore will provide geotechnical observation and testing services during construction. In the event that it is decided not to utilize the services of Ninyo & Moore during construction, we request that the selected consultant provide the client with a letter (with a copy to Ninyo & Moore) indicating that

they fully understand Ninyo & Moore's recommendations, and that they are in full agreement with the design parameters and recommendations contained in this report. Construction of proposed improvements should be performed by qualified subcontractors utilizing appropriate techniques and construction materials.

14 LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this geotechnical report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified, and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

15 REFERENCES

American Concrete Institute (ACI), 2022, ACI 318 Building Code Requirements for Structural Concrete and Commentary.

American Society of Civil Engineers (ASCE), 2022, Minimum Design Loads for Buildings and Other Structures, ASCE 7-22.

American Society of Civil Engineers (ASCE), 2025, ASCE 7 Hazard Tool, https://asce7hazardtool.online/: accessed August.

Building News, 2024, "Greenbook", Standard Specification for Public Works Construction: BNI Publications.

California Building Standards Commission, 2025, California Building Code (CBC): California Code of Regulations, Title 24, Part 2, Volumes 1 and 2.

California Department of Transportation (Caltrans), 2021, Corrosion Guidelines, Version 3.2.

California Emergency Management Agency (CEMA), 2009, Tsunami Inundation Map for Emergency Planning, Del Mar Quadrangle: dated June 1.

California Geological Survey, 1999a, Seismic Shaking Hazard Maps of California: Map Sheet 48.

California Geological Survey, 1999b, Epicenters of and Areas Damaged by M>5 California Earthquakes, 1800-1999: Map Sheet 49.

City of San Diego, 1999, "Active", "Potentially Active" and "Inactive" Faults – Defined.

City of San Diego, 2024, Storm Water Standards, BMP Design Manual: dated August.

City of San Diego Development Services Department, 2008, Seismic Safety Study, Geologic Hazards and Faults, Grid Tile 34.

County of San Diego, 1954, Topographic Survey, Sheet 258-1701, Scale 1:200.

County of San Diego, 1977, Orthotopographic Survey, Sheet 258-1701, Scale 1:200.

County of San Diego, 2017, Multi-Jurisdictional Hazard Mitigation Plan, https://www.sandiegocounty.gov/oes/emergency_management/oes_jl_mitplan.html.

Google Earth, 2025, http://earth.google.com: accessed in July.

Graehl, N.G., and Wilson, R.I., 2022, Tsunami Hazard Area Map, San Diego County; produced by the California Geological Survey and the California Governor's Office of Emergency Services.

Group Delta, 2022, Preliminary Geotechnical Reconnaissance, East Campus Loop Road Realignment (UC San Diego Project No. 5548), La Jolla, California: dated July 8.

Group Delta, 2023, Report of Geotechnical Investigation, East Campus Loop Road Realignment (UC San Diego Project No. 5548), La Jolla, California: dated July 7.

Harden, D.R., 2004, *California Geology* – 2nd ed.: Prentice Hall, Inc.

Hart, E.W., and Bryant, W.A., 2007, Fault-Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zone Maps: California Geological Survey, Special Publication 42, with Supplement 1 added in 2012, Supplement 2 added in 2014, Supplement 3 added in 2015, and Supplement 4 added in 2016.

Hartley, J.D., and Duncan, J.M., 1987, E' and Its Variation with Depth: American Society of Civil Engineers (ASCE), Journal of Transportation Engineering, Vol. 113, No. 5: dated September.

Historic Aerials, 2025, Aerial Photographs, www.hisotricaerials.com: accessed in July.

Jennings, C.W., and Bryant, W.A., 2010, Fault Activity Map of California, California Geological Survey, Scale 1:750,000.

Kennedy, M.P., 1975, Geology of the San Diego Metropolitan Area, California, California Division of Mines and Geology, Map Sheet MS-026, Scale 1:24,000.

Kennedy, M.P. and Tan, S.S, 2008, Geologic Map of the San Diego 30' x 60' Quadrangle, San Diego County, California: California Geological Survey, Scale 1:100,000.

Ninyo & Moore, 2012, Remediation of Inactive Fault, Jacobs Medical Center, Bed Tower, OSHPD No. IL-092778-37, University of California San Diego, Ninyo & Moore Project No. 106442029: dated August 31.

Ninyo & Moore, 2025, Proposal for Geotechnical Evaluation with Environmental Analytical testing, Medical Center La Jolla Outpatient Pavilion (OPP), University of California (UC) San Diego, California, UC San Diego Project No. 5671, Proposal No. 110064001: dated April 4.

Norris, R. M. and Webb, R. W., 1990, Geology of California, Second Edition: John Wiley & Sons, Inc.

Nova, 2021, Geotechnical Investigation, 5301 Viterbi Family Vision Research Center, La Jolla, California: dated September 23.

Nova, 2022, Pavement Investigation, 4535 P702 Surface parking Lot, Voight Drive and Campus Point Drive, La Jolla, California: dated January 19.

Nova, 2023, Geotechnical Addendum, Supplemental Field Investigation and Soil-Cement Mix Design, Viterbi Family Vision Research Center, La Jolla, California, UC San Diego Job No. 5301: dated January 6.

Rockwell, T.K., Lindvall, S.C. Haraden, C.C., Hirabayashi, C.K., and Baker, E., 1991, Minimum Holocene Slip Rate for the Rose Canyon Fault in San Diego, California in Abbott, P.L. and Elliott, W.J., eds., Environment Perils, San Diego Region: San Diego Association of Geologists.

SanGIS, 2009, Draft Map – Dam Failure, County of San Diego Hazard Mitigation Planning.

Tan, S.S., 1995, Landslide Hazards in the Southern Part of the San Diego Metropolitan Area, San Diego County, California, California Geological Survey: Landslide Hazards Identification Map No. 33, DMG OFR 95-03.

Treiman, J.A., and Lundberg, M., compilers, 1999, Fault number 125b, San Jacinto fault, San Jacinto Valley section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults.

United States Department of Agriculture (USDA), Natural Resources Conservation Service, 2025, Web Soil Survey: accessed in July.

United States Department of the Interior, Bureau of Reclamation, 1989, Engineering Geology Field Manual.

United States Federal Emergency Management Agency (FEMA), 2012, Flood Insurance Rate Map (FIRM), Map Number 06073C1338G: map revised May 16.

United States Geological Survey (USGS), 2015, Del Mar Quadrangle, California, 7.5-Minute Series, Scale 1:24,000.

United States Geological Survey, 2025a, 2008 National Seismic Hazard Maps - Source Parameters, https://earthquake.usgs.gov/cfusion/hazfaults_2008_search/query_main.cfm: accessed in July.

United States Geological Survey (USGS), 2025b, 2014 Building Seismic Safety Council Scenario Catalog, World Wide Web, https://earthquake.usgs.gov/scenarios/catalog/bssc2014/: accessed in August.

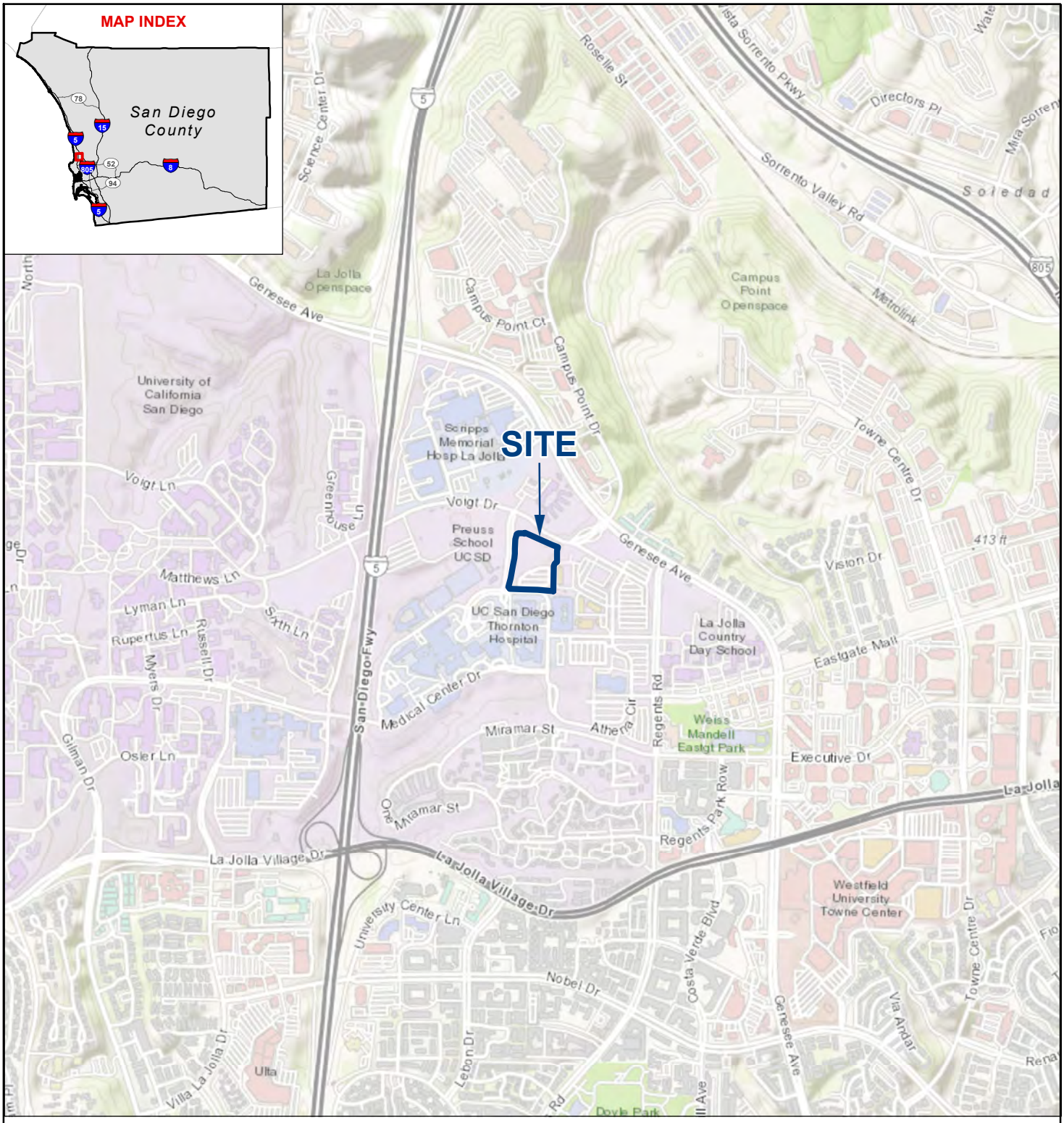
United States Geological Survey, 2025c, U.S. Seismic Design Maps, http://earthquake.usgs.gov/designmaps/us/application.php: accessed in August.

University of California, 2009, Soils Management Policy, Policy & Procedure Manual: dated December 7.

University of California, 2020, CalME: Caltrans Mechanistic-Empirical Tool (Version 3.DD001.3): dated August.

USDA, Aerial Photograph, 1953, Flight AXM-4M, Number 85 and 86, Scale 1:20,000: dated March 31.

FIGURES



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: ESRI WORLD TOPO, 2025

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FIGURE 1

SITE LOCATION

5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA

110064001 | 8/25

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LEGEND

- SITE BOUNDARY
- B-19 (TD=2.5) BORING — TD=TOTAL DEPTH IN FEET
- B B' GEOLOGIC CROSS SECTION
- ReMi SURVEY
- Qaf ARTIFICIAL FILL
- Qvop VERY OLD PARALIC DEPOSITS
- Tsc SCRIPPS FORMATION
- —?— GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN

N

FEET 0 100 200

NOTES:
LAYOUT FOLLOWS THE UCSD GUIDELINES OF ENVIRONMENT, HEALTH, AND SAFETY
DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: GOOGLE EARTH, 2025

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FIGURE 2

Ninyo & Moore
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BORING LOCATIONS
5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA
110064001 | 8/25



NOTES:
bgs - BELOW GROUND SURFACE
mg/kg - MILLIGRAMS PER KILOGRAM
mg/L - MILLIGRAMS PER LITER
J - RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE
TPH - TOTAL PETROLEUM HYDROCARBONS
STLC - SOLUBLE THRESHOLD LIMIT CONCENTRATION
TCLP - TOXICITY CHARACTERISTIC LEACHING PROCEDURE
-- SAMPLE NOT ANALYZED
ANALYTE DETECTED AT OR ABOVE UCSD SCREENING LEVEL AND ABOVE POTENTIAL REGULATED WASTE TRIGGER CRITERIA.
ANALYTE DETECTED AT OR ABOVE POTENTIAL REGULATED WASTE TRIGGER CRITERIA
BOLD ANALYTE DETECTED AT OR ABOVE RESIDENTIAL EPA RSL, DTSC SL, OR SFRWQCB ESL, WHICHEVER IS APPLICABLE FOR THE ANALYTE

NOTES:
LAYOUT FOLLOWS THE UCSD GUIDELINES OF ENVIRONMENT, HEALTH, AND SAFETY
DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: GOOGLE EARTH, 2025

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0 100 200

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FIGURE 3

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METAL CONCENTRATIONS WITH EXCEEDANCES

5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA
110064001 | 8/25



B-1	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	220
5	100
10	90

B-2	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	550
5	29
10	11 J

B-3	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	64
5	30
10	8.8

B-4	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	79
5	24 J
10	28

B-5	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	140
5	35
8	17

B-6	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.6
5	ND<4.5
10	9.6 J

B-7	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.6
5	4.9 J
10	ND<4.5

B-8	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.6
5	91
10	13 J

B-9	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.5
5	ND<4.6
10	ND<4.6

B-10	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.5
5	ND<4.5
10	ND<4.5

B-11	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	**700**
5	18 J
10	14 J
15	9.9 J

B-12	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	5.6 J
5	ND<4.5
10	ND<4.6

B-13	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	14
5	17
10	11 J

B-14	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.6
5	ND<4.5
10	ND<4.5

B-15	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	ND<4.6
5	ND<4.5
10	ND<4.6

B-16	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	8.6 J

B-17	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	8.6 J

B-18	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	190

B-19	
Depth (feet bgs)	TPH (C6-C44) (mg/kg)
2	270

NOTES:
bgs - BELOW GROUND SURFACE
mg/kg - MILLIGRAMS PER KILOGRAM
J - RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE
TPH - TOTAL PETROLEUM HYDROCARBONS

ANALYTE DETECTED AT OR ABOVE UCSD SCREENING LEVEL AND ABOVE POTENTIAL REGULATED WASTE TRIGGER CRITERIA.
ANALYTE DETECTED AT OR ABOVE POTENTIAL REGULATED WASTE TRIGGER CRITERIA
BOLD ANALYTE DETECTED AT OR ABOVE RESIDENTIAL EPA RSL, DTSC SL, OR SFRWQCB ESL, WHICHEVER IS APPLICABLE FOR THE ANALYTE

NOTES:
LAYOUT FOLLOWS THE UCSD GUIDELINES OF ENVIRONMENT, HEALTH, AND SAFETY
DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: GOOGLE EARTH, 2025

N

FEET
0 100 200

4_110064001_SSAR_TPH.mxd 8/12/2025 AOB

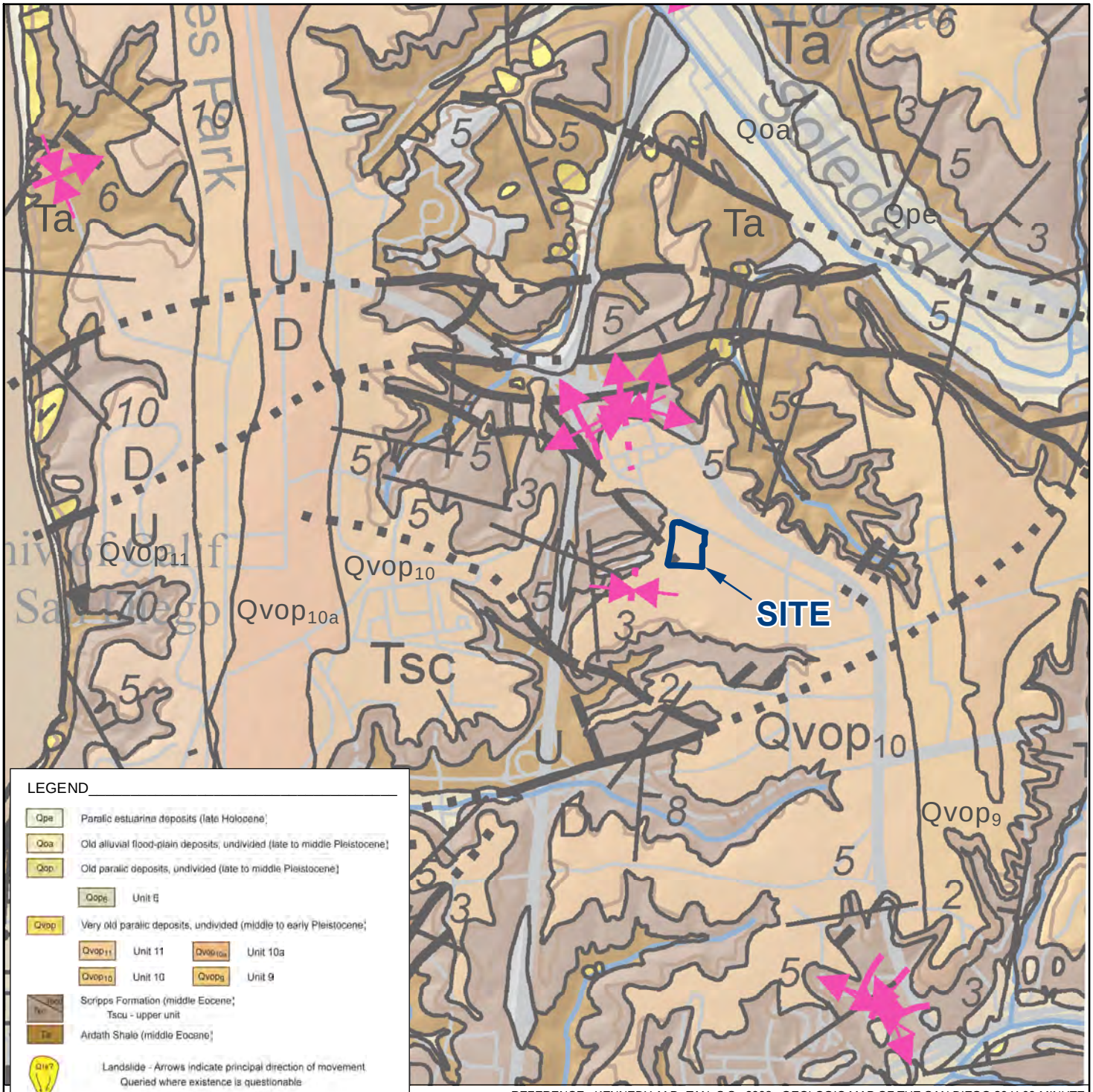
FIGURE 4

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SOIL SAMPLE ANALYTICAL RESULTS - TPH

5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA

110064001 | 8/25



LEGEND

- Qpe — Paralic estuarine deposits (late Holocene)
- Qoa — Old alluvial flood-plain deposits, undivided (late to middle Pleistocene)
- Qop — Old paralic deposits, undivided (late to middle Pleistocene)
  - Qope — Unit E
- Qvop — Very old paralic deposits, undivided (middle to early Pleistocene)
  - Qvop11 — Unit 11
  - Qvop10a — Unit 10a
  - Qvop10 — Unit 10
  - Qvop9 — Unit 9
- Tsc — Scripps Formation (middle Eocene)
  - Tscu - upper unit
- Ta — Ardath Shale (middle Eocene)
- Qls? — Landslide - Arrows indicate principal direction of movement. Queried where existence is questionable
- 70 U D — Fault - Solid where accurately located; dashed where approximately located; dotted where concealed. U = upthrown block, D = downthrown block. Arrow and number indicate direction and angle of dip of fault plane.
- Strike and dip of beds
- 70 — Inclined
- Anticline - Solid where accurately located; dashed where approximately located; dotted where concealed. Arrow indicates direction of axial plunge.
- Syncline - Solid where accurately located; dotted where concealed. Arrow indicates direction of axial plunge.

REFERENCE: KENNEDY, M.P., TAN, S.S., 2008, GEOLOGIC MAP OF THE SAN DIEGO 30 X 60-MINUTE QUADRANGLE, CALIFORNIA

N

FEET

0 2,000 4,000

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

5_110064001_G.mxd 8/11/2025 AOB

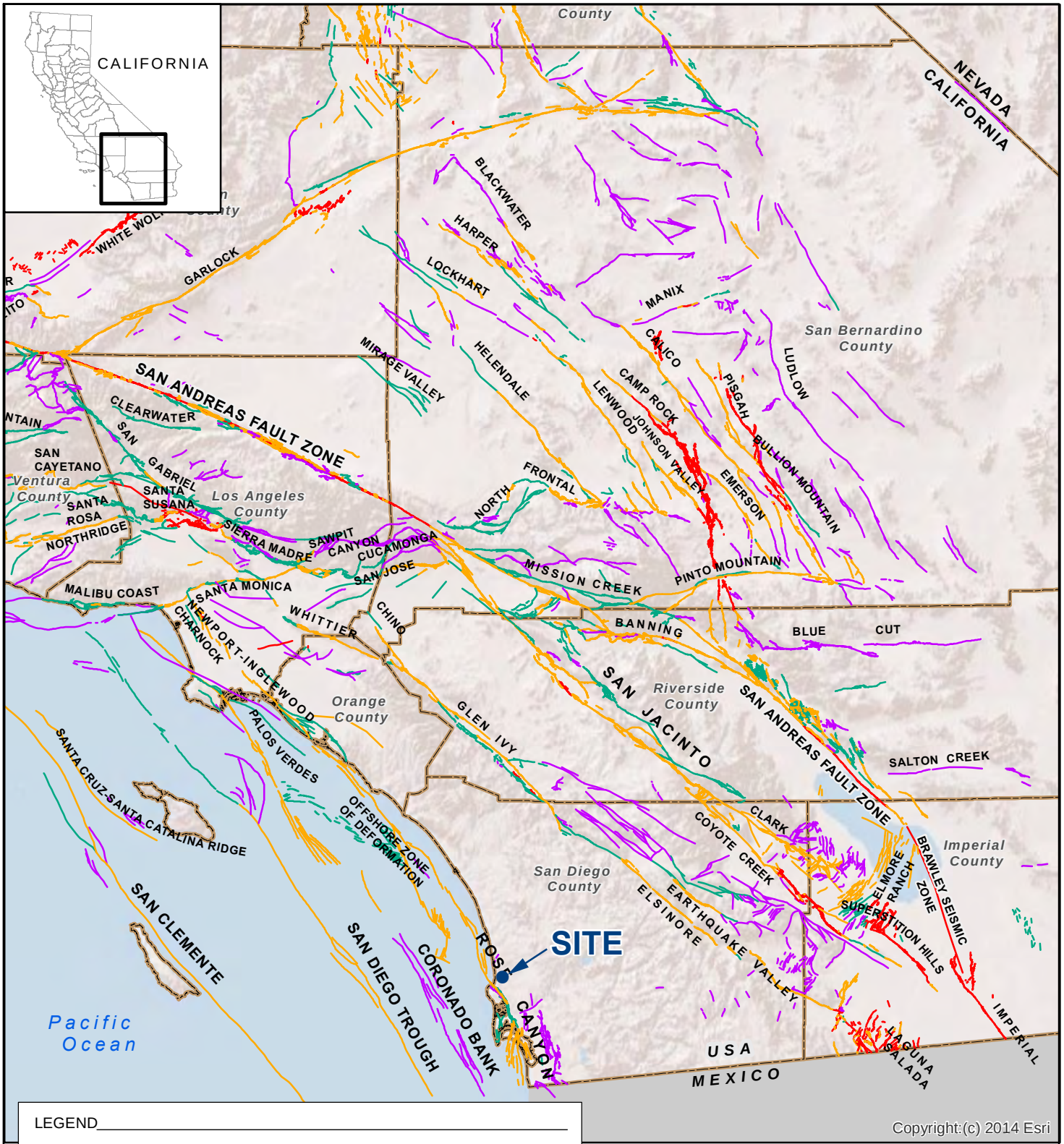
FIGURE 5

GEOLOGY

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UC SAN DIEGO
LA JOLLA, CALIFORNIA

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LEGEND

CALIFORNIA FAULT ACTIVITY

- HISTORICALLY ACTIVE
- HOLOCENE ACTIVE
- LATE QUATERNARY (POTENTIALLY ACTIVE)
- QUATERNARY (POTENTIALLY ACTIVE)
- STATE/COUNTY BOUNDARY

SOURCE: U.S. GEOLOGICAL SURVEY AND CALIFORNIA GEOLOGICAL SURVEY, 2006, QUATERNARY FAULT AND FOLD DATABASE FOR THE UNITED STATES.

N

MILES

0 30 60

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

6_110064001_FL.mxd 8/13/2025 AOB

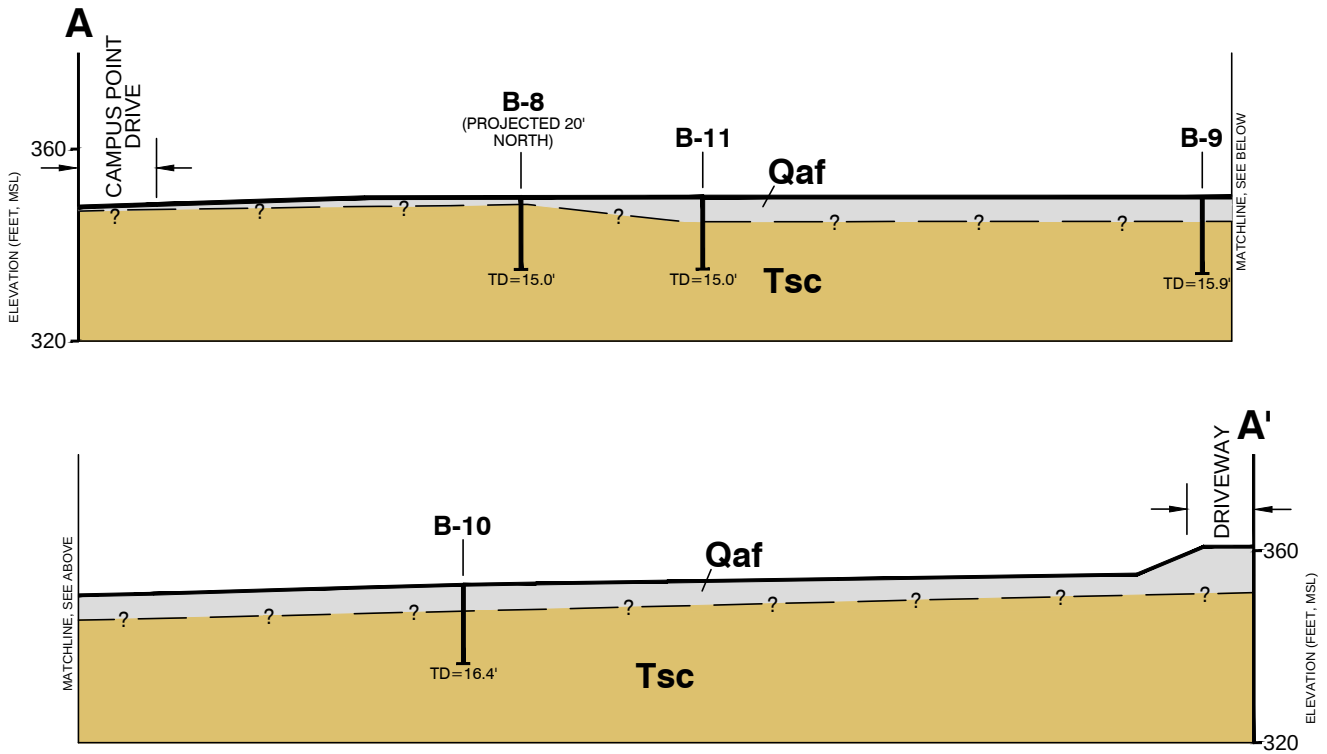
FIGURE 6

FAULT LOCATIONS

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UC SAN DIEGO
LA JOLLA, CALIFORNIA

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LEGEND

B-11 (TD=15.0')	BORING TD=TOTAL DEPTH IN FEET
Qaf	FILL
Tsc	SCRIPPS FORMATION
—— ? ——	GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN

NOTE: SURFACE ELEVATION SHOWN IS BASED ON GRADES AT THE TIME OF OUR EVALUATION AND ELEVATIONS MAY VARY AS A RESULT OF ONGOING CONSTRUCTION ACTIVITIES.

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

FEET
0 40 80

7A 110064001 CS A-A'.DWG 8/12/25 AOB

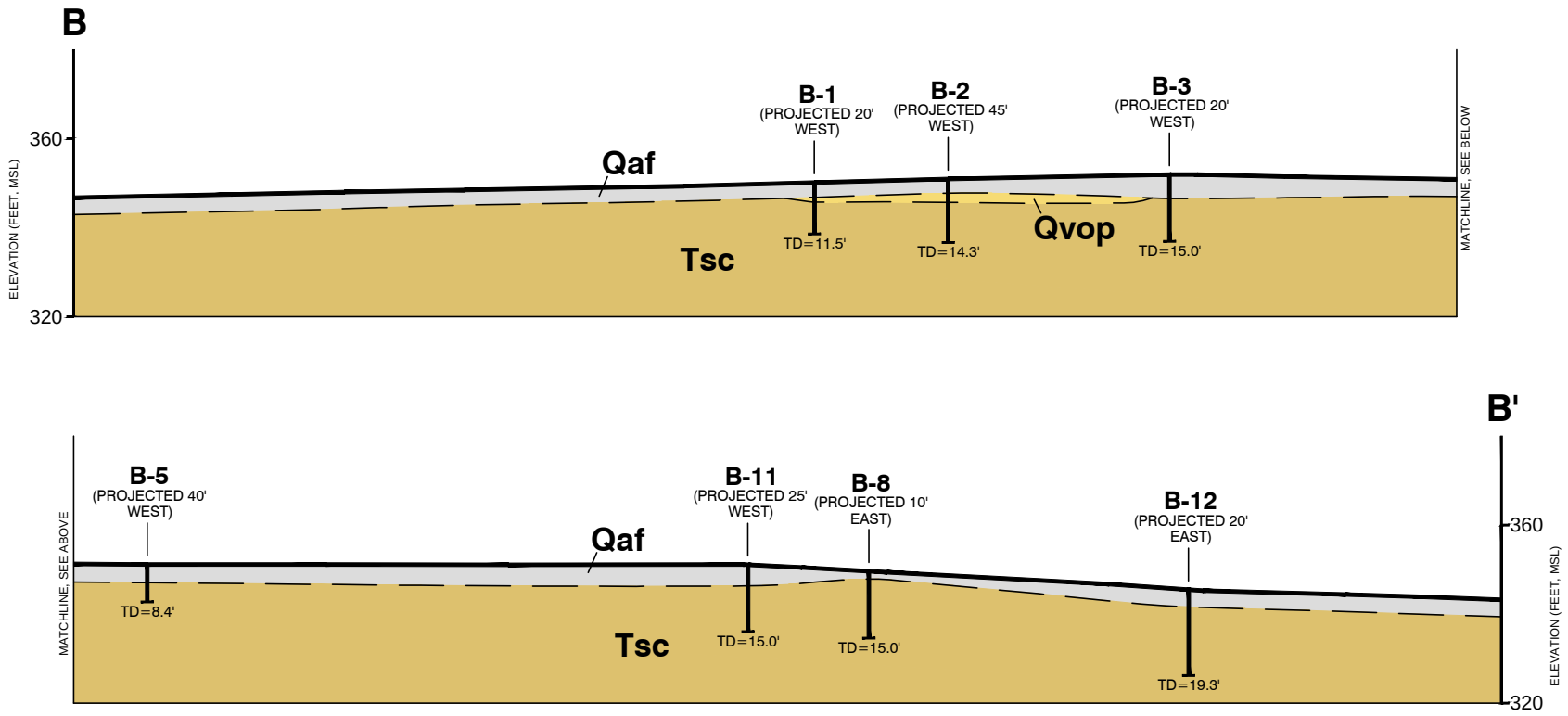
FIGURE 7A

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GEOLOGIC CROSS SECTION A-A'

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UC SAN DIEGO
LA JOLLA, CALIFORNIA

110064001 I 8/25



LEGEND

B-12 I TD=19.3'	BORING TD=TOTAL DEPTH IN FEET
Qaf	FILL
Qvop	VERY OLD PARALIC DEPOSITS
Tsc	SCRIPPS FORMATION
—— ? ——	GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN

NOTE: SURFACE ELEVATION SHOWN IS BASED ON GRADES AT THE TIME OF OUR EVALUATION AND ELEVATIONS MAY VARY AS A RESULT OF ONGOING CONSTRUCTION ACTIVITIES.

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

FEET
0 40 80

7B 110064001 CS B-B'.DWG 8/13/25 AOB

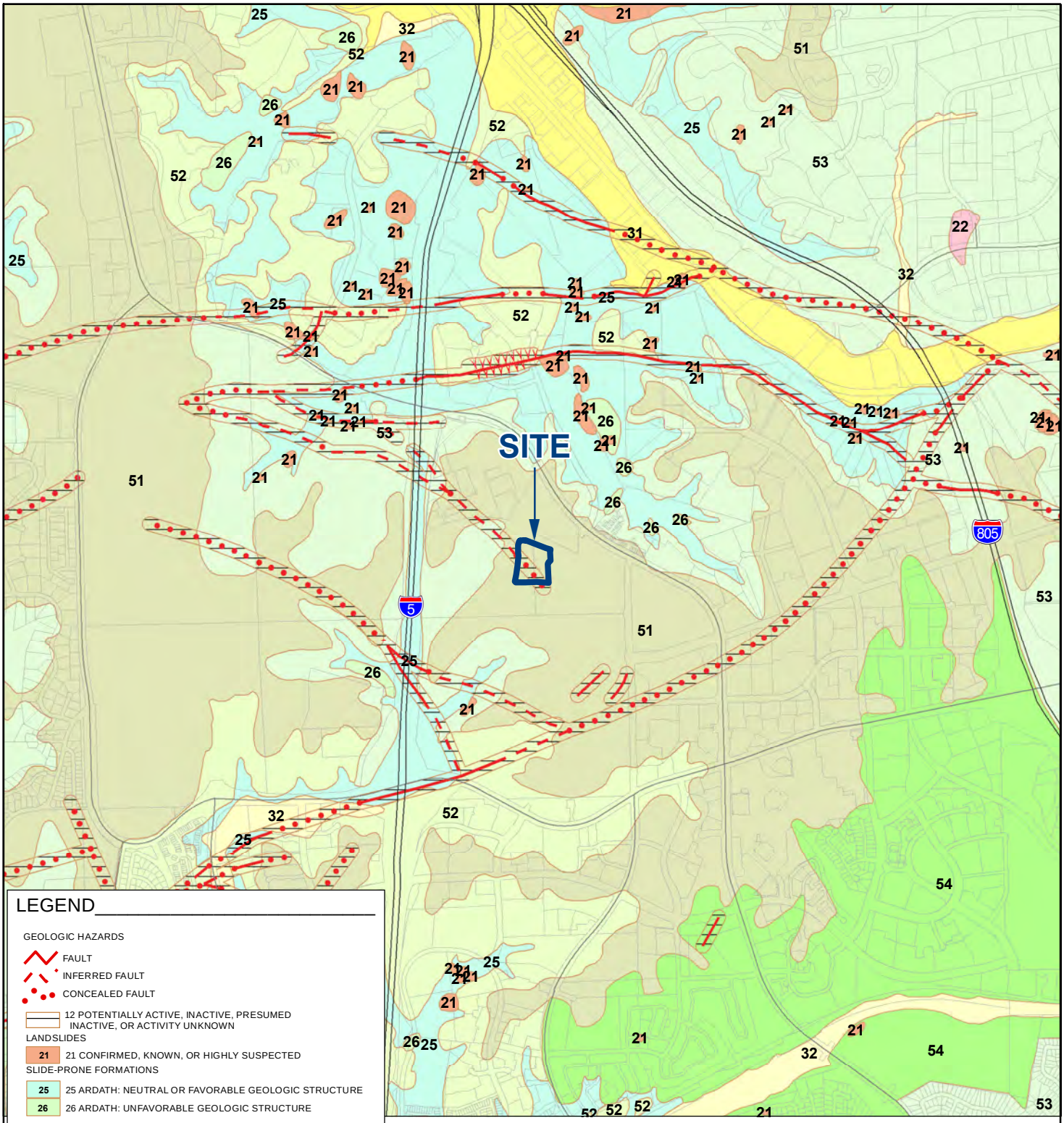
FIGURE 7B

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GEOLOGIC CROSS SECTION B-B'

5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA

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SOURCE: CITY OF SAN DIEGO SEISMIC SAFETY STUDY GEOLOGIC HAZARDS AND FAULTS, SANGIS, 2008

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

8_110064001_GH.mxd 8/11/2025 AOB

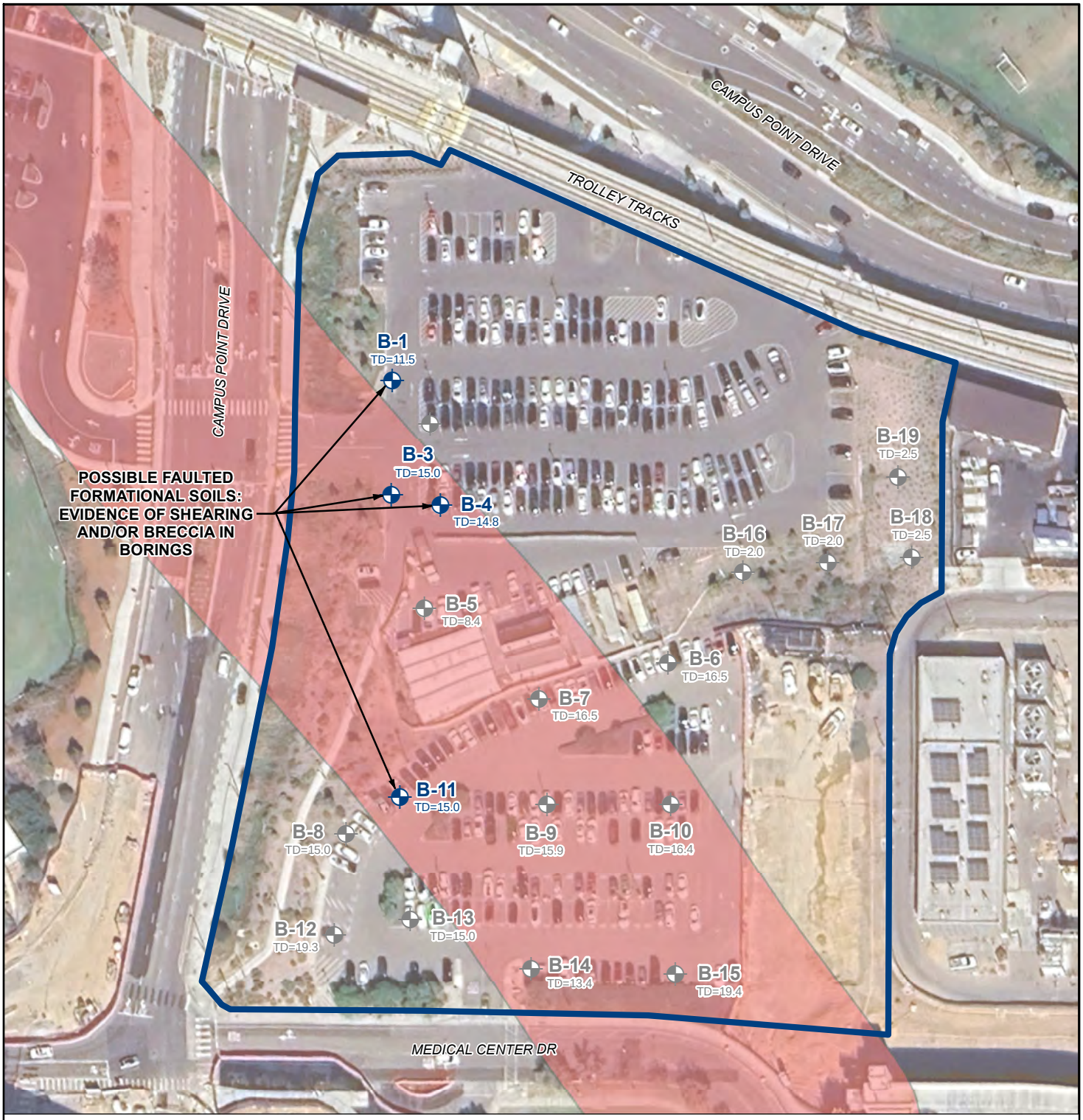
FIGURE 8

GEOLOGIC HAZARDS

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UC SAN DIEGO
LA JOLLA, CALIFORNIA

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SOURCE: CITY OF SAN DIEGO SEISMIC SAFETY STUDY GEOLOGIC HAZARDS AND FAULTS, SANGIS, 2008
GOOGLE EARTH, 2025

LEGEND

SITE BOUNDARY

B-11
TD=15.0
BORING
TD=TOTAL DEPTH IN FEET

CITY OF SAN DIEGO HAZARD CATEGORY 12: POTENTIALLY ACTIVE, INACTIVE, PRESUMED INACTIVE, OR ACTIVITY UNKNOWN

N

FEET
0 100 200

NOTES:
LAYOUT FOLLOWS THE UCSD GUIDELINES OF ENVIRONMENT, HEALTH, AND SAFETY
DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

9_110064001_FZ.mxd 8/13/2025 AOB

FIGURE 9

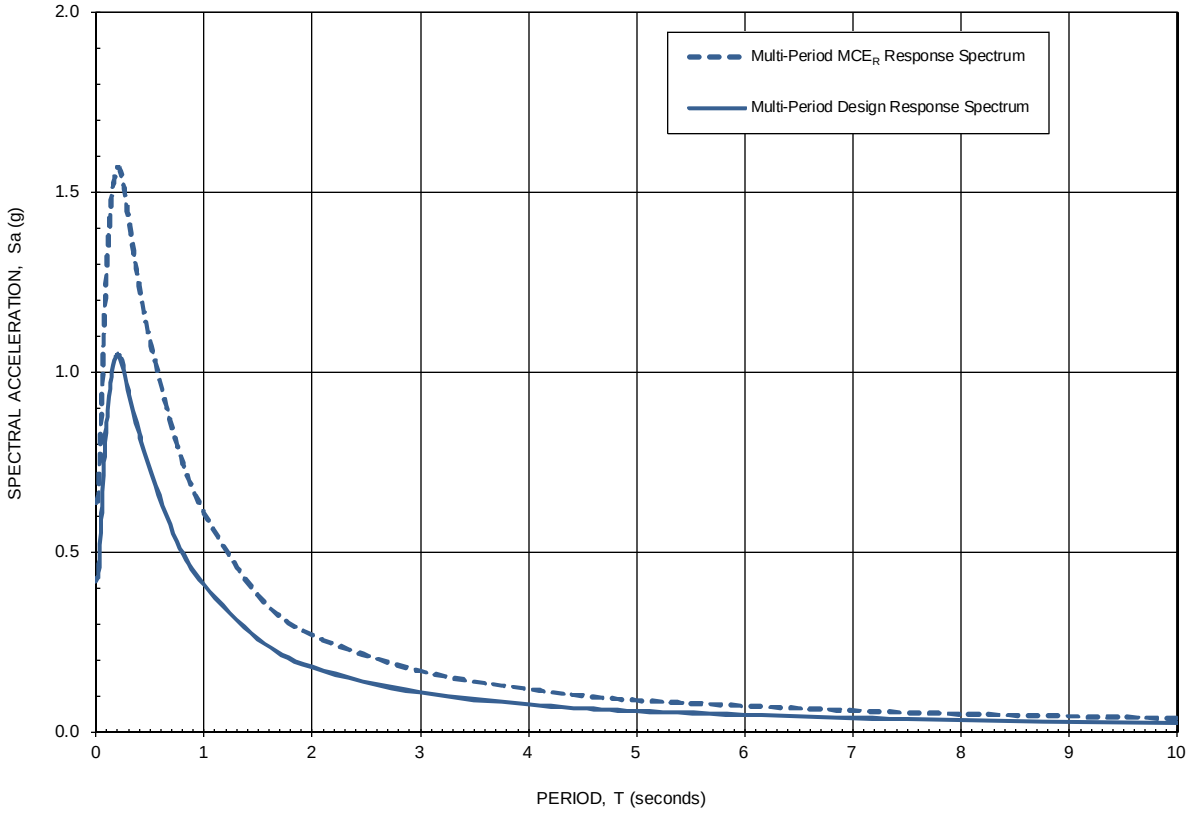
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INACTIVE, POTENTIALLY ACTIVE, ACTIVITY UNKOWN FAULT ZONE
5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO
LA JOLLA, CALIFORNIA
110064001 | 8/25

PERIOD (seconds)	MULTI-PERIOD MCE_R RESPONSE SPECTRUM Sa (g)	MULTI-PERIOD DESIGN RESPONSE SPECTRUM Sa (g)
0.00	0.640	0.420
0.01	0.640	0.430
0.02	0.650	0.430
0.03	0.710	0.470
0.05	0.880	0.590
0.08	1.120	0.750
0.10	1.290	0.860
0.15	1.500	1.000
0.20	1.570	1.050
0.25	1.530	1.020
0.30	1.430	0.950

PERIOD (seconds)	MULTI-PERIOD MCE_R RESPONSE SPECTRUM Sa (g)	MULTI-PERIOD DESIGN RESPONSE SPECTRUM Sa (g)
0.40	1.240	0.830
0.50	1.090	0.730
0.75	0.800	0.530
1.00	0.610	0.410
1.50	0.380	0.260
2.00	0.270	0.180
3.00	0.170	0.110
4.00	0.120	0.078
5.00	0.089	0.059
7.50	0.055	0.037
10.00	0.039	0.026

S_{MS} = 1.410 g	S_{M1} = 0.610 g	S_{DS} = 0.940 g	S_{D1} = 0.410 g	PGA_M = 0.600 g



NOTES:

1 The multi-period design and MCE_R response spectra were computed from the USGS Seismic Design Geodatabase per ASCE 7-22 Section 11.4.

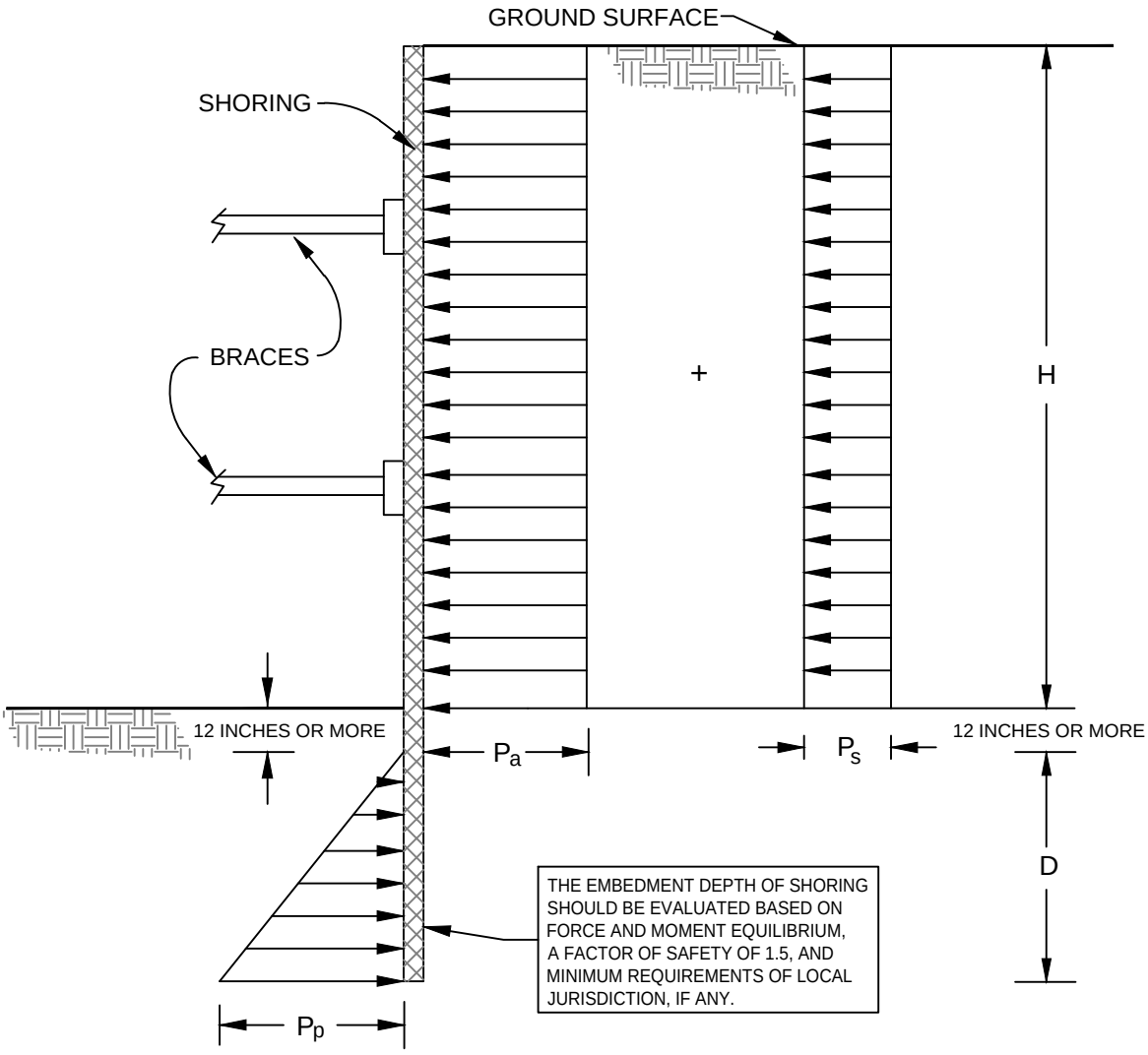
2 The response spectra are based on Site Class C (Very Dense Sand or Hard Clay).

FIGURE 10

ACCELERATION RESPONSE SPECTRA

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NOTES:

1. APPARENT LATERAL EARTH PRESSURE, P_a
   P_a = 28H psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
   P_s = 120 psf
3. PASSIVE LATERAL EARTH PRESSURE, P_p
   P_p = 400D psf
4. ASSUMES GROUNDWATER IS NOT PRESENT
5. SURCHARGES FROM EXCAVATED SOIL OR CONSTRUCTION MATERIALS ARE NOT INCLUDED
6. H AND D ARE IN FEET

NOT TO SCALE

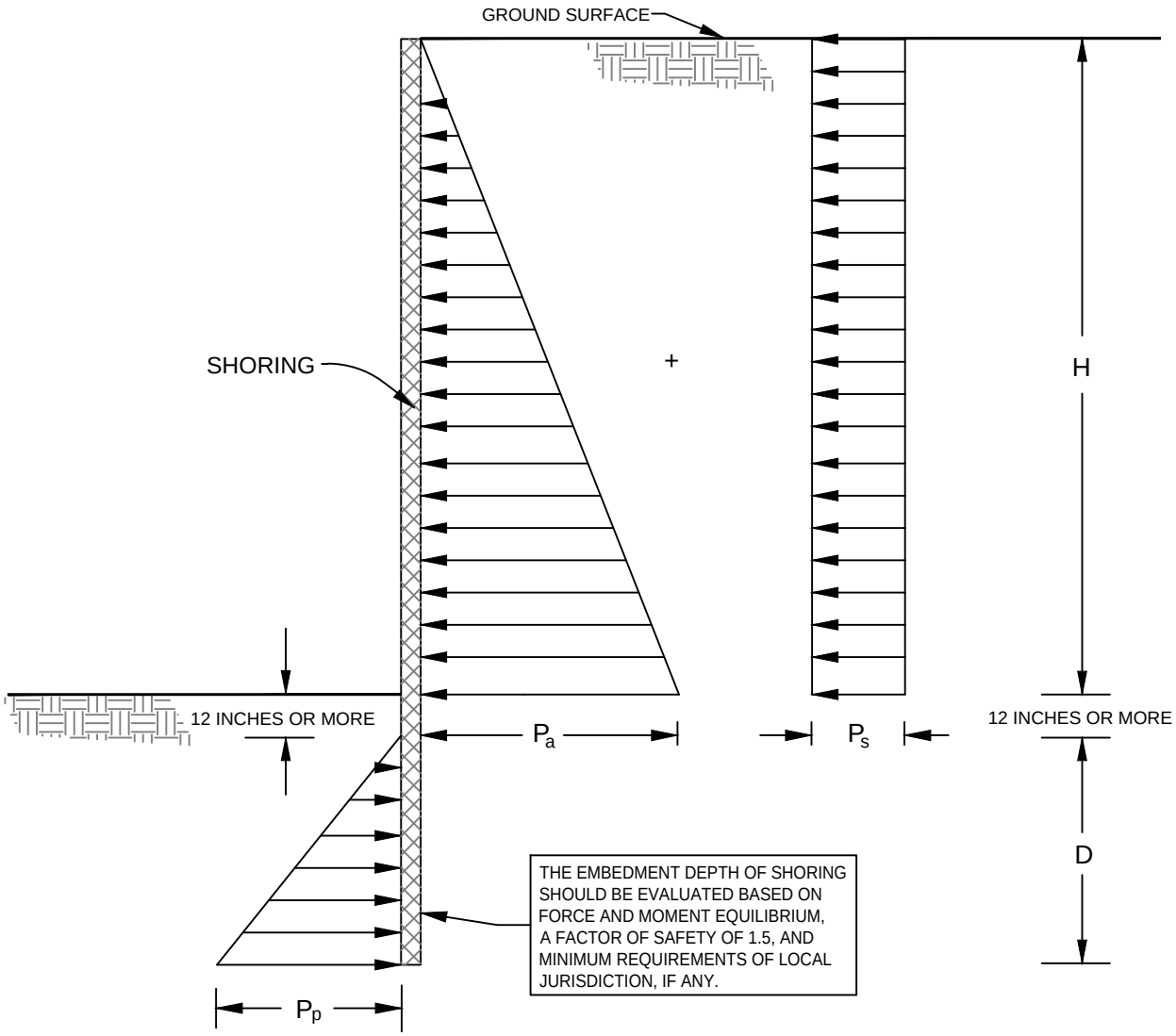
110064001 Details.dwg_LEP-BE(GS) 08/13/2025 DRAFTED BY: AOB

FIGURE 11

LATERAL EARTH PRESSURES FOR BRACED EXCAVATION

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NOTES:

1. ACTIVE LATERAL EARTH PRESSURE, P_a
   P_a = 40H psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
   P_s = 72 psf
3. PASSIVE LATERAL EARTH PRESSURE, P_p
   P_p = 400D psf
4. ASSUMES GROUNDWATER IS NOT PRESENT
5. H AND D ARE IN FEET

NOT TO SCALE

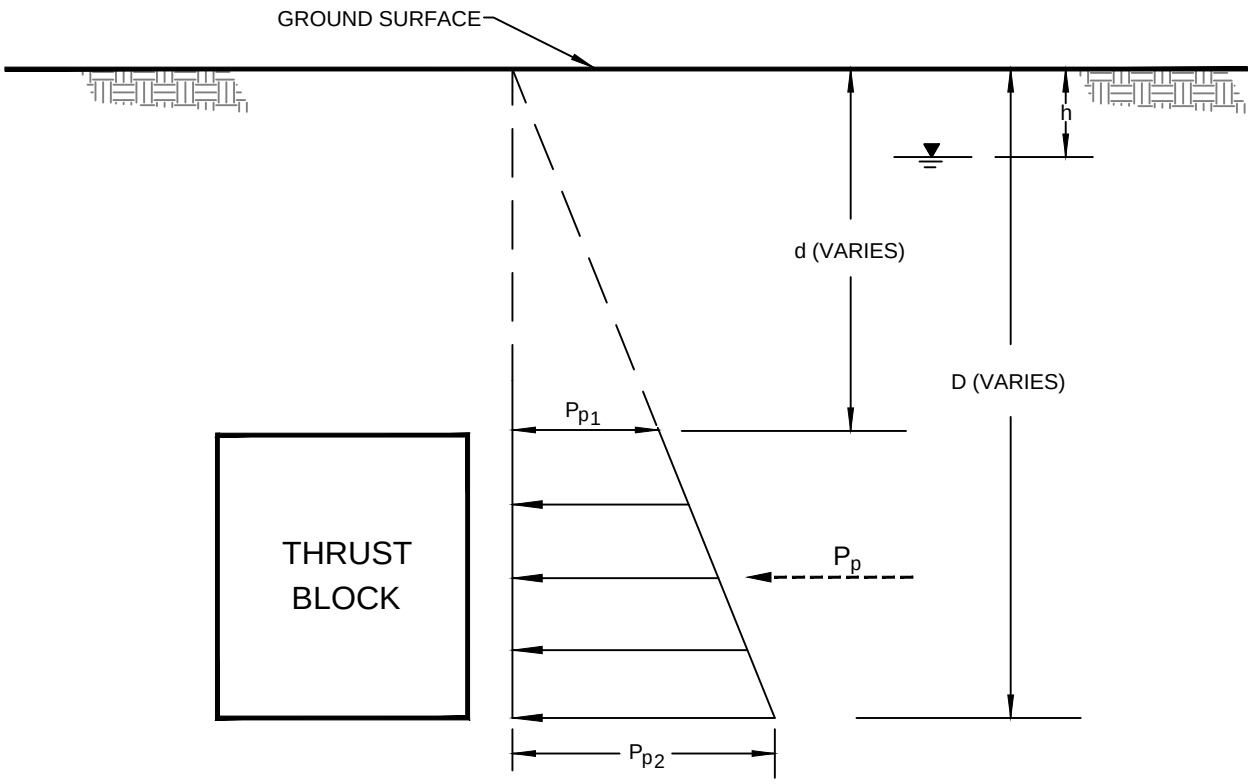
110064001 Details.dwg_LEP-CS 08/13/2025 DRAFTED BY: AOB

FIGURE 12

LATERAL EARTH PRESSURES FOR TEMPORARY CANTILEVERED SHORING

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NOTES:

1. GROUNDWATER BELOW BLOCK
   $P_p = 200(D^2-d^2)$ lb/ft
2. GROUNDWATER ABOVE BLOCK
   $P_p = 1.3(D - d)[124.8h + 57(D+d)]$ lb/ft
3. ASSUMES BACKFILL IS GRANULAR MATERIAL
4. ASSUMES THRUST BLOCK IS ADJACENT TO COMPETENT MATERIAL
5. D, d AND h ARE IN FEET
6. ▽ GROUNDWATER TABLE

NOT TO SCALE

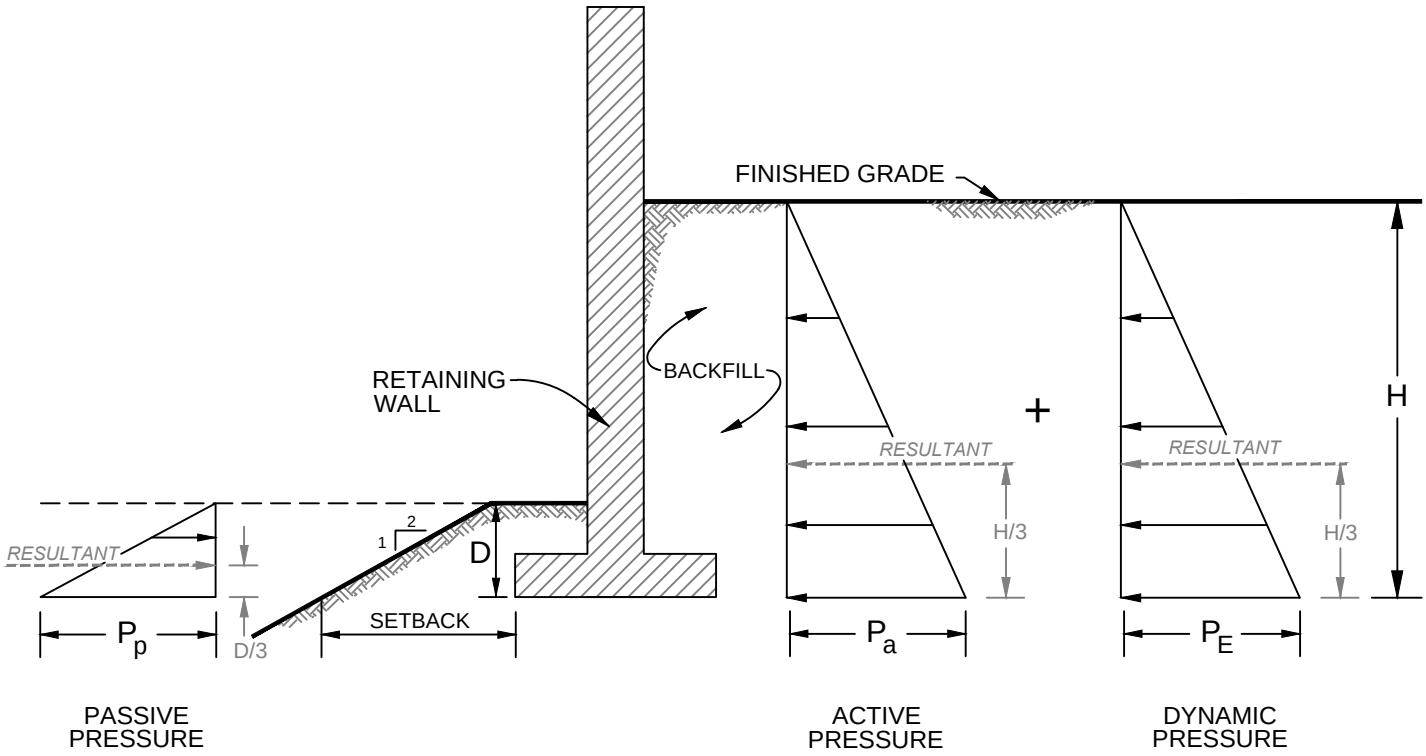
110064001 Details.dwg_LEP-TB 08/13/2025 DRAFTED BY: AOB

FIGURE 13

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THRUST BLOCK LATERAL EARTH PRESSURE DIAGRAM

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UC SAN DIEGO
LA JOLLA, CALIFORNIA
110064001 I 8/25



NOTES:

1. ASSUMES NO HYDROSTATIC PRESSURE BUILD-UP BEHIND THE RETAINING WALL
2. GRANULAR BACKFILL MATERIALS SHOULD BE USED FOR RETAINING WALL BACKFILL
3. DRAINS AS RECOMMENDED IN THE RETAINING WALL DRAINAGE DETAIL SHOULD BE INSTALLED BEHIND THE RETAINING WALL
4. DYNAMIC LATERAL EARTH PRESSURE IS BASED ON A MAPPED DESIGN PEAK GROUND ACCELERATION OF 0.6 g
5. P_E IS CALCULATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF MONONOBE AND MATSUO (1929), AND ATIK AND SITAR (2010), AND AGUSTI AND SITAR (2013)
6. SURCHARGE PRESSURES CAUSED BY VEHICLES OR NEARBY STRUCTURES ARE NOT INCLUDED
7. H AND D ARE IN FEET
8. SETBACK SHOULD BE IN ACCORDANCE WITH THE CBC

RECOMMENDED GEOTECHNICAL DESIGN PARAMETERS

Lateral Earth Pressure	Equivalent Fluid Pressure ($lb/ft^2/ft$)[1]	
P_a	Level Backfill with Granular Soils[2]	2H:1V Sloping Backfill with Granular Soils[2]
	40H	65H
P_E	19H	32H
P_p	Level Ground	2H:1V Descending Ground
	350D	120D

NOT TO SCALE

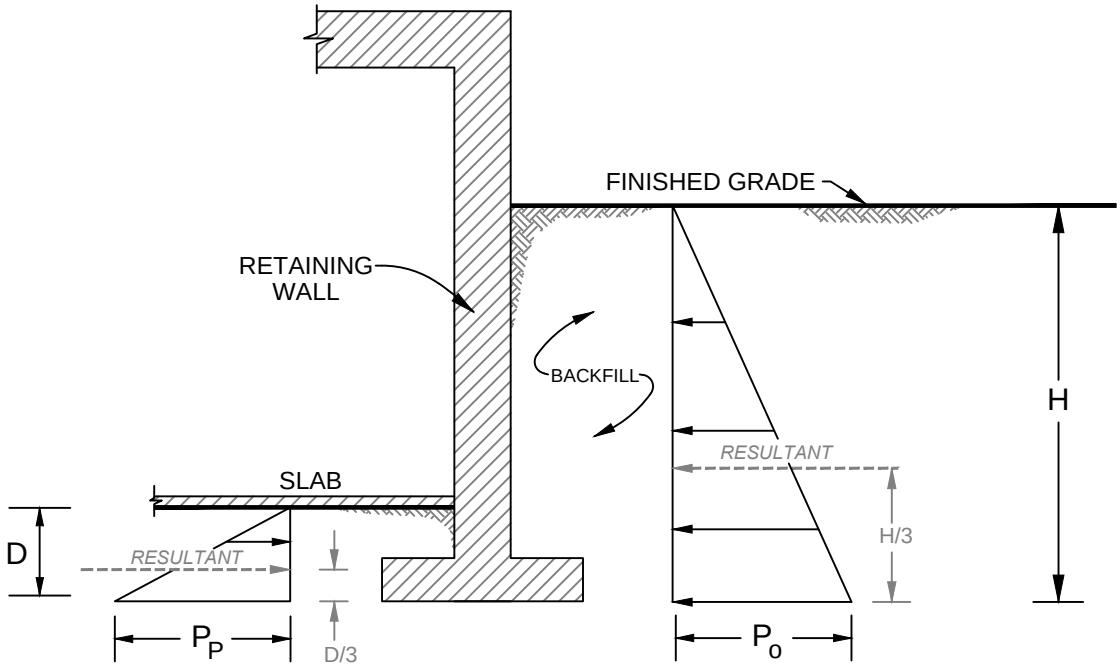
110064001 DETAILS.DWG AOB

FIGURE 14

LATERAL EARTH PRESSURES FOR YIELDING RETAINING WALLS

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UC SAN DIEGO
LA JOLLA, CALIFORNIA
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NOTES:

1. ASSUMES NO HYDROSTATIC PRESSURE BUILD-UP BEHIND THE RETAINING WALL
2. GRANULAR BACKFILL MATERIALS SHOULD BE USED FOR RETAINING WALL BACKFILL
3. DRAINS AS RECOMMENDED IN THE RETAINING WALL DRAINAGE DETAIL SHOULD BE INSTALLED BEHIND THE RETAINING WALL
4. DYNAMIC LATERAL EARTH PRESSURE IS IGNORED AND DEEMED INAPPLICABLE DUE TO THE AT-REST CONDITION OF THE RETAINING WALL
5. SURCHARGE PRESSURES CAUSED BY VEHICLES OR NEARBY STRUCTURES ARE NOT INCLUDED
6. H AND D ARE IN FEET

RECOMMENDED GEOTECHNICAL DESIGN PARAMETERS

Lateral Earth Pressure	Equivalent Fluid Pressure ($lb/ft^2/ft$)[1]	
P_O	Level Backfill with Granular Soils[2]	2H:1V Sloping Backfill with Granular Soils[2]
	60H	87H
P_P	Level Ground	2H:1V Descending Ground
	350D	120D

NOT TO SCALE

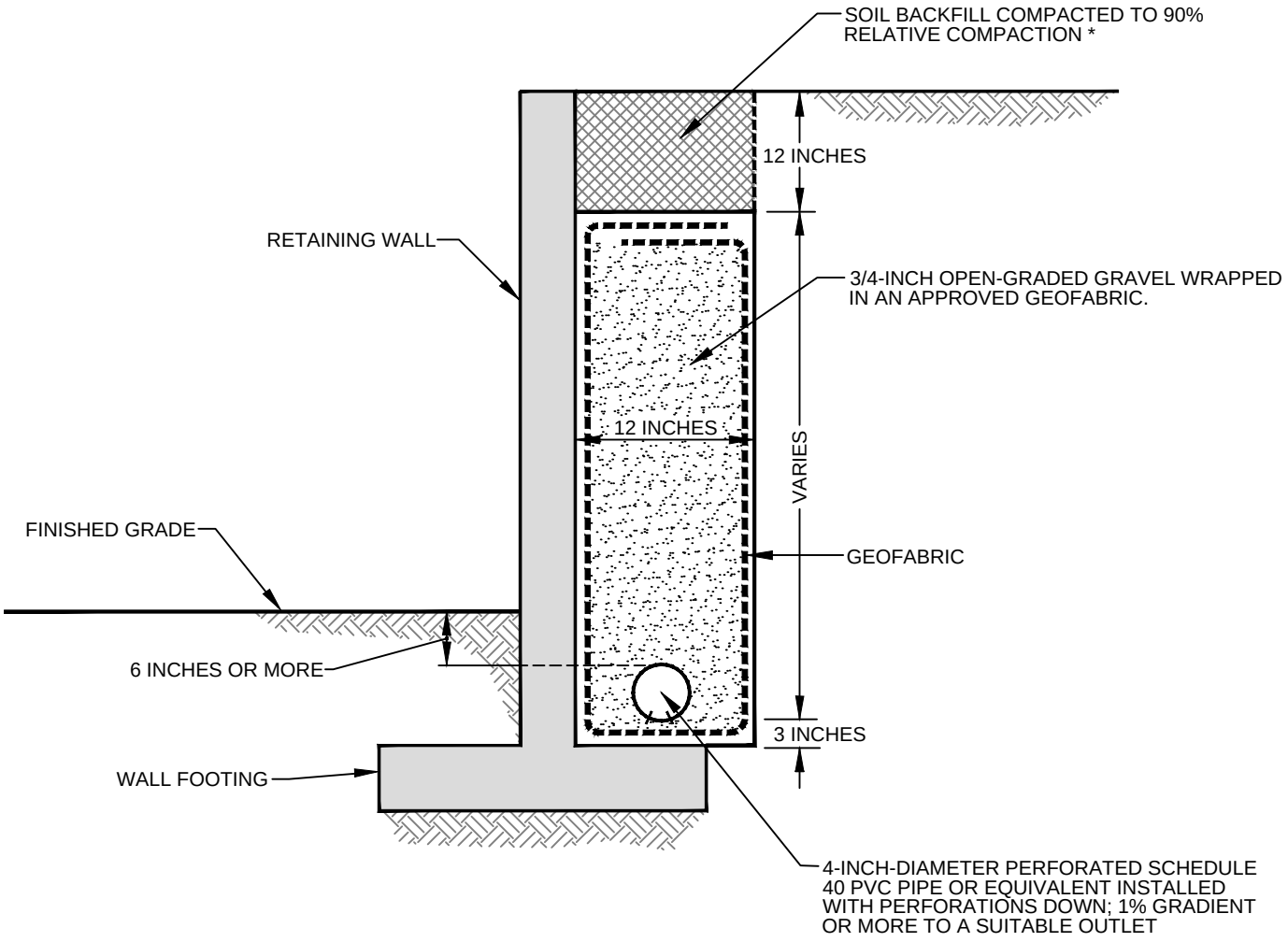
110064001 Details.dwg_LEP-RRW1 08/13/2025 DRAFTED BY: AOB

FIGURE 15

LATERAL EARTH PRESSURES FOR RESTRAINED RETAINING WALLS

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*BASED ON ASTM D1557

NOT TO SCALE

110064001 Details.dwg_RWDD2 08/11/2025 DRAFTED BY: AOB

FIGURE 16

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RETAINING WALL DRAINAGE DETAIL

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UC SAN DIEGO
LA JOLLA, CALIFORNIA

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APPENDIX A

Boring Logs

APPENDIX A

BORING LOGS

Field Procedure for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test (SPT) Sampler

Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of 1-3/8 inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer free-falling from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

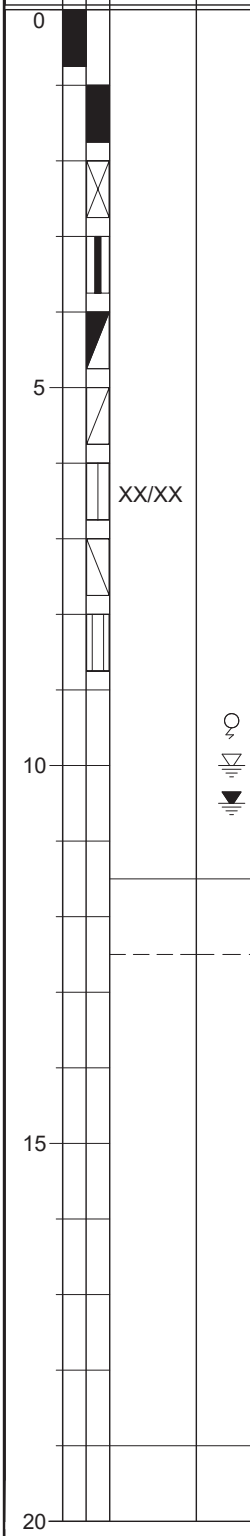
Field Procedure for the Collection of Relatively Undisturbed Samples

Relatively undisturbed soil samples were obtained in the field using the following method.

The Modified Split-Barrel Drive Sampler

Relatively undisturbed soil samples were obtained in the field using the Modified Split-Barrel Drive Sampler. The sampler, with an external diameter of 3.0 inches, was lined with 1-inch long, thin brass rings with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a 140-pound hammer, in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring logs as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

BORING LOG EXPLANATION SHEET



Bulk sample.

Modified split-barrel drive sampler.

No recovery with modified split-barrel drive sampler.

Sample retained by others.

Standard Penetration Test (SPT).

No recovery with a SPT.

Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.

No recovery with Shelby tube sampler.

Continuous Push Sample.

Seepage.

Groundwater encountered during drilling.

Groundwater measured after drilling.

SM

MAJOR MATERIAL TYPE (SOIL):

Solid line denotes unit change.

CL

Dashed line denotes material change.

Attitudes: Strike/Dip
b: Bedding
c: Contact
j: Joint
f: Fracture
F: Fault
cs: Clay Seam
s: Shear
bss: Basal Slide Surface
sf: Shear Fracture
sz: Shear Zone
sbs: Shear Bedding Surface

The total depth line is a solid line that is drawn at the bottom of the boring.

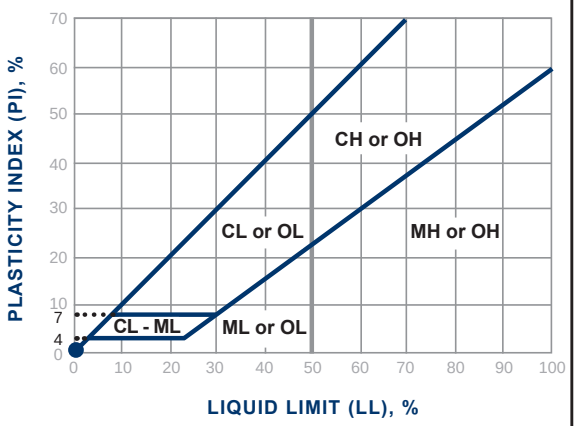
Soil Classification Chart Per ASTM D 2488

Primary Divisions			Secondary Divisions	
			Group Symbol	Group Name
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	**GRAVEL** more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with clay
		GRAVEL with FINES more than 12% fines	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW	well-graded SAND
			SP	poorly graded SAND
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
			SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
		SAND with FINES more than 12% fines	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	**SILT and CLAY** liquid limit less than 50%	INORGANIC	CL	lean CLAY
			ML	SILT
			CL-ML	silty CLAY
		ORGANIC	OL (PI > 4)	organic CLAY
			OL (PI < 4)	organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
			OH (plots below "A"-line)	organic SILT
	Highly Organic Soils		PT	Peat

Grain Size

Description		Sieve Size	Grain Size	Approximate Size
Boulders		> 12"	> 12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized
	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized
Fines		Passing #200	< 0.0029"	Flour-sized and smaller

Plasticity Chart



Apparent Density - Coarse-Grained Soil

Apparent Density	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

Consistency - Fine-Grained Soil

Consis-tency	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

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USCS METHOD OF SOIL CLASSIFICATION

DATE DRILLED 6/2/25 BORING NO. B-1

GROUND ELEVATION 354'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT CONCRETE: Approximately 4 inches thick.
						GW	AGGREGATE BASE: Approximately 6 inches thick.
						SM	FILL: Yellowish brown to brown, moist, medium dense, silty fine to medium SAND; scattered gravel.
							SCRIPPS FORMATION: Yellowish brown to gray, reddish brown mottled, moist, moderately cemented, fine sandy SILTSTONE.
5							Continuous core sample 5-11.5'; poor recovery.
							Reddish brown to gray.
10							Gray to brown; moderately to strongly cemented; refusal.
							Total Depth = 11.5 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/2/25.
15							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/3/25 BORING NO. B-2

GROUND ELEVATION 354'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT CONCRETE: Approximately 5 inches thick.
						GW	AGGREGATE BASE: Approximately 6 inches thick.
						SM	FILL: Brown, moist, medium dense, silty SAND.
							VERY OLD PARALIC DEPOSITS: Reddish brown to brown, moist, weakly to moderately cemented, silty fine- to coarse-grained SANDSTONE. Scattered gravel and cobbles at 4 feet.
5		52					SCRIPPS FORMATION: Gray to yellowish brown, moist, moderately cemented, fine sandy SILTSTONE.
		59					
		54					Reddish brown.
10		50/5"					Yellowish to light brown.
		49					Yellowish brown.
		63					
		50/4"					
15							Total Depth = 14.3 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/3/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/2/25 BORING NO. B-3

GROUND ELEVATION 354'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GW	ASPHALT CONCRETE: Approximately 4-1/2 inches thick.
						SM	AGGREGATE BASE: Approximately 6 inches thick.
							FILL: Reddish brown, moist, medium dense, silty fine to medium SAND; scattered gravel.
5							SCRIPPS FORMATION: Yellowish brown to gray, moist, moderately cemented, fine sandy SILTSTONE. Continuous core sample 5-15'; poor recovery.
10							Cobbles. Brown to gray.
15							Total Depth = 15 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/2/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/3/25 BORING NO. B-4

GROUND ELEVATION 354'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GW	ASPHALT CONCRETE: Approximately 4-1/2 inches thick.
						SM	AGGREGATE BASE: Approximately 6 inches thick.
							FILL: Yellowish brown, moist, medium dense, silty fine to coarse SAND; scattered gravel and subrounded cobbles. Light brown to yellowish brown.
5		57					SCRIPPS FORMATION: Gray to reddish brown, moist, moderately cemented, fine sandy SILTSTONE.
		95/11"					Dark brown brecciated sandstone between 6.5 to 6.8 feet.
		49					Yellowish brown.
		50/4"					Gray to yellowish brown, reddish brown mottled.
10		69					Yellowish brown to gray, reddish brown mottled, moist, moderately cemented, silty fine-grained SANDSTONE.
		70					Yellowish brown. Gray, reddish brown mottled.
		89/10"					
15							Total Depth = 14.8 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/3/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/2/25 BORING NO. B-5

GROUND ELEVATION 354'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT CONCRETE: Approximately 5 inches thick.
						GW	AGGREGATE BASE: Approximately 6 inches thick.
						SM	FILL: Yellowish brown, moist, medium dense, silty fine to medium SAND; few to little gravel and trace subrounded cobbles.
5		90/11"					SCRIPPS FORMATION: Yellowish brown to gray, moist, moderately cemented, silty fine- to medium-grained SANDSTONE; scattered subangular gravel. Continuous core sample 5-6.5'. Light brown to yellowish brown. Refusal.
10							Total Depth = 8.4 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/2/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-6

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT CONCRETE: Approximately 3 inches thick.
						GW	AGGREGATE BASE: Approximately 6 inches thick.
						SC	FILL: Brown, moist, medium dense, clayey fine to medium SAND; scattered subangular gravel.
5		58					VERY OLD PARALIC DEPOSITS: Reddish to yellowish brown, moist, moderately cemented, silty fine- to coarse-grained SANDSTONE.
10		38					SCRIPPS FORMATION: Yellowish brown to gray, moist, moderately indurated, clayey SILTSTONE.
15		54					Manganese oxide staining.
							Total Depth = 16.5 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is
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DATE DRILLED 6/4/25 BORING NO. B-6

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20								not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-7

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GW	ASPHALT CONCRETE: Approximately 3 inches thick.
						SM	AGGREGATE BASE: Approximately 4 inches thick.
							FILL: Brown, moist, medium dense, silty fine to coarse SAND; scattered subangular gravel.
5		50/4"					VERY OLD PARALIC DEPOSITS: Reddish to yellowish brown, moist, moderately cemented, silty fine- grained SANDSTONE; trace subangular cobbles.
							SCRIPPS FORMATION: Gray to reddish brown, moist, moderately indurated, clayey SILTSTONE.
10		44					
15		71					Gray with reddish to yellowish brown mottling.
20							Total Depth = 16.5 feet. Groundwater not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION

DATE DRILLED 6/4/25 BORING NO. B-7

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

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not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.

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DATE DRILLED 6/3/25 BORING NO. B-8

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GW	ASPHALT CONCRETE: Approximately 4 inches thick.
						SC	AGGREGATE BASE: Approximately 6 inches thick.
							FILL: Light brown, moist, medium dense, clayey SAND.
							SCRIPPS FORMATION: Gray to yellowish brown, moist, weakly indurated, fine sandy CLAYSTONE.
							Reddish brown, moist, weakly cemented, silty fine- to medium-grained SANDSTONE.
5							Continuous core sample 5-15'; poor recovery.
							Gray to yellowish brown, moist, weakly indurated, clayey SILTSTONE.
10							Yellowish brown, moist, weakly to moderately cemented, silty fine- to medium-grained SANDSTONE. Gray.
15							Total Depth = 15 feet. Groundwater not encountered. Backfilled and patched with aquaphalt. shortly after drilling on 6/3/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-9

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Light brown to yellowish brown, moist, medium dense, silty fine to medium SAND.
5		98/11"					SCRIPPS FORMATION: Gray, reddish brown mottled, moist, moderately cemented, clayey SILTSTONE.
10		50/3"					Light brown to yellowish brown, reddish brown mottled, moist, moderately cemented, silty fine- to medium-grained SANDSTONE.
15		50/5"					Decrease in mottling.
20							Total Depth = 15.9 feet. Groundwater not encountered. Backfilled shortly after drilling on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.

DATE DRILLED 6/4/25 BORING NO. B-9

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20								Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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FIGURE A- 12

DATE DRILLED 6/4/25 BORING NO. B-10

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Yellowish to light brown, moist, medium dense, silty fine to medium SAND; trace subangular gravel.
5		50/6"	7.2	105.8			SCRIPPS FORMATION: Light brown, moist, moderately cemented, silty fine-grained SANDSTONE.
10		64					Gray to light brown.
15		85/11"					Gray.
20							Total Depth = 16.4 feet. Groundwater not encountered. Backfilled shortly after drilling on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION

DATE DRILLED 6/4/25 BORING NO. B-10

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

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not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.

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DATE DRILLED 6/3/25 BORING NO. B-11

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GW	ASPHALT CONCRETE: Approximately 3 inches thick.
						SM	AGGREGATE BASE: Approximately 7 inches thick.
							FILL: Brown to light brown, moist, medium dense, silty fine to coarse SAND; trace gravel.
5		39					SCRIPPS FORMATION: Gray to yellowish brown, moist, moderately indurated, clayey SILTSTONE.
		79					
		50					
10		54					Light gray, reddish brown lenses.
		48					Yellowish brown.
		81					Reddish to yellowish brown. Light gray reddish brown mottled.
		31					
15							Total Depth = 15 feet. Groundwater was not encountered. Backfilled and patched with aquaphalt shortly after drilling on 6/3/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-12

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SC	FILL: Brown to light brown, moist, medium dense, clayey fine to medium SAND.
5		50/5"					SCRIPPS FORMATION: Gray, reddish brown mottled, moist, moderately indurated, clayey SILTSTONE.
							Reddish brown to yellowish brown, moist, moderately cemented, silty fine-grained SANDSTONE.
10		90/11"					Light to yellowish brown, fine- to medium-grained.
15		96/11"					Light brown to gray.
		50/3"					
20							Total Depth = 19.3 feet. Groundwater not encountered.

DATE DRILLED 6/4/25 BORING NO. B-12

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20								Backfilled shortly after drilling on 6/4/25.
								Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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35								
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DATE DRILLED 6/2/25 BORING NO. B-13

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Yellowish brown, moist, medium dense, silty fine to medium SAND; scattered gravel.
							SCRIPPS FORMATION: Yellowish brown to gray, moist, moderately cemented, sandy SILTSTONE; trace gravel.
5							Continuous core sample 5-15'; poor recovery.
							Olive gray, yellowish brown streaks.
							Light gray, moist, weakly to moderately cemented, fine- to medium-grained SANDSTONE.
10							Yellowish brown lens.
15							Total Depth = 15 feet. Groundwater not encountered. Backfilled shortly after drilling on 6/2/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-14

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Light brown to brown, moist, medium dense, silty fine to medium SAND; scattered subangular gravel.
5		94/9"	8.3	110.8			SCRIPPS FORMATION: Yellowish brown, moist, moderately cemented, silty fine- to medium-grained SANDSTONE; scattered micaceous material.
10		87					Light brown to gray.
		50/5"					Hard drilling at 13 feet. Sample on cobble; refusal. Total Depth = 13.4 feet. Groundwater not encountered. Backfilled shortly after drilling on 6/4/25.
15							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-15

GROUND ELEVATION 350'±(MSL) SHEET 1 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Brown to light brown, moist, medium dense, silty fine to medium SAND.
5		50/6"					SCRIPPS FORMATION: Light to yellowish brown, moist, moderately cemented, silty fine- to medium-grained SANDSTONE.
10		86/11"					
15		90/11"					Light brown to gray.
		50/5"					
20							Total Depth = 19.4 feet.

FIGURE A- 20

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5671 MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION
UC SAN DIEGO, LA JOLLA, CALIFORNIA

110064001 | 8/25

DATE DRILLED 6/4/25 BORING NO. B-15

GROUND ELEVATION 350'±(MSL) SHEET 2 OF 2

METHOD OF DRILLING 8-inch Hollow-Stem Auger (Pacific Drilling - Sabercat MTXD)

DRIVE WEIGHT 140 lbs. (Auto Trip Hammer) DROP 30"

SAMPLED BY CMH LOGGED BY CMH REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20								Groundwater not encountered. Backfilled shortly after drilling on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
25								
30								
35								
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DATE DRILLED 6/4/25 BORING NO. B-16

GROUND ELEVATION 357'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING Manual - 3.5-inch hand auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY KWK LOGGED BY KWK REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Light brown, moist, medium dense, silty fine to medium SAND with rounded gravel.
							Refusal.
							Total Depth = 2 feet. Groundwater not encountered. Backfilled shortly after excavation on 6/4/25.
							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
10							
15							
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DATE DRILLED 6/4/25 BORING NO. B-17

GROUND ELEVATION 356'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING Manual - 3.5-inch hand auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY KWK LOGGED BY KWK REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SC	FILL: Brown, moist, loose to medium dense, clayey SAND. VERY OLD PARALIC DEPOSITS: Yellowish brown, moist, moderately cemented, clayey fine- to medium-grained SANDSTONE; scattered rounded gravel. Refusal. Total Depth = 2 feet. Groundwater not encountered. Backfilled shortly after excavation on 6/4/25. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-18

GROUND ELEVATION 360'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING Manual - 3.5-inch hand auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY KWK LOGGED BY KWK REVIEWED BY NMM

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SC	FILL: Light yellowish brown, moist, medium dense, clayey fine to medium SAND; scattered angular gravel; scattered roots and rootlets.
						CL	Dark gray, moist, firm, fine to medium sandy lean CLAY; organic odor; approximately 2 inches thick.
						SW	Light brown, moist, dense, well-graded fine to coarse SAND; few silt.
							VERY OLD PARALIC DEPOSITS: Yellowish brown, moist, moderately cemented, clayey fine- to medium-grained SANDSTONE with rounded gravel. Refusal.
							Total Depth = 2.5 feet. Groundwater not encountered. Backfilled shortly after excavation on 6/4/25.
5							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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DATE DRILLED 6/4/25 BORING NO. B-19

GROUND ELEVATION 358'±(MSL) SHEET 1 OF 1

METHOD OF DRILLING Manual - 3.5-inch hand auger

DRIVE WEIGHT N/A DROP N/A

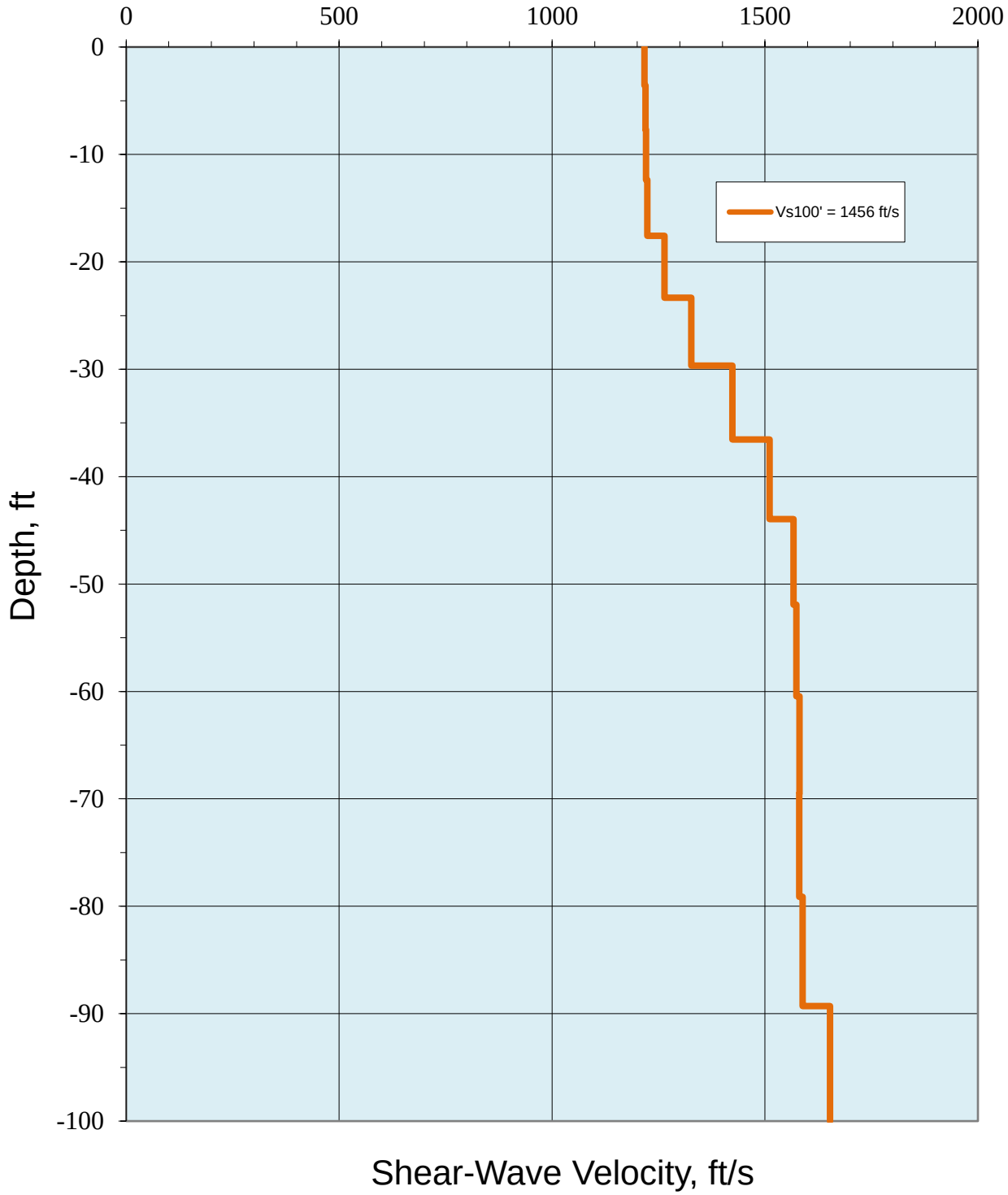
SAMPLED BY KWK LOGGED BY KWK REVIEWED BY NMM

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SC	FILL: Light yellowish brown, moist, medium dense, clayey fine to medium SAND; scattered rounded gravel; scattered construction debris (concrete up to 3 inches); coarse sand and angular gravel.
								Refusal on cobble/concrete.
								Total Depth = 2.5 feet. Groundwater not encountered. Backfilled shortly after excavation on 6/4/25.
								Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents. Additionally, ongoing construction activities at the site may alter ground elevations from those reported at the time of our evaluation.
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APPENDIX B

Refraction Microtremor (ReMi) Survey

110064001 - 5671 MCLJ Outpatient Pavilion
Vs Model, Line 1



Ninyo & Moore
A SOCOTEC COMPANY

REMI SHEAR WAVE CALCULATIONS

Project # 110064001

5671 MCLJ Outpatient Pavilion
UC San Diego, La Jolla, California

Line #

d_i	v_{si}	d_i/v_{si}
3.6	1216.9	0.00293
4.1	1219.4	0.00338
4.7	1220.4	0.00383
5.2	1223.9	0.00426
5.8	1264.3	0.00456
6.3	1326.7	0.00476
6.9	1423.4	0.00483
7.4	1510.6	0.00491
8.0	1566.7	0.00509
8.5	1573.5	0.00541
9.1	1581.1	0.00573
9.6	1580.5	0.00608
10.2	1588.6	0.00640
10.7	1652.7	0.00648
	Average v_s	1456

$$\overline{v_s} = \frac{\sum d_i}{\sum \frac{d_i}{v_{si}}}$$

Per ASCE 7-22: Equation 20.4-1

d_i = thickness of any layer between 0 and 100 feet

v_{si} = shear wave velocity in feet per second

APPENDIX C

Geotechnical Laboratory Testing

APPENDIX C

GEOTECHNICAL LABORATORY TESTING

Classification
Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory excavations in Appendix A.

In-Place Moisture and Density Tests
The moisture content and dry density of relatively undisturbed samples obtained from the exploratory excavations were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory excavations in Appendix A.

Gradation Analysis
Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures C-1 through C-5. These test results were utilized in evaluating the soil classifications in accordance with the USCS.

Atterberg Limits
Tests were performed on a selected representative fine-grained soil sample to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. The test results were utilized to evaluate the soil classification in accordance with the USCS. The test results and classification is shown on Figure C-6.

Direct Shear Tests
Direct shear tests were performed on relatively undisturbed and remolded samples in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of selected materials. The samples were inundated during shearing to represent adverse field conditions. The results are shown on Figures C-7 through C-10.

Expansion Index Tests
The expansion index of selected materials was evaluated in general accordance with ASTM D 4829. Specimens were molded under a specified compactive energy at approximately 50 percent saturation. The prepared 1-inch thick by 4-inch diameter specimens were loaded with a surcharge of 144 pounds per square foot and were inundated with tap water. Readings of volumetric swell were made for a period of 24 hours. The results of these tests are presented on Figure C-11.

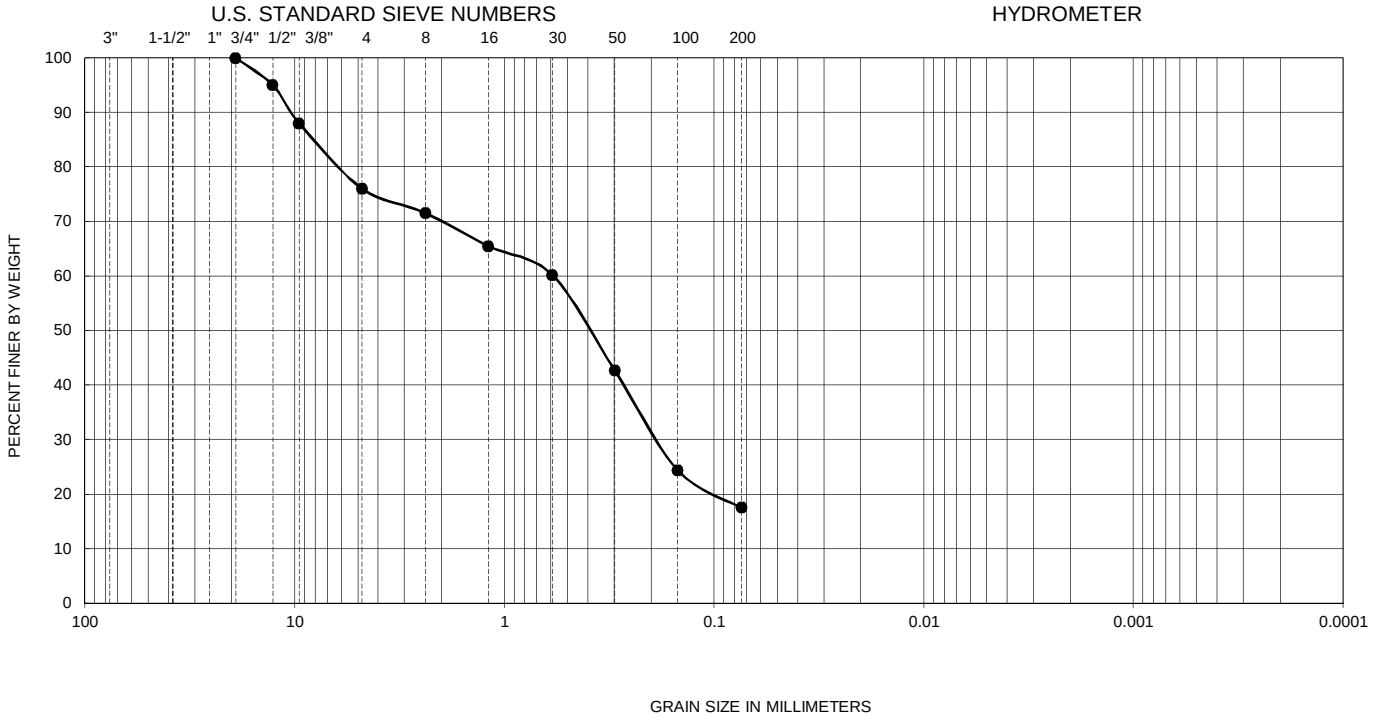
Proctor Density Tests
The maximum dry density and optimum moisture content of selected representative soil samples were evaluated using the Modified Proctor method in general accordance with ASTM D 1557. The results of these tests are summarized on Figures C-12 and C-13.

Soil Corrosivity Tests
Soil pH and resistivity tests were performed on a representative sample in general accordance with California Test (CT) 643. The soluble sulfate and chloride contents of the selected sample were evaluated in general accordance with CT 417 and CT 422, respectively. The test results are presented on Figure C-14.

R-Value

The resistance value, or R-value, for site soils was evaluated in general accordance with California Test (CT) 301. Samples were prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results. The test results are shown on Figure C-14.

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-5	1.0-3.0	--	--	--	--	--	--	--	--	18	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

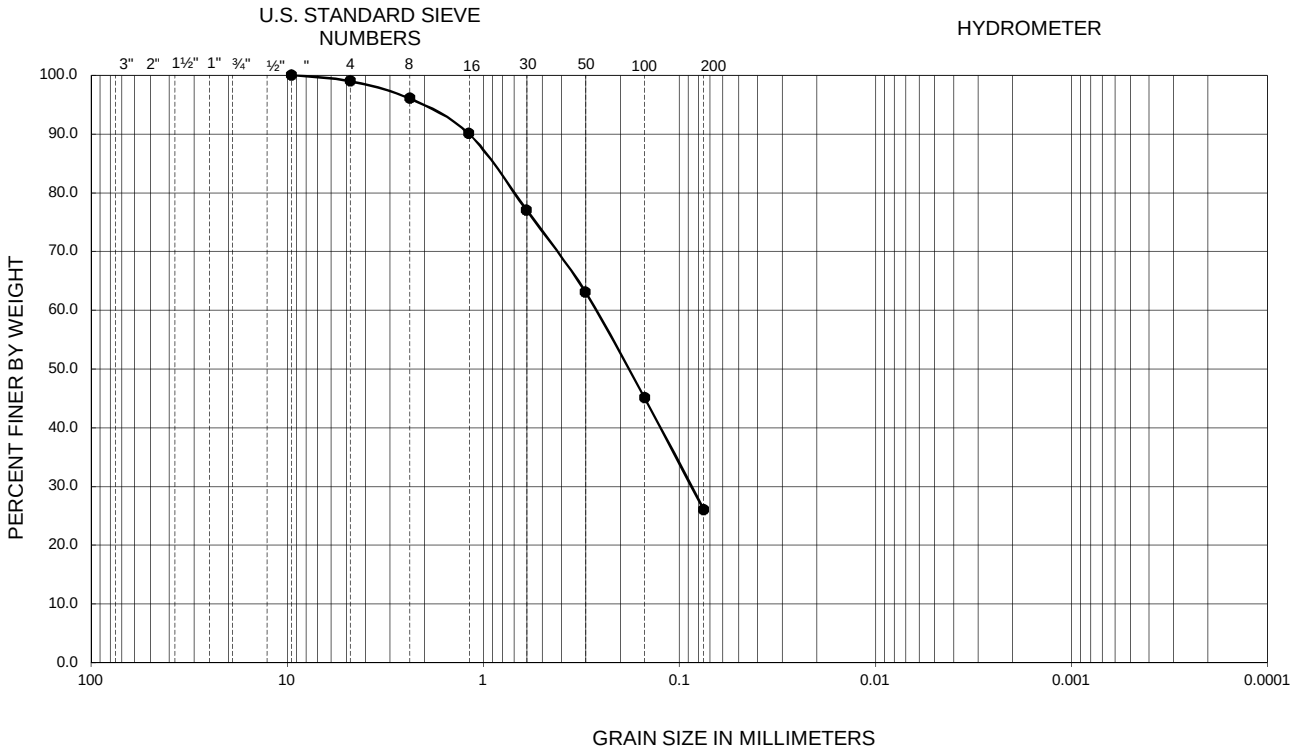
FIGURE C-1

GRADATION TEST RESULTS

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UC SAN DIEGO, LA JOLLA, CALIFORNIA

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A SOCOTEC COMPANY

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-10	0.0-4.0	--	--	--	--	--	--	--	--	26	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

FIGURE C-2

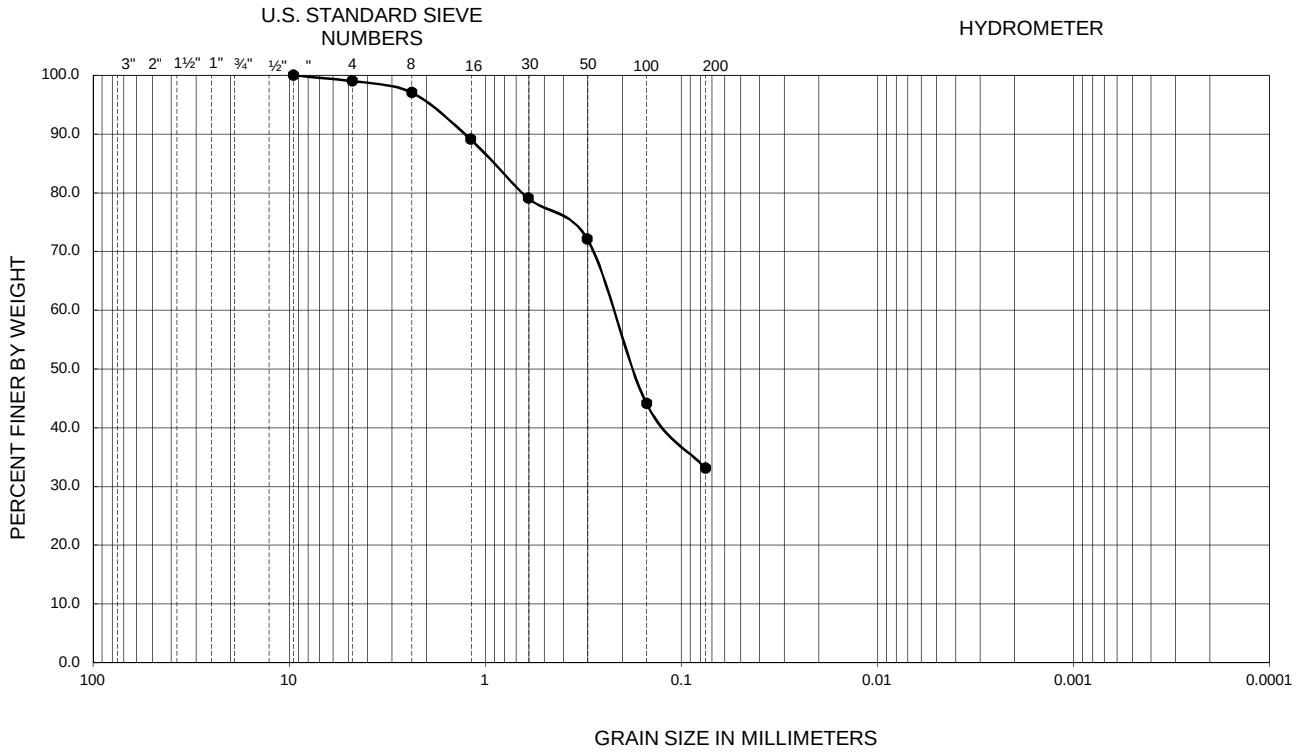
GRADATION TEST RESULTS

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GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-11	1.0-5.0	--	--	--	--	--	--	--	--	33	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

FIGURE C-3

GRADATION TEST RESULTS

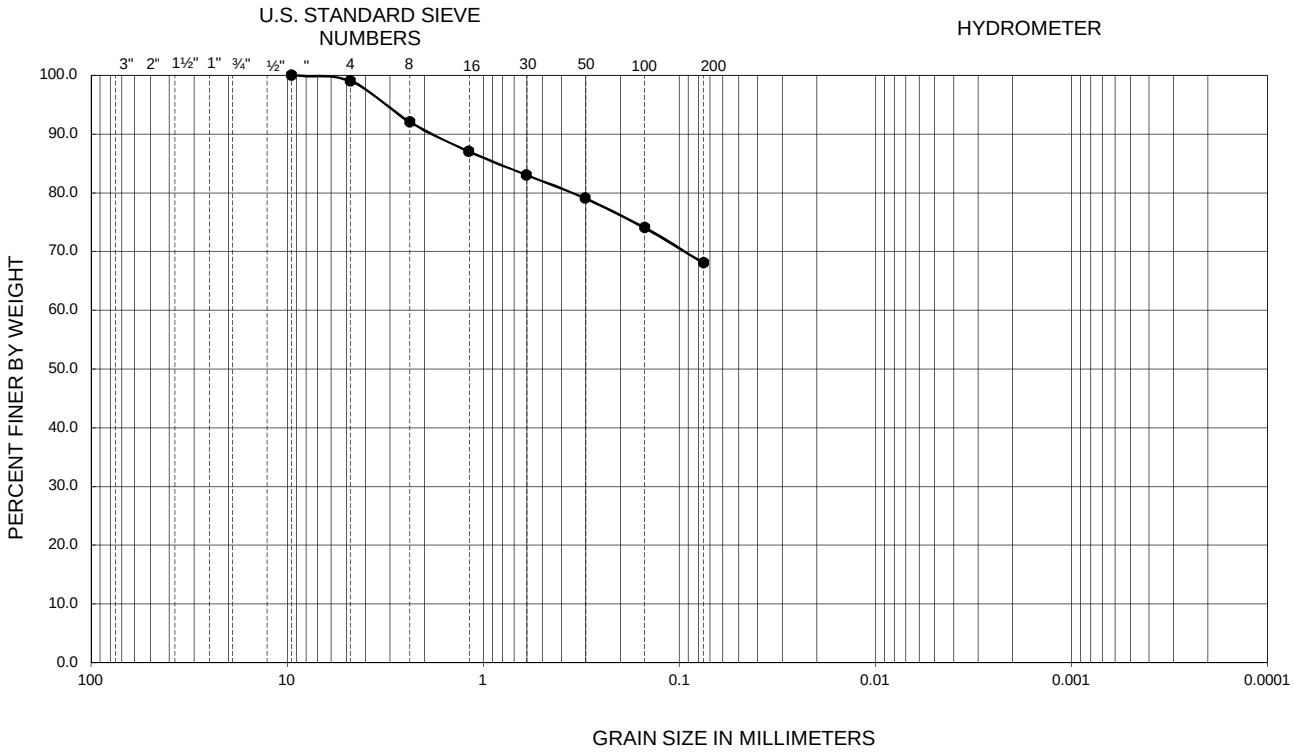
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GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	Equivalent USCS
●	B-13	3.0-5.0	NP	NP	NP	--	--	--	--	--	68	ML

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

NP - INDICATES NON-PLASTIC

FIGURE C-4

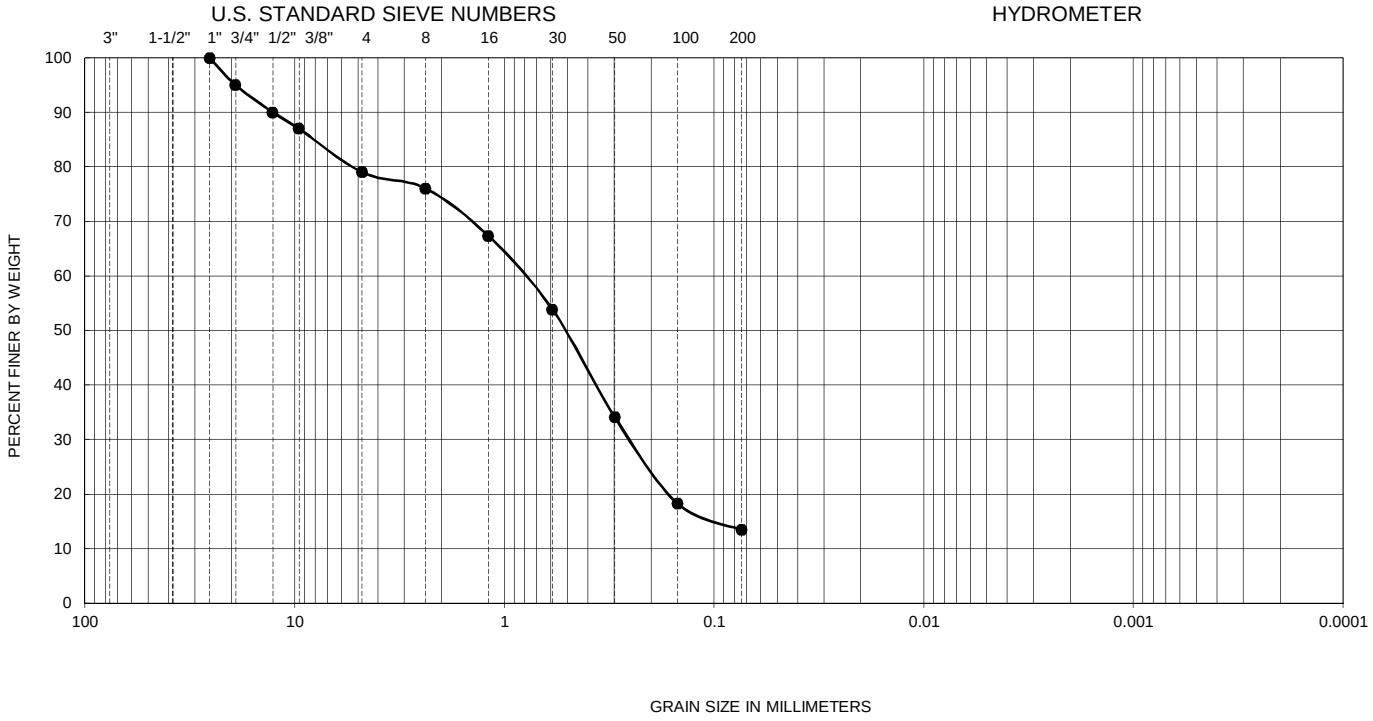
GRADATION TEST RESULTS

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GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-16	0.0-2.0	--	--	--	--	--	--	--	--	13	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

FIGURE C-5

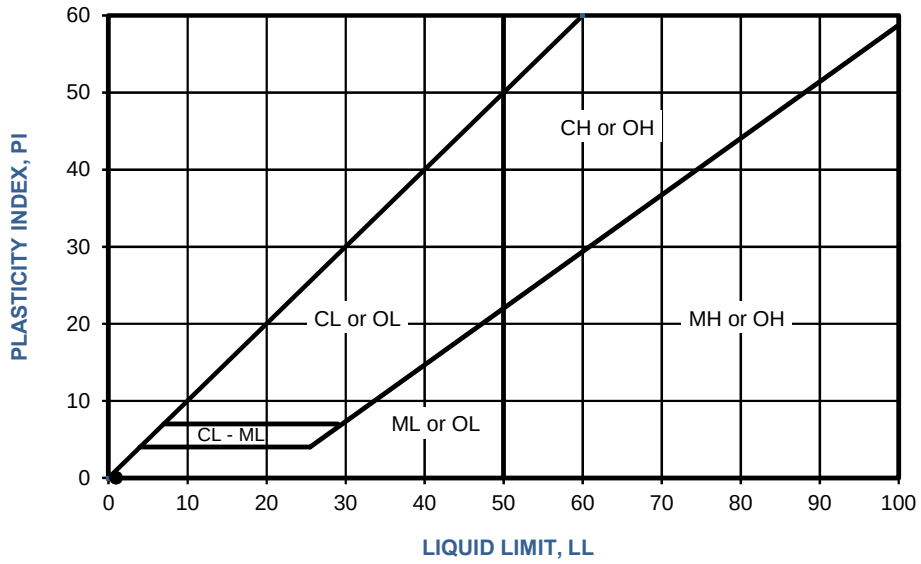
GRADATION TEST RESULTS

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SYMBOL	LOCATION	DEPTH (ft)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	EQUIVALENT USCS
●	B-13	3.0-5.0	NP	NP	NP	ML	ML

NP - INDICATES NON-PLASTIC



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 4318

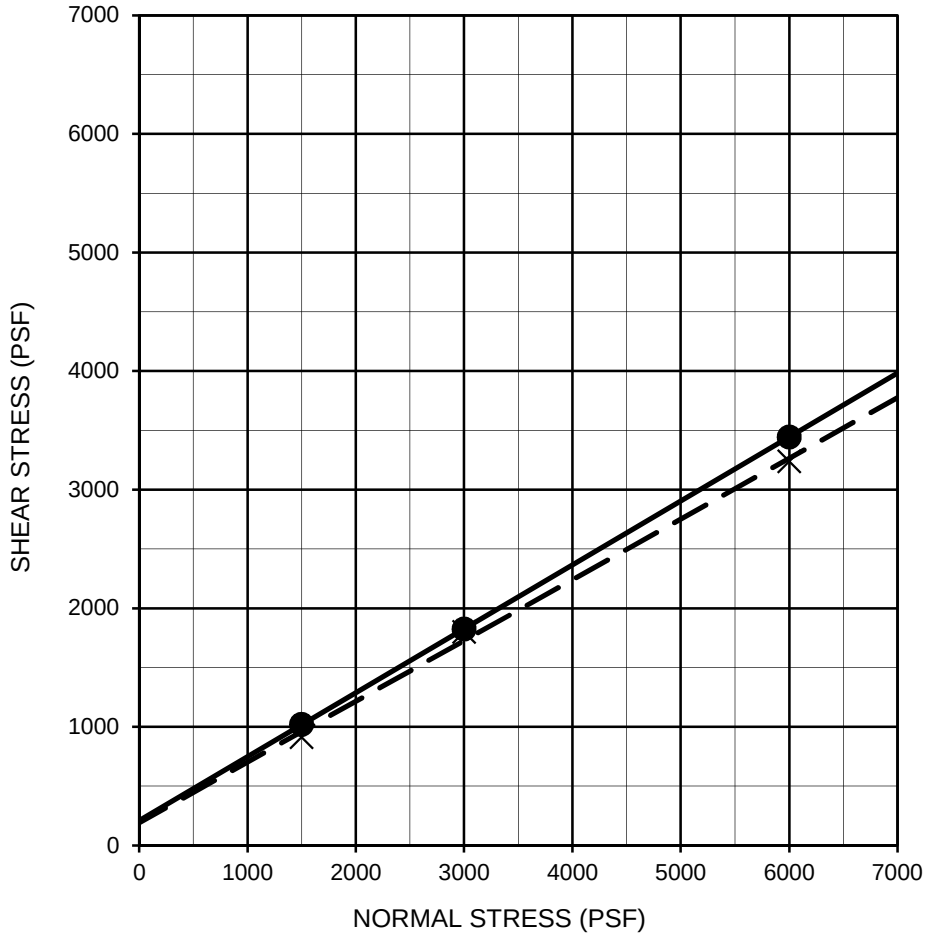
FIGURE C-6

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ATTERBERG LIMITS TEST RESULTS

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Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
Remolded @ 90% Relative Compaction	—●—	B-6	1.0-5.0	Peak	210	28	SC
	– – X – –	B-6	1.0-5.0	Ultimate	190	27	SC

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

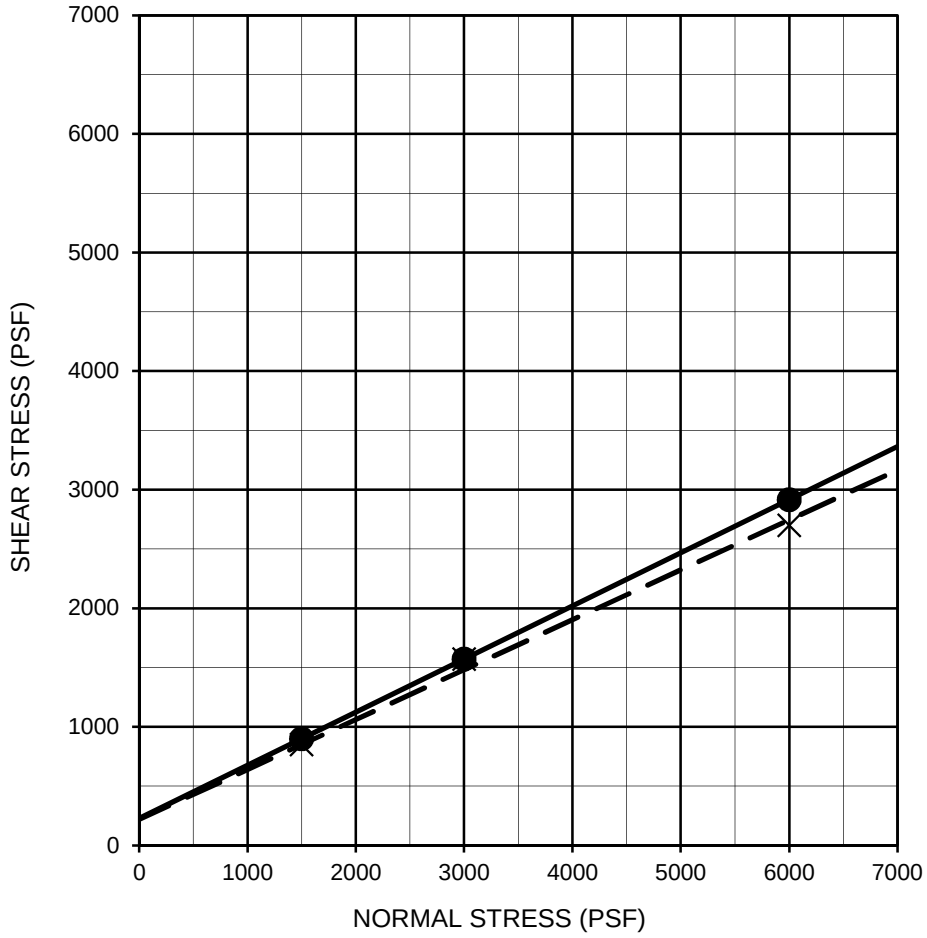
FIGURE C-7

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DIRECT SHEAR TEST RESULTS

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Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
Remolded @ 90% Relative Compaction	—●—	B-8	1.0-5.0	Peak	230	24	CL
	– – X – –	B-8	1.0-5.0	Ultimate	220	23	CL

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

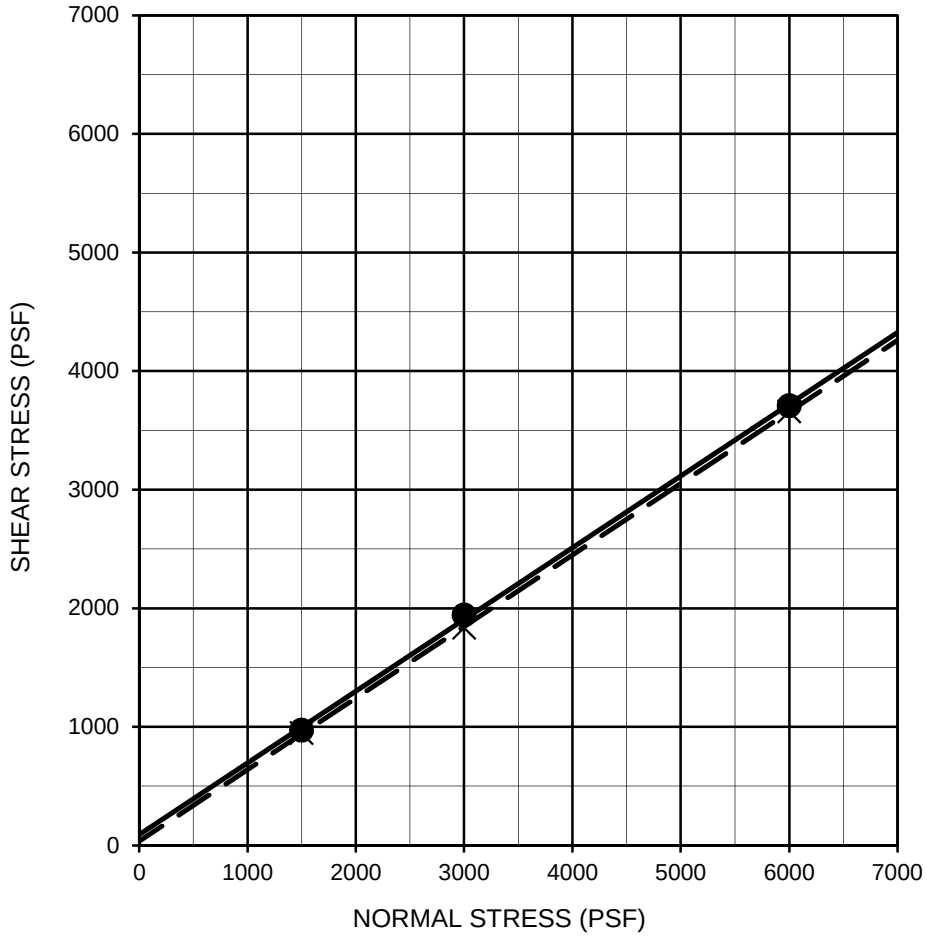
FIGURE C-8

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DIRECT SHEAR TEST RESULTS

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Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
Silty SANDSTONE	—●—	B-10	5.0-6.0	Peak	90	31	Formation
Silty SANDSTONE	– – X – –	B-10	5.0-6.0	Ultimate	40	31	Formation

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

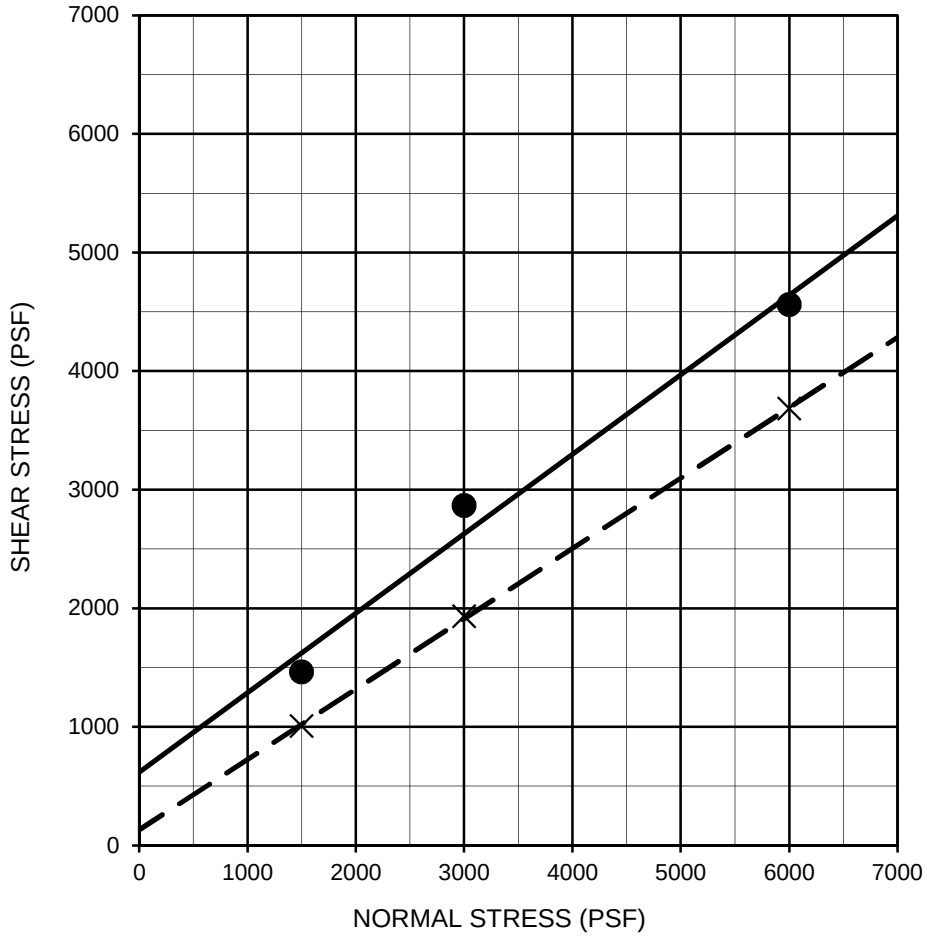
FIGURE C-9

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DIRECT SHEAR TEST RESULTS

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Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
Silty SANDSTONE	—●—	B-14	5.0-6.3	Peak	620	34	Formation
Silty SANDSTONE	– – X – –	B-14	5.0-6.3	Ultimate	130	31	Formation

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

FIGURE C-10

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DIRECT SHEAR TEST RESULTS

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SAMPLE LOCATION	SAMPLE DEPTH (ft)	INITIAL MOISTURE (percent)	COMPACTED DRY DENSITY (pcf)	FINAL MOISTURE (percent)	VOLUMETRIC SWELL (in)	EXPANSION INDEX	POTENTIAL EXPANSION
B-12	0.0-4.0	11.0	104.2	23.6	0.070	70	Medium
B-16	0.0-2.0	9.5	112.6	22.7	0.004	4	Very Low
B-18	0.0-0.8	9.0	111.8	18.6	0.008	8	Very Low
B-19	0.0-2.5	9.0	111.9	19.6	0.007	7	Very Low

PERFORMED IN GENERAL ACCORDANCE WITH ☐ UBC STANDARD 18-2 ☑ ASTM D 4829

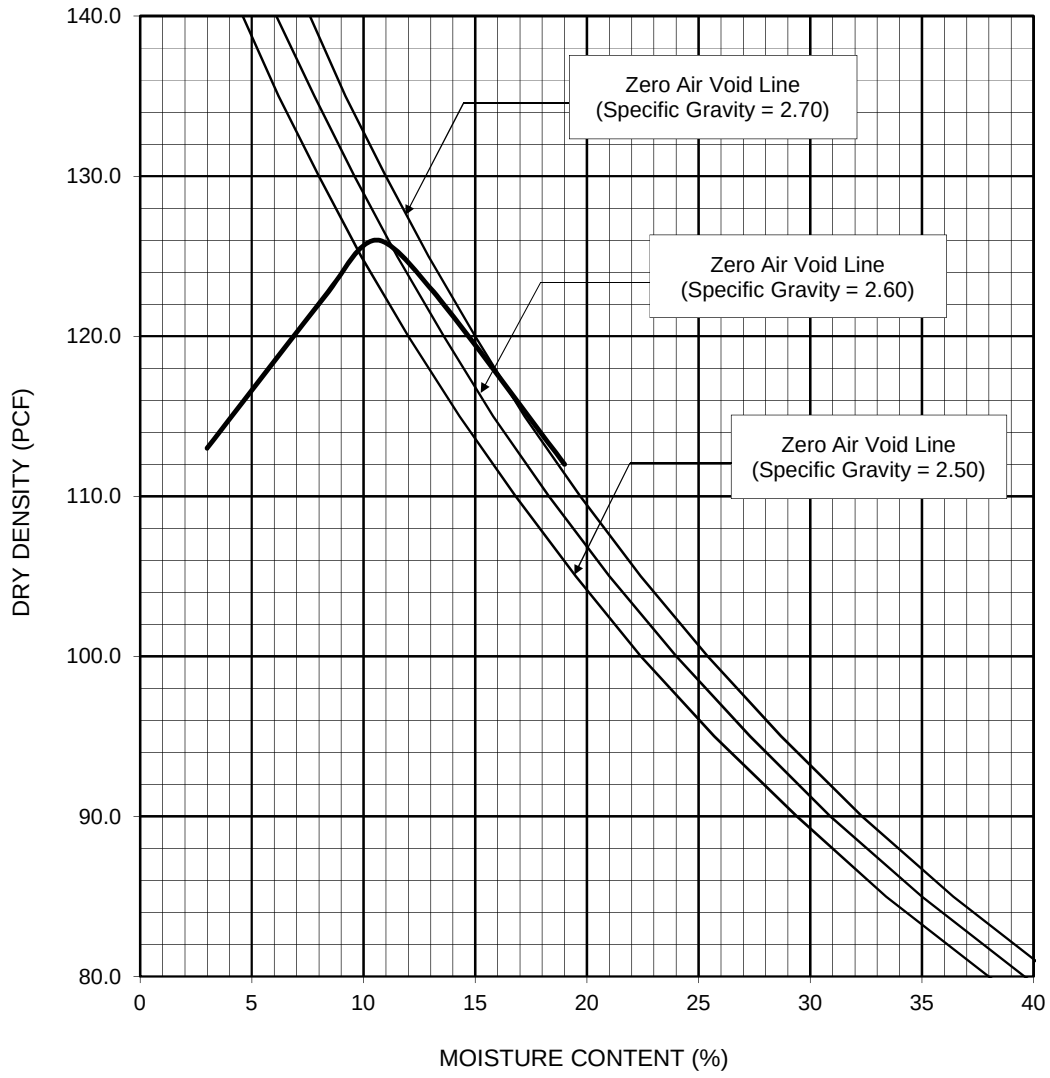
FIGURE C-11

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EXPANSION INDEX TEST RESULTS

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Sample Location	Depth (ft)	Soil Description	Maximum Dry Density (pcf)	Optimum Moisture Content (percent)
B-6	1.0-5.0	Clayey SAND (SC)	126.0	10.5

PERFORMED IN GENERAL ACCORDANCE WITH ☑ ASTM D 1557 ☐ ASTM D 698 METHOD ☑ A ☐ B ☐ C

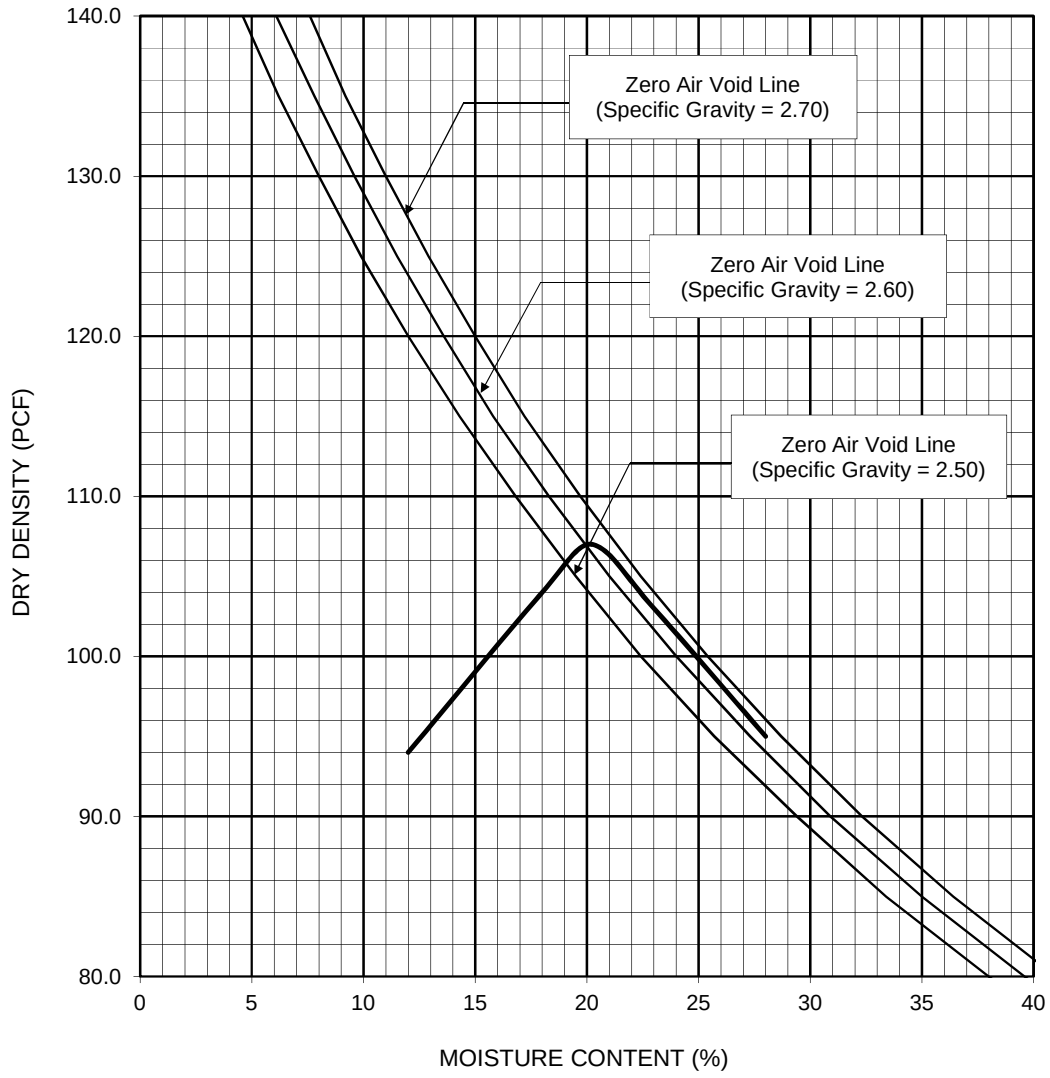
FIGURE C-12

PROCTOR DENSITY TEST RESULTS

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Sample Location	Depth (ft)	Soil Description	Maximum Dry Density (pcf)	Optimum Moisture Content (percent)
B-8	1.0-5.0	Sandy Lean CLAY (CL)	107.0	20.2

PERFORMED IN GENERAL ACCORDANCE WITH ☑ ASTM D 1557 ☐ ASTM D 698 METHOD ☑ A ☐ B ☐ C

FIGURE C-13

PROCTOR DENSITY TEST RESULTS

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SAMPLE LOCATION	SAMPLE DEPTH (ft)	pH [1]	RESISTIVITY [1] (ohm-cm)	SULFATE CONTENT [2]		CHLORIDE CONTENT [3] (ppm)
				(ppm)	(%)	
B-6	1.0-5.0	7.5	1,500	60	0.006	110

[1] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643
[2] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417
[3] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

FIGURE C-14

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A SOCOTEC COMPANY

CORROSIVITY TEST RESULTS

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SAMPLE LOCATION	SAMPLE DEPTH (ft)	SOIL TYPE	R-VALUE
B-3	1.0-4.5	Silty SAND (SM)	36
B-12	0.0-4.0	Clayey SAND (SC)	14
B-17	0.0-2.0	Clayey SAND (SC)	21

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2844/CT 301

FIGURE C-15

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R-VALUE TEST RESULTS

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UC SAN DIEGO, LA JOLLA, CALIFORNIA

110064001 8/25

APPENDIX D

Environmental Analytical Laboratory Reports and Tables

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

Generated 6/13/2025 1:08:58 PM

JOB DESCRIPTION

UCSD - Medical Center / 110064001

JOB NUMBER

570-232956-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

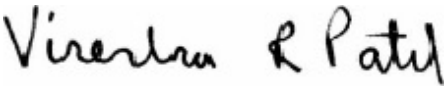
See page two for job notes and contact information.

Job Notes

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Authorization



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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 10
Surrogate Summary 23
QC Sample Results 24
QC Association Summary 30
Lab Chronicle 33
Certification Summary 37
Method Summary 38
Sample Summary 39
Chain of Custody 40
Receipt Checklists 42

Definitions/Glossary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-232956-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/3/2025 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-579416 and analytical batch 570-580496 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6010B: The method blank for preparation batch 570-579416 and analytical batch 570-580496 contained < Barium and Lead> above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: UCSD - Medical Center / 110064001

Job ID: 570-232956-1

Client Sample ID: B-3 2'

Lab Sample ID: 570-232956-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C25-C28	8.1		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	13		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	12		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	9.9		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	7.1		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	64		5.0	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	18		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	3.18		2.96	1.37	mg/Kg	5		6010B	Total/NA
Barium	21.3	B	2.96	0.140	mg/Kg	5		6010B	Total/NA
Beryllium	0.148	J	0.493	0.0680	mg/Kg	5		6010B	Total/NA
Cobalt	1.55		0.985	0.203	mg/Kg	5		6010B	Total/NA
Chromium	7.78		0.985	0.183	mg/Kg	5		6010B	Total/NA
Copper	3.81		1.97	0.944	mg/Kg	5		6010B	Total/NA
Nickel	2.77		1.97	0.357	mg/Kg	5		6010B	Total/NA
Vanadium	17.8		0.985	0.166	mg/Kg	5		6010B	Total/NA
Zinc	10.8		4.93	1.14	mg/Kg	5		6010B	Total/NA
Lead	2.61	B	1.97	0.403	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-3 5'

Lab Sample ID: 570-232956-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	30		4.9	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	11		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	18.6		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	29.8	B	3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.575		0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	3.44		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	12.2		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	11.8		2.00	0.958	mg/Kg	5		6010B	Total/NA
Nickel	4.64		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	34.9		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	32.1		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	6.34	B	2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-3 10'

Lab Sample ID: 570-232956-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	8.8		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	16.6		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	30.9	B	3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.955		0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	3.66		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	11.1		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	11.7		2.01	0.963	mg/Kg	5		6010B	Total/NA
Molybdenum	0.641	J	2.01	0.518	mg/Kg	5		6010B	Total/NA
Nickel	5.88		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	23.3		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	43.4		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	5.44	B	2.01	0.411	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-1 2'
Lab Sample ID: 570-232956-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C21-C22	5.1		5.0	4.6	mg/Kg	1		8015B	Total/NA
C23-C24	9.3		5.0	4.6	mg/Kg	1		8015B	Total/NA
C25-C28	32		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	51		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	49		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	35		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	19		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	220		5.0	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	57		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	18.6		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	37.2	B	3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.190	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	3.11		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	11.0		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	9.58		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	4.91		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	33.0		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	32.1		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	5.72	B	2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-1 5'
Lab Sample ID: 570-232956-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	13		5.0	4.5	mg/Kg	1		8015B	Total/NA
C21-C22	8.9		5.0	4.5	mg/Kg	1		8015B	Total/NA
C23-C24	4.6	J	5.0	4.5	mg/Kg	1		8015B	Total/NA
C25-C28	23		5.0	4.5	mg/Kg	1		8015B	Total/NA
C29-C32	14		5.0	4.5	mg/Kg	1		8015B	Total/NA
C33-C36	11		5.0	4.5	mg/Kg	1		8015B	Total/NA
C37-C40	7.3		5.0	4.5	mg/Kg	1		8015B	Total/NA
C41-C44	5.6		5.0	4.5	mg/Kg	1		8015B	Total/NA
C6-C44	100		5.0	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	57		5.0	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	9.25		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	33.3	B	3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.178	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	2.18		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	9.51		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	7.44		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	2.46		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	21.2		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	21.8		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	2.79	B	2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-1 10'
Lab Sample ID: 570-232956-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C17-C18	4.8	J	5.0	4.6	mg/Kg	1		8015B	Total/NA
C19-C20	16		5.0	4.6	mg/Kg	1		8015B	Total/NA
C21-C22	11		5.0	4.6	mg/Kg	1		8015B	Total/NA
C23-C24	4.6	J	5.0	4.6	mg/Kg	1		8015B	Total/NA
C25-C28	25		5.0	4.6	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-1 10' (Continued)

Lab Sample ID: 570-232956-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C29-C32	11		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	7.0		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	90		5.0	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	64		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	28.0		2.97	1.38	mg/Kg	5		6010B	Total/NA
Barium	113	B	2.97	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.248	J	0.495	0.0683	mg/Kg	5		6010B	Total/NA
Cobalt	2.86		0.990	0.204	mg/Kg	5		6010B	Total/NA
Chromium	11.8		0.990	0.184	mg/Kg	5		6010B	Total/NA
Copper	10.3		1.98	0.949	mg/Kg	5		6010B	Total/NA
Molybdenum	0.817	J	1.98	0.510	mg/Kg	5		6010B	Total/NA
Nickel	3.32		1.98	0.358	mg/Kg	5		6010B	Total/NA
Vanadium	26.2		0.990	0.166	mg/Kg	5		6010B	Total/NA
Zinc	31.3		4.95	1.14	mg/Kg	5		6010B	Total/NA
Lead	15.7	B	1.98	0.405	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-5 2'

Lab Sample ID: 570-232956-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	5.6		4.9	4.5	mg/Kg	1		8015B	Total/NA
C21-C22	7.3		4.9	4.5	mg/Kg	1		8015B	Total/NA
C23-C24	7.0		4.9	4.5	mg/Kg	1		8015B	Total/NA
C25-C28	19		4.9	4.5	mg/Kg	1		8015B	Total/NA
C29-C32	28		4.9	4.5	mg/Kg	1		8015B	Total/NA
C33-C36	27		4.9	4.5	mg/Kg	1		8015B	Total/NA
C37-C40	21		4.9	4.5	mg/Kg	1		8015B	Total/NA
C41-C44	13		4.9	4.5	mg/Kg	1		8015B	Total/NA
C6-C44	140		4.9	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	45		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	9.60		3.06	1.42	mg/Kg	5		6010B	Total/NA
Barium	84.5	B	3.06	0.145	mg/Kg	5		6010B	Total/NA
Beryllium	0.306	J	0.510	0.0704	mg/Kg	5		6010B	Total/NA
Cobalt	3.30		1.02	0.210	mg/Kg	5		6010B	Total/NA
Chromium	9.27		1.02	0.190	mg/Kg	5		6010B	Total/NA
Copper	8.01		2.04	0.978	mg/Kg	5		6010B	Total/NA
Nickel	4.29		2.04	0.369	mg/Kg	5		6010B	Total/NA
Vanadium	21.9		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	28.2		5.10	1.18	mg/Kg	5		6010B	Total/NA
Lead	6.59	B	2.04	0.417	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-5 5'

Lab Sample ID: 570-232956-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	35		4.9	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	15		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	3.01	J	3.03	1.41	mg/Kg	5		6010B	Total/NA
Barium	62.2	B	3.03	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.240	J	0.505	0.0697	mg/Kg	5		6010B	Total/NA
Cobalt	2.97		1.01	0.208	mg/Kg	5		6010B	Total/NA
Chromium	11.0		1.01	0.188	mg/Kg	5		6010B	Total/NA
Copper	6.12		2.02	0.968	mg/Kg	5		6010B	Total/NA
Nickel	4.17		2.02	0.366	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-5 5' (Continued)
Lab Sample ID: 570-232956-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	23.4		1.01	0.170	mg/Kg	5		6010B	Total/NA
Zinc	32.0		5.05	1.17	mg/Kg	5		6010B	Total/NA
Lead	8.36	B	2.02	0.413	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-5 8'
Lab Sample ID: 570-232956-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	17		5.0	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	11		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	21.7		3.06	1.42	mg/Kg	5		6010B	Total/NA
Barium	37.6	B	3.06	0.145	mg/Kg	5		6010B	Total/NA
Beryllium	0.230	J	0.510	0.0704	mg/Kg	5		6010B	Total/NA
Cobalt	2.56		1.02	0.210	mg/Kg	5		6010B	Total/NA
Chromium	13.6		1.02	0.190	mg/Kg	5		6010B	Total/NA
Copper	12.1		2.04	0.978	mg/Kg	5		6010B	Total/NA
Molybdenum	0.740	J	2.04	0.526	mg/Kg	5		6010B	Total/NA
Nickel	4.58		2.04	0.369	mg/Kg	5		6010B	Total/NA
Vanadium	36.0		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	25.6		5.10	1.18	mg/Kg	5		6010B	Total/NA
Lead	4.60	B	2.04	0.417	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-13 2'
Lab Sample ID: 570-232956-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	14		4.9	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	7.4		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	27.9		3.03	1.41	mg/Kg	5		6010B	Total/NA
Barium	95.5	B	3.03	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.833		0.505	0.0697	mg/Kg	5		6010B	Total/NA
Cobalt	6.12		1.01	0.208	mg/Kg	5		6010B	Total/NA
Chromium	18.0		1.01	0.188	mg/Kg	5		6010B	Total/NA
Copper	26.8		2.02	0.968	mg/Kg	5		6010B	Total/NA
Nickel	9.22		2.02	0.366	mg/Kg	5		6010B	Total/NA
Vanadium	37.1		1.01	0.170	mg/Kg	5		6010B	Total/NA
Zinc	59.6		5.05	1.17	mg/Kg	5		6010B	Total/NA
Lead	11.7	B	2.02	0.413	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-13 5'
Lab Sample ID: 570-232956-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	17		5.0	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	13		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	8.10		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	21.1	B	3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.450	J	0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	3.91		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	7.44		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	5.74		2.00	0.958	mg/Kg	5		6010B	Total/NA
Nickel	3.83		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	21.3		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	28.4		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	4.40	B	2.00	0.409	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-3 2'
Lab Sample ID: 570-232956-1
Date Collected: 06/02/25 08:25
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C21-C22	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C23-C24	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C25-C28	**8.1**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C29-C32	**13**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C33-C36	**12**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C37-C40	**9.9**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C41-C44	**7.1**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
C6-C44	**64**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1
Diesel Range Organics [C10-C28]	**18**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*118*		*29 - 160*	*06/09/25 19:09*	*06/11/25 20:36*	*1*

Client Sample ID: B-3 5'
Lab Sample ID: 570-232956-2
Date Collected: 06/02/25 08:58
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C7	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C8	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C9-C10	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C11-C12	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C13-C14	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C15-C16	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C17-C18	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C19-C20	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C21-C22	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C23-C24	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C25-C28	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C29-C32	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C33-C36	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C37-C40	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C41-C44	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
C6-C44	**30**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1
Diesel Range Organics [C10-C28]	**11**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*29 - 160*	*06/09/25 19:09*	*06/11/25 20:57*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-3 10'
Date Collected: 06/02/25 09:16
Date Received: 06/03/25 16:05

Lab Sample ID: 570-232956-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C7	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C8	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C9-C10	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C11-C12	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C13-C14	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C15-C16	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C17-C18	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C19-C20	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C21-C22	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C23-C24	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C25-C28	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C29-C32	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C33-C36	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C37-C40	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C41-C44	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
C6-C44	**8.8**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*113*		*29 - 160*	*06/09/25 19:09*	*06/11/25 21:19*	*1*

Client Sample ID: B-1 2'
Date Collected: 06/02/25 09:54
Date Received: 06/03/25 16:05

Lab Sample ID: 570-232956-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C21-C22	**5.1**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C23-C24	**9.3**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C25-C28	**32**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C29-C32	**51**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C33-C36	**49**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C37-C40	**35**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C41-C44	**19**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
C6-C44	**220**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1
Diesel Range Organics [C10-C28]	**57**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*111*		*29 - 160*	*06/09/25 19:09*	*06/11/25 21:40*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-1 5'
Lab Sample ID: 570-232956-5
Date Collected: 06/02/25 10:30
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C7	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C8	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C9-C10	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C11-C12	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C13-C14	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C15-C16	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C17-C18	ND		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C19-C20	**13**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C21-C22	**8.9**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C23-C24	**4.6**	**J**	5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C25-C28	**23**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C29-C32	**14**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C33-C36	**11**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C37-C40	**7.3**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C41-C44	**5.6**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
C6-C44	**100**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1
Diesel Range Organics [C10-C28]	**57**		5.0	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*29 - 160*	*06/09/25 19:09*	*06/11/25 22:01*	*1*

Client Sample ID: B-1 10'
Lab Sample ID: 570-232956-6
Date Collected: 06/02/25 10:40
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C17-C18	**4.8**	**J**	5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C19-C20	**16**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C21-C22	**11**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C23-C24	**4.6**	**J**	5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C25-C28	**25**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C29-C32	**11**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C33-C36	**7.0**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C37-C40	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C41-C44	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
C6-C44	**90**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1
Diesel Range Organics [C10-C28]	**64**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*29 - 160*	*06/09/25 19:09*	*06/11/25 22:23*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-5 2'
Date Collected: 06/02/25 11:30
Date Received: 06/03/25 16:05

Lab Sample ID: 570-232956-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C7	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C8	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C9-C10	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C11-C12	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C13-C14	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C15-C16	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C17-C18	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C19-C20	**5.6**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C21-C22	**7.3**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C23-C24	**7.0**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C25-C28	**19**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C29-C32	**28**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C33-C36	**27**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C37-C40	**21**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C41-C44	**13**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
C6-C44	**140**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1
Diesel Range Organics [C10-C28]	**45**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*111*		*29 - 160*	*06/09/25 19:09*	*06/11/25 22:44*	*1*

Client Sample ID: B-5 5'
Date Collected: 06/02/25 11:50
Date Received: 06/03/25 16:05

Lab Sample ID: 570-232956-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C7	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C8	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C9-C10	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C11-C12	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C13-C14	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C15-C16	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C17-C18	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C19-C20	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C21-C22	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C23-C24	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C25-C28	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C29-C32	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C33-C36	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C37-C40	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C41-C44	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
C6-C44	**35**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1
Diesel Range Organics [C10-C28]	**15**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*112*		*29 - 160*	*06/09/25 19:09*	*06/11/25 23:06*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-5 8'
Lab Sample ID: 570-232956-9
Date Collected: 06/02/25 12:30
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C21-C22	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C23-C24	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C25-C28	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C29-C32	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C33-C36	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C37-C40	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C41-C44	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
C6-C44	**17**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1
Diesel Range Organics [C10-C28]	**11**		5.0	4.6	mg/Kg		06/09/25 19:09	06/11/25 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*29 - 160*	*06/09/25 19:09*	*06/11/25 23:27*	*1*

Client Sample ID: B-13 2'
Lab Sample ID: 570-232956-10
Date Collected: 06/02/25 13:58
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C7	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C8	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C9-C10	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C11-C12	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C13-C14	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C15-C16	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C17-C18	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C19-C20	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C21-C22	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C23-C24	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C25-C28	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C29-C32	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C33-C36	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C37-C40	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C41-C44	ND		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
C6-C44	**14**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1
Diesel Range Organics [C10-C28]	**7.4**		4.9	4.5	mg/Kg		06/09/25 19:09	06/11/25 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*111*		*29 - 160*	*06/09/25 19:09*	*06/11/25 23:48*	*1*

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-13 5'
Lab Sample ID: 570-232956-11
Date Collected: 06/02/25 14:32
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C21-C22	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C23-C24	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C25-C28	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C29-C32	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C33-C36	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C37-C40	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C41-C44	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
C6-C44	**17**		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1
Diesel Range Organics [C10-C28]	**13**		5.0	4.6	mg/Kg		06/09/25 10:29	06/12/25 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*95*		*29 - 160*	*06/09/25 10:29*	*06/12/25 22:34*	*1*

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-3 2'
Date Collected: 06/02/25 08:25
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.48	0.142	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Arsenic	**3.18**		2.96	1.37	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Barium	**21.3**	**B**	2.96	0.140	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Beryllium	**0.148**	**J**	0.493	0.0680	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Cadmium	ND		0.493	0.162	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Cobalt	**1.55**		0.985	0.203	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Chromium	**7.78**		0.985	0.183	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Copper	**3.81**		1.97	0.944	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Molybdenum	ND		1.97	0.507	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Nickel	**2.77**		1.97	0.357	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Antimony	ND		9.85	2.81	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Selenium	ND		2.96	1.20	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Thallium	ND		9.85	2.07	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Vanadium	**17.8**		0.985	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Zinc	**10.8**		4.93	1.14	mg/Kg		06/04/25 10:05	06/05/25 20:26	5
Lead	**2.61**	**B**	1.97	0.403	mg/Kg		06/04/25 10:05	06/05/25 20:26	5

Client Sample ID: B-3 5'
Date Collected: 06/02/25 08:58
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Arsenic	**18.6**		3.00	1.39	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Barium	**29.8**	**B**	3.00	0.142	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Beryllium	**0.575**		0.500	0.0690	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Cadmium	ND		0.500	0.164	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Cobalt	**3.44**		1.00	0.206	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Chromium	**12.2**		1.00	0.186	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Copper	**11.8**		2.00	0.958	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Nickel	**4.64**		2.00	0.362	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Antimony	ND		10.0	2.86	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Selenium	ND		3.00	1.22	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Thallium	ND		10.0	2.11	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Vanadium	**34.9**		1.00	0.168	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Zinc	**32.1**		5.00	1.16	mg/Kg		06/04/25 10:05	06/05/25 20:28	5
Lead	**6.34**	**B**	2.00	0.409	mg/Kg		06/04/25 10:05	06/05/25 20:28	5

Client Sample ID: B-3 10'
Date Collected: 06/02/25 09:16
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Arsenic	**16.6**		3.02	1.40	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Barium	**30.9**	**B**	3.02	0.143	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Beryllium	**0.955**		0.503	0.0693	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Cadmium	ND		0.503	0.165	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Cobalt	**3.66**		1.01	0.207	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Chromium	**11.1**		1.01	0.187	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Copper	**11.7**		2.01	0.963	mg/Kg		06/04/25 10:05	06/05/25 20:31	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-3 10'
Lab Sample ID: 570-232956-3
Date Collected: 06/02/25 09:16
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	**0.641**	**J**	2.01	0.518	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Nickel	**5.88**		2.01	0.364	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Antimony	ND		10.1	2.87	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Selenium	ND		3.02	1.23	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Thallium	ND		10.1	2.12	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Vanadium	**23.3**		1.01	0.169	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Zinc	**43.4**		5.03	1.16	mg/Kg		06/04/25 10:05	06/05/25 20:31	5
Lead	**5.44**	**B**	2.01	0.411	mg/Kg		06/04/25 10:05	06/05/25 20:31	5

Client Sample ID: B-1 2'
Lab Sample ID: 570-232956-4
Date Collected: 06/02/25 09:54
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Arsenic	**18.6**		3.05	1.41	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Barium	**37.2**	**B**	3.05	0.144	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Beryllium	**0.190**	**J**	0.508	0.0701	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Cadmium	ND		0.508	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Cobalt	**3.11**		1.02	0.209	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Chromium	**11.0**		1.02	0.189	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Copper	**9.58**		2.03	0.973	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Nickel	**4.91**		2.03	0.368	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Antimony	ND		10.2	2.90	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Selenium	ND		3.05	1.24	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Thallium	ND		10.2	2.14	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Vanadium	**33.0**		1.02	0.171	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Zinc	**32.1**		5.08	1.17	mg/Kg		06/04/25 10:05	06/05/25 20:33	5
Lead	**5.72**	**B**	2.03	0.415	mg/Kg		06/04/25 10:05	06/05/25 20:33	5

Client Sample ID: B-1 5'
Lab Sample ID: 570-232956-5
Date Collected: 06/02/25 10:30
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Arsenic	**9.25**		3.05	1.41	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Barium	**33.3**	**B**	3.05	0.144	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Beryllium	**0.178**	**J**	0.508	0.0701	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Cadmium	ND		0.508	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Cobalt	**2.18**		1.02	0.209	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Chromium	**9.51**		1.02	0.189	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Copper	**7.44**		2.03	0.973	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Nickel	**2.46**		2.03	0.368	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Antimony	ND		10.2	2.90	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Selenium	ND		3.05	1.24	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Thallium	ND		10.2	2.14	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Vanadium	**21.2**		1.02	0.171	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Zinc	**21.8**		5.08	1.17	mg/Kg		06/04/25 10:05	06/05/25 20:35	5
Lead	**2.79**	**B**	2.03	0.415	mg/Kg		06/04/25 10:05	06/05/25 20:35	5

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-1 10'
Date Collected: 06/02/25 10:40
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Arsenic	**28.0**		2.97	1.38	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Barium	**113**	**B**	2.97	0.141	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Beryllium	**0.248**	**J**	0.495	0.0683	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Cadmium	ND		0.495	0.162	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Cobalt	**2.86**		0.990	0.204	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Chromium	**11.8**		0.990	0.184	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Copper	**10.3**		1.98	0.949	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Molybdenum	**0.817**	**J**	1.98	0.510	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Nickel	**3.32**		1.98	0.358	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Antimony	ND		9.90	2.83	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Selenium	ND		2.97	1.21	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Thallium	ND		9.90	2.09	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Vanadium	**26.2**		0.990	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Zinc	**31.3**		4.95	1.14	mg/Kg		06/04/25 10:05	06/05/25 20:42	5
Lead	**15.7**	**B**	1.98	0.405	mg/Kg		06/04/25 10:05	06/05/25 20:42	5

Client Sample ID: B-5 2'
Date Collected: 06/02/25 11:30
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.53	0.147	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Arsenic	**9.60**		3.06	1.42	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Barium	**84.5**	**B**	3.06	0.145	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Beryllium	**0.306**	**J**	0.510	0.0704	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Cadmium	ND		0.510	0.167	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Cobalt	**3.30**		1.02	0.210	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Chromium	**9.27**		1.02	0.190	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Copper	**8.01**		2.04	0.978	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Molybdenum	ND		2.04	0.526	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Nickel	**4.29**		2.04	0.369	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Antimony	ND		10.2	2.92	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Selenium	ND		3.06	1.25	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Thallium	ND		10.2	2.15	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Vanadium	**21.9**		1.02	0.171	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Zinc	**28.2**		5.10	1.18	mg/Kg		06/04/25 10:05	06/05/25 20:44	5
Lead	**6.59**	**B**	2.04	0.417	mg/Kg		06/04/25 10:05	06/05/25 20:44	5

Client Sample ID: B-5 5'
Date Collected: 06/02/25 11:50
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.145	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Arsenic	**3.01**	**J**	3.03	1.41	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Barium	**62.2**	**B**	3.03	0.143	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Beryllium	**0.240**	**J**	0.505	0.0697	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Cadmium	ND		0.505	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Cobalt	**2.97**		1.01	0.208	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Chromium	**11.0**		1.01	0.188	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Copper	**6.12**		2.02	0.968	mg/Kg		06/04/25 10:05	06/05/25 20:47	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-5 5' — **Lab Sample ID: 570-232956-8**
Date Collected: 06/02/25 11:50 — **Matrix: Solid**
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		2.02	0.520	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Nickel	**4.17**		2.02	0.366	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Antimony	ND		10.1	2.89	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Selenium	ND		3.03	1.23	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Thallium	ND		10.1	2.13	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Vanadium	**23.4**		1.01	0.170	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Zinc	**32.0**		5.05	1.17	mg/Kg		06/04/25 10:05	06/05/25 20:47	5
Lead	**8.36**	**B**	2.02	0.413	mg/Kg		06/04/25 10:05	06/05/25 20:47	5

Client Sample ID: B-5 8' — **Lab Sample ID: 570-232956-9**
Date Collected: 06/02/25 12:30 — **Matrix: Solid**
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.53	0.147	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Arsenic	**21.7**		3.06	1.42	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Barium	**37.6**	**B**	3.06	0.145	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Beryllium	**0.230**	**J**	0.510	0.0704	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Cadmium	ND		0.510	0.167	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Cobalt	**2.56**		1.02	0.210	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Chromium	**13.6**		1.02	0.190	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Copper	**12.1**		2.04	0.978	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Molybdenum	**0.740**	**J**	2.04	0.526	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Nickel	**4.58**		2.04	0.369	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Antimony	ND		10.2	2.92	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Selenium	ND		3.06	1.25	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Thallium	ND		10.2	2.15	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Vanadium	**36.0**		1.02	0.171	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Zinc	**25.6**		5.10	1.18	mg/Kg		06/04/25 10:05	06/05/25 20:49	5
Lead	**4.60**	**B**	2.04	0.417	mg/Kg		06/04/25 10:05	06/05/25 20:49	5

Client Sample ID: B-13 2' — **Lab Sample ID: 570-232956-10**
Date Collected: 06/02/25 13:58 — **Matrix: Solid**
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.145	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Arsenic	**27.9**		3.03	1.41	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Barium	**95.5**	**B**	3.03	0.143	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Beryllium	**0.833**		0.505	0.0697	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Cadmium	ND		0.505	0.166	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Cobalt	**6.12**		1.01	0.208	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Chromium	**18.0**		1.01	0.188	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Copper	**26.8**		2.02	0.968	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Molybdenum	ND		2.02	0.520	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Nickel	**9.22**		2.02	0.366	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Antimony	ND		10.1	2.89	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Selenium	ND		3.03	1.23	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Thallium	ND		10.1	2.13	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Vanadium	**37.1**		1.01	0.170	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Zinc	**59.6**		5.05	1.17	mg/Kg		06/04/25 10:05	06/05/25 20:51	5
Lead	**11.7**	**B**	2.02	0.413	mg/Kg		06/04/25 10:05	06/05/25 20:51	5

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-13 5'
Lab Sample ID: 570-232956-11
Date Collected: 06/02/25 14:32
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Arsenic	**8.10**		3.00	1.39	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Barium	**21.1**	**B**	3.00	0.142	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Beryllium	**0.450**	**J**	0.500	0.0690	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Cadmium	ND		0.500	0.164	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Cobalt	**3.91**		1.00	0.206	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Chromium	**7.44**		1.00	0.186	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Copper	**5.74**		2.00	0.958	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Nickel	**3.83**		2.00	0.362	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Antimony	ND	F1	10.0	2.86	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Selenium	ND		3.00	1.22	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Thallium	ND		10.0	2.11	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Vanadium	**21.3**		1.00	0.168	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Zinc	**28.4**		5.00	1.16	mg/Kg		06/04/25 10:05	06/05/25 20:17	5
Lead	**4.40**	**B**	2.00	0.409	mg/Kg		06/04/25 10:05	06/05/25 20:17	5

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-3 2'
Date Collected: 06/02/25 08:25
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0230	mg/Kg		06/05/25 13:17	06/06/25 09:52	1

Client Sample ID: B-3 5'
Date Collected: 06/02/25 08:58
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0230	mg/Kg		06/05/25 13:17	06/06/25 10:01	1

Client Sample ID: B-3 10'
Date Collected: 06/02/25 09:16
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/05/25 13:17	06/06/25 10:31	1

Client Sample ID: B-1 2'
Date Collected: 06/02/25 09:54
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/05/25 13:17	06/06/25 10:25	1

Client Sample ID: B-1 5'
Date Collected: 06/02/25 10:30
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/05/25 13:17	06/06/25 10:07	1

Client Sample ID: B-1 10'
Date Collected: 06/02/25 10:40
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/05/25 13:17	06/06/25 10:09	1

Client Sample ID: B-5 2'
Date Collected: 06/02/25 11:30
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/05/25 13:17	06/06/25 10:10	1

Client Sample ID: B-5 5'
Date Collected: 06/02/25 11:50
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/05/25 13:17	06/06/25 10:12	1

Client Sample ID: B-5 8'
Date Collected: 06/02/25 12:30
Date Received: 06/03/25 16:05
Lab Sample ID: 570-232956-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0230	mg/Kg		06/05/25 13:17	06/06/25 10:14	1

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-13 2'
Lab Sample ID: 570-232956-10
Date Collected: 06/02/25 13:58
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0230	mg/Kg		06/05/25 13:17	06/06/25 10:16	1

Client Sample ID: B-13 5'
Lab Sample ID: 570-232956-11
Date Collected: 06/02/25 14:32
Matrix: Solid
Date Received: 06/03/25 16:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/05/25 13:17	06/06/25 10:22	1

Surrogate Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OTCSN1 (29-160)						
570-232937-G-61-B MS	Matrix Spike	136						
570-232937-G-61-C MSD	Matrix Spike Duplicate	140						
570-232956-1	B-3 2'	118						
570-232956-2	B-3 5'	109						
570-232956-3	B-3 10'	113						
570-232956-4	B-1 2'	111						
570-232956-5	B-1 5'	107						
570-232956-6	B-1 10'	110						
570-232956-7	B-5 2'	111						
570-232956-8	B-5 5'	112						
570-232956-9	B-5 8'	107						
570-232956-10	B-13 2'	111						
570-232956-11	B-13 5'	95						
570-233537-A-12-A MS	Matrix Spike	111						
570-233537-A-12-B MSD	Matrix Spike Duplicate	117						
LCS 570-581389/2-A	Lab Control Sample	140						
LCS 570-581675/2-A	Lab Control Sample	103						
LCSD 570-581389/3-A	Lab Control Sample Dup	137						
LCSD 570-581675/3-A	Lab Control Sample Dup	106						
MB 570-581389/1-A	Method Blank	92						
MB 570-581675/1-A	Method Blank	101						

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-581389/1-A
Matrix: Solid
Analysis Batch: 583460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C21-C22	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C23-C24	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C25-C28	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C29-C32	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C33-C36	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C37-C40	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C41-C44	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
C6-C44	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/09/25 10:29	06/13/25 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*92*		*29 - 160*	*06/09/25 10:29*	*06/13/25 08:25*	*1*

Lab Sample ID: LCS 570-581389/2-A
Matrix: Solid
Analysis Batch: 581476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	481.5		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*140*		*29 - 160*

Lab Sample ID: LCSD 570-581389/3-A
Matrix: Solid
Analysis Batch: 581476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	469.2		mg/Kg		117	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*137*		*29 - 160*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-232937-G-61-B MS
Matrix: Solid
Analysis Batch: 581476

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		398	455.2		mg/Kg		114	43 - 165		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*136*		*29 - 160*

Lab Sample ID: 570-232937-G-61-C MSD
Matrix: Solid
Analysis Batch: 581476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 581389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		396	476.1		mg/Kg		120	43 - 165	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*140*		*29 - 160*

Lab Sample ID: MB 570-581675/1-A
Matrix: Solid
Analysis Batch: 581930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C7	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C8	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C9-C10	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C11-C12	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C13-C14	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C15-C16	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C17-C18	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C19-C20	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C21-C22	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C23-C24	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C25-C28	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C29-C32	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C33-C36	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C37-C40	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C41-C44	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
C6-C44	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/09/25 19:09	06/10/25 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*29 - 160*	*06/09/25 19:09*	*06/10/25 12:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 570-581675/2-A
Matrix: Solid
Analysis Batch: 581930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581675

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	442.4		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*103*		*29 - 160*

Lab Sample ID: LCSD 570-581675/3-A
Matrix: Solid
Analysis Batch: 581930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	446.8		mg/Kg		112	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*106*		*29 - 160*

Lab Sample ID: 570-233537-A-12-A MS
Matrix: Solid
Analysis Batch: 581930

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	750		402	1308		mg/Kg		139	43 - 165		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*29 - 160*

Lab Sample ID: 570-233537-A-12-B MSD
Matrix: Solid
Analysis Batch: 581930

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 581675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	750		402	1283		mg/Kg		132	43 - 165	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*117*		*29 - 160*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-579416/1-A
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Arsenic	ND		3.00	1.39	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Barium	0.1625	J	3.00	0.142	mg/Kg		06/04/25 10:05	06/05/25 20:03	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 570-579416/1-A
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.500	0.0690	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Cadmium	ND		0.500	0.164	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Cobalt	ND		1.00	0.206	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Chromium	ND		1.00	0.186	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Copper	ND		2.00	0.958	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Nickel	ND		2.00	0.362	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Antimony	ND		10.0	2.86	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Selenium	ND		3.00	1.22	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Thallium	ND		10.0	2.11	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Vanadium	ND		1.00	0.168	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Zinc	ND		5.00	1.16	mg/Kg		06/04/25 10:05	06/05/25 20:03	5
Lead	0.5000	J	2.00	0.409	mg/Kg		06/04/25 10:05	06/05/25 20:03	5

Lab Sample ID: LCS 570-579416/2-A
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.0	23.90		mg/Kg		96	80 - 120
Arsenic	50.0	48.14		mg/Kg		96	80 - 120
Barium	50.0	48.88		mg/Kg		98	80 - 120
Beryllium	50.0	48.25		mg/Kg		97	80 - 120
Cadmium	50.0	48.09		mg/Kg		96	80 - 120
Cobalt	50.0	48.79		mg/Kg		98	80 - 120
Chromium	50.0	48.76		mg/Kg		98	80 - 120
Copper	50.0	49.35		mg/Kg		99	80 - 120
Molybdenum	50.0	49.05		mg/Kg		98	80 - 120
Nickel	50.0	49.06		mg/Kg		98	80 - 120
Antimony	50.0	50.68		mg/Kg		101	80 - 120
Selenium	50.0	46.49		mg/Kg		93	80 - 120
Thallium	50.0	47.06		mg/Kg		94	80 - 120
Vanadium	50.0	48.03		mg/Kg		96	80 - 120
Zinc	50.0	48.26		mg/Kg		97	80 - 120
Lead	50.0	48.86		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 570-579416/3-A
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 579416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	25.0	24.36		mg/Kg		97	80 - 120	2	20
Arsenic	50.0	47.84		mg/Kg		96	80 - 120	1	20
Barium	50.0	49.64		mg/Kg		99	80 - 120	2	20
Beryllium	50.0	49.06		mg/Kg		98	80 - 120	2	20
Cadmium	50.0	48.76		mg/Kg		98	80 - 120	1	20
Cobalt	50.0	49.45		mg/Kg		99	80 - 120	1	20
Chromium	50.0	49.44		mg/Kg		99	80 - 120	1	20
Copper	50.0	50.44		mg/Kg		101	80 - 120	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-579416/3-A
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 579416

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Molybdenum			50.0	49.29		mg/Kg		99	80 - 120	0	20
Nickel			50.0	49.81		mg/Kg		100	80 - 120	2	20
Antimony			50.0	49.48		mg/Kg		99	80 - 120	2	20
Selenium			50.0	46.76		mg/Kg		94	80 - 120	1	20
Thallium			50.0	47.99		mg/Kg		96	80 - 120	2	20
Vanadium			50.0	48.03		mg/Kg		96	80 - 120	0	20
Zinc			50.0	49.25		mg/Kg		99	80 - 120	2	20
Lead			50.0	48.91		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 570-232956-11 MS
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: B-13 5'
Prep Type: Total/NA
Prep Batch: 579416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		25.0	23.14		mg/Kg		93	75 - 125
Arsenic	8.10		50.0	58.25		mg/Kg		100	75 - 125
Barium	21.1	B	50.0	74.58		mg/Kg		107	75 - 125
Beryllium	0.450	J	50.0	47.33		mg/Kg		94	75 - 125
Cadmium	ND		50.0	45.36		mg/Kg		91	75 - 125
Cobalt	3.91		50.0	48.78		mg/Kg		90	75 - 125
Chromium	7.44		50.0	56.04		mg/Kg		97	75 - 125
Copper	5.74		50.0	55.28		mg/Kg		99	75 - 125
Molybdenum	ND		50.0	45.79		mg/Kg		92	75 - 125
Nickel	3.83		50.0	49.78		mg/Kg		92	75 - 125
Antimony	ND	F1	50.0	24.11	F1	mg/Kg		48	75 - 125
Selenium	ND		50.0	45.41		mg/Kg		91	75 - 125
Thallium	ND		50.0	44.20		mg/Kg		88	75 - 125
Vanadium	21.3		50.0	75.60		mg/Kg		109	75 - 125
Zinc	28.4		50.0	76.85		mg/Kg		97	75 - 125
Lead	4.40	B	50.0	50.18		mg/Kg		92	75 - 125

Lab Sample ID: 570-232956-11 MSD
Matrix: Solid
Analysis Batch: 580496

Client Sample ID: B-13 5'
Prep Type: Total/NA
Prep Batch: 579416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		25.1	21.37		mg/Kg		85	75 - 125	8	20
Arsenic	8.10		50.3	52.20		mg/Kg		88	75 - 125	11	20
Barium	21.1	B	50.3	65.25		mg/Kg		88	75 - 125	13	20
Beryllium	0.450	J	50.3	43.68		mg/Kg		86	75 - 125	8	20
Cadmium	ND		50.3	41.95		mg/Kg		83	75 - 125	8	20
Cobalt	3.91		50.3	45.29		mg/Kg		82	75 - 125	7	20
Chromium	7.44		50.3	51.12		mg/Kg		87	75 - 125	9	20
Copper	5.74		50.3	50.31		mg/Kg		89	75 - 125	9	20
Molybdenum	ND		50.3	42.50		mg/Kg		85	75 - 125	7	20
Nickel	3.83		50.3	45.59		mg/Kg		83	75 - 125	9	20
Antimony	ND	F1	50.3	23.12	F1	mg/Kg		46	75 - 125	4	20
Selenium	ND		50.3	41.90		mg/Kg		83	75 - 125	8	20
Thallium	ND		50.3	41.70		mg/Kg		83	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-232956-11 MSD — **Client Sample ID: B-13 5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580496 — **Prep Batch: 579416**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	21.3		50.3	67.55		mg/Kg		92	75 - 125	11	20
Zinc	28.4		50.3	69.72		mg/Kg		82	75 - 125	10	20
Lead	4.40	B	50.3	48.67		mg/Kg		88	75 - 125	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-580050/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580584 — **Prep Batch: 580050**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/05/25 13:17	06/06/25 09:46	1

Lab Sample ID: LCS 570-580050/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580584 — **Prep Batch: 580050**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.392	0.3354		mg/Kg		86	80 - 120

Lab Sample ID: LCSD 570-580050/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580584 — **Prep Batch: 580050**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.385	0.3382		mg/Kg		88	80 - 120	1	20

Lab Sample ID: 570-232956-1 MS — **Client Sample ID: B-3 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580584 — **Prep Batch: 580050**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.377	0.2984		mg/Kg		79	75 - 125

Lab Sample ID: 570-232956-1 MSD — **Client Sample ID: B-3 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 580584 — **Prep Batch: 580050**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.426	0.3631		mg/Kg		85	75 - 125	20	20

GC Semi VOA

Prep Batch: 581389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-11	B-13 5'	Total/NA	Solid	3550C	
MB 570-581389/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-581389/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-581389/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-232937-G-61-B MS	Matrix Spike	Total/NA	Solid	3550C	
570-232937-G-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 581476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-581389/2-A	Lab Control Sample	Total/NA	Solid	8015B	581389
LCSD 570-581389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	581389
570-232937-G-61-B MS	Matrix Spike	Total/NA	Solid	8015B	581389
570-232937-G-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	581389

Prep Batch: 581675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	3550C	
570-232956-2	B-3 5'	Total/NA	Solid	3550C	
570-232956-3	B-3 10'	Total/NA	Solid	3550C	
570-232956-4	B-1 2'	Total/NA	Solid	3550C	
570-232956-5	B-1 5'	Total/NA	Solid	3550C	
570-232956-6	B-1 10'	Total/NA	Solid	3550C	
570-232956-7	B-5 2'	Total/NA	Solid	3550C	
570-232956-8	B-5 5'	Total/NA	Solid	3550C	
570-232956-9	B-5 8'	Total/NA	Solid	3550C	
570-232956-10	B-13 2'	Total/NA	Solid	3550C	
MB 570-581675/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-581675/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-581675/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-233537-A-12-A MS	Matrix Spike	Total/NA	Solid	3550C	
570-233537-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 581930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581675/1-A	Method Blank	Total/NA	Solid	8015B	581675
LCS 570-581675/2-A	Lab Control Sample	Total/NA	Solid	8015B	581675
LCSD 570-581675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	581675
570-233537-A-12-A MS	Matrix Spike	Total/NA	Solid	8015B	581675
570-233537-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	581675

Analysis Batch: 582726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	8015B	581675
570-232956-2	B-3 5'	Total/NA	Solid	8015B	581675
570-232956-3	B-3 10'	Total/NA	Solid	8015B	581675
570-232956-4	B-1 2'	Total/NA	Solid	8015B	581675
570-232956-5	B-1 5'	Total/NA	Solid	8015B	581675
570-232956-6	B-1 10'	Total/NA	Solid	8015B	581675
570-232956-7	B-5 2'	Total/NA	Solid	8015B	581675
570-232956-8	B-5 5'	Total/NA	Solid	8015B	581675
570-232956-9	B-5 8'	Total/NA	Solid	8015B	581675

GC Semi VOA (Continued)

Analysis Batch: 582726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-10	B-13 2'	Total/NA	Solid	8015B	581675

Analysis Batch: 583159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-11	B-13 5'	Total/NA	Solid	8015B	581389

Analysis Batch: 583460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581389/1-A	Method Blank	Total/NA	Solid	8015B	581389

Metals

Prep Batch: 579416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	3050B	
570-232956-2	B-3 5'	Total/NA	Solid	3050B	
570-232956-3	B-3 10'	Total/NA	Solid	3050B	
570-232956-4	B-1 2'	Total/NA	Solid	3050B	
570-232956-5	B-1 5'	Total/NA	Solid	3050B	
570-232956-6	B-1 10'	Total/NA	Solid	3050B	
570-232956-7	B-5 2'	Total/NA	Solid	3050B	
570-232956-8	B-5 5'	Total/NA	Solid	3050B	
570-232956-9	B-5 8'	Total/NA	Solid	3050B	
570-232956-10	B-13 2'	Total/NA	Solid	3050B	
570-232956-11	B-13 5'	Total/NA	Solid	3050B	
MB 570-579416/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-579416/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-579416/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-232956-11 MS	B-13 5'	Total/NA	Solid	3050B	
570-232956-11 MSD	B-13 5'	Total/NA	Solid	3050B	

Prep Batch: 580050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	7471A	
570-232956-2	B-3 5'	Total/NA	Solid	7471A	
570-232956-3	B-3 10'	Total/NA	Solid	7471A	
570-232956-4	B-1 2'	Total/NA	Solid	7471A	
570-232956-5	B-1 5'	Total/NA	Solid	7471A	
570-232956-6	B-1 10'	Total/NA	Solid	7471A	
570-232956-7	B-5 2'	Total/NA	Solid	7471A	
570-232956-8	B-5 5'	Total/NA	Solid	7471A	
570-232956-9	B-5 8'	Total/NA	Solid	7471A	
570-232956-10	B-13 2'	Total/NA	Solid	7471A	
570-232956-11	B-13 5'	Total/NA	Solid	7471A	
MB 570-580050/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-580050/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-580050/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-232956-1 MS	B-3 2'	Total/NA	Solid	7471A	
570-232956-1 MSD	B-3 2'	Total/NA	Solid	7471A	

QC Association Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Metals

Analysis Batch: 580496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	6010B	579416
570-232956-2	B-3 5'	Total/NA	Solid	6010B	579416
570-232956-3	B-3 10'	Total/NA	Solid	6010B	579416
570-232956-4	B-1 2'	Total/NA	Solid	6010B	579416
570-232956-5	B-1 5'	Total/NA	Solid	6010B	579416
570-232956-6	B-1 10'	Total/NA	Solid	6010B	579416
570-232956-7	B-5 2'	Total/NA	Solid	6010B	579416
570-232956-8	B-5 5'	Total/NA	Solid	6010B	579416
570-232956-9	B-5 8'	Total/NA	Solid	6010B	579416
570-232956-10	B-13 2'	Total/NA	Solid	6010B	579416
570-232956-11	B-13 5'	Total/NA	Solid	6010B	579416
MB 570-579416/1-A	Method Blank	Total/NA	Solid	6010B	579416
LCS 570-579416/2-A	Lab Control Sample	Total/NA	Solid	6010B	579416
LCSD 570-579416/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	579416
570-232956-11 MS	B-13 5'	Total/NA	Solid	6010B	579416
570-232956-11 MSD	B-13 5'	Total/NA	Solid	6010B	579416

Analysis Batch: 580584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-232956-1	B-3 2'	Total/NA	Solid	7471A	580050
570-232956-2	B-3 5'	Total/NA	Solid	7471A	580050
570-232956-3	B-3 10'	Total/NA	Solid	7471A	580050
570-232956-4	B-1 2'	Total/NA	Solid	7471A	580050
570-232956-5	B-1 5'	Total/NA	Solid	7471A	580050
570-232956-6	B-1 10'	Total/NA	Solid	7471A	580050
570-232956-7	B-5 2'	Total/NA	Solid	7471A	580050
570-232956-8	B-5 5'	Total/NA	Solid	7471A	580050
570-232956-9	B-5 8'	Total/NA	Solid	7471A	580050
570-232956-10	B-13 2'	Total/NA	Solid	7471A	580050
570-232956-11	B-13 5'	Total/NA	Solid	7471A	580050
MB 570-580050/1-A	Method Blank	Total/NA	Solid	7471A	580050
LCS 570-580050/2-A	Lab Control Sample	Total/NA	Solid	7471A	580050
LCSD 570-580050/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	580050
570-232956-1 MS	B-3 2'	Total/NA	Solid	7471A	580050
570-232956-1 MSD	B-3 2'	Total/NA	Solid	7471A	580050

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-3 2'
Lab Sample ID: 570-232956-1
Date Collected: 06/02/25 08:25
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.94 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 20:36	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.03 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:26	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.50 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 09:52	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-3 5'
Lab Sample ID: 570-232956-2
Date Collected: 06/02/25 08:58
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.14 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 20:57	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.00 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:28	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.50 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:01	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-3 10'
Lab Sample ID: 570-232956-3
Date Collected: 06/02/25 09:16
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.13 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 21:19	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.99 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:31	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.51 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:31	RL6Q	EET CAL 4
	Instrument ID: HG7									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-1 2'
Lab Sample ID: 570-232956-4
Date Collected: 06/02/25 09:54
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.96 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 21:40	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.97 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:33	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.51 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:25	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-1 5'
Lab Sample ID: 570-232956-5
Date Collected: 06/02/25 10:30
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.06 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 22:01	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.97 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:35	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.47 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:07	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-1 10'
Lab Sample ID: 570-232956-6
Date Collected: 06/02/25 10:40
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.92 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 22:23	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.02 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:42	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.49 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:09	RL6Q	EET CAL 4
	Instrument ID: HG7									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-5 2'
Lab Sample ID: 570-232956-7
Date Collected: 06/02/25 11:30
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.14 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 22:44	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.96 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:44	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.51 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:10	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-5 5'
Lab Sample ID: 570-232956-8
Date Collected: 06/02/25 11:50
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.12 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 23:06	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.98 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:47	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.47 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:12	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-5 8'
Lab Sample ID: 570-232956-9
Date Collected: 06/02/25 12:30
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 23:27	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.96 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:49	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.50 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:14	RL6Q	EET CAL 4
	Instrument ID: HG7									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Client Sample ID: B-13 2'
Lab Sample ID: 570-232956-10
Date Collected: 06/02/25 13:58
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.13 g	10 mL	581675	06/09/25 19:09	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	582726	06/11/25 23:48	E5RH	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.98 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:51	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.50 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:16	RL6Q	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: B-13 5'
Lab Sample ID: 570-232956-11
Date Collected: 06/02/25 14:32
Matrix: Solid
Date Received: 06/03/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.03 g	10 mL	581389	06/09/25 10:29	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	583159	06/12/25 22:34	H6FE	EET CAL 4
	Instrument ID: GC50B									
Total/NA	Prep	3050B			2.00 g	50 mL	579416	06/04/25 10:05	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			580496	06/05/25 20:17	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.52 g	50 mL	580050	06/05/25 13:17	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			580584	06/06/25 10:22	RL6Q	EET CAL 4
	Instrument ID: HG7									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Job ID: 570-232956-1
Project/Site: UCSD - Medical Center / 110064001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-232956-1	B-3 2'	Solid	06/02/25 08:25	06/03/25 16:05
570-232956-2	B-3 5'	Solid	06/02/25 08:58	06/03/25 16:05
570-232956-3	B-3 10'	Solid	06/02/25 09:16	06/03/25 16:05
570-232956-4	B-1 2'	Solid	06/02/25 09:54	06/03/25 16:05
570-232956-5	B-1 5'	Solid	06/02/25 10:30	06/03/25 16:05
570-232956-6	B-1 10'	Solid	06/02/25 10:40	06/03/25 16:05
570-232956-7	B-5 2'	Solid	06/02/25 11:30	06/03/25 16:05
570-232956-8	B-5 5'	Solid	06/02/25 11:50	06/03/25 16:05
570-232956-9	B-5 8'	Solid	06/02/25 12:30	06/03/25 16:05
570-232956-10	B-13 2'	Solid	06/02/25 13:58	06/03/25 16:05
570-232956-11	B-13 5'	Solid	06/02/25 14:32	06/03/25 16:05

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232956

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY:

DATE: 6/2/25

PAGE: 1 OF 2

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

PROJECT CONTACT: Gabriel Smith

CLIENT PROJECT NAME / NUMBER: 110064007 UCSD/MED CENTER LA JOLLA OUTPATIENT PAVILION

P.O. NO.:

SAMPLER(S): (PRINT) CAMERON HIGMAN

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project # 5 7025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	TITLE 22 METALS
1	B-3 2'	6/2	8:25 A	Soil	1	X			X	X
2	B-3 5'	6/2	8:58 A	Soil	1	X			X	X
3	B-3 10'	6/2	9:16 A	Soil	1	X			X	X
4	B-1 2'	6/2	9:54 A	Soil	1	X			X	X
5	B-1 5'	6/2	10:30 A	Soil	1	X			X	X
6	B-1 10'	6/2	10:40 A	Soil	1	X			X	X
7	B-5 2'	6/2	11:30 A	Soil	1	X			X	X
8	B-5 5'	6/2	11:50 A	Soil	1	X			X	X
9	B-5 8'	6/2	12:30 P	Soil	1	X			X	X
10	B-13 2'	6/2	1:58 P	Soil	1	X			X	X

570-232956 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/2/25	Time: 5:00 pm
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/3/25	Time: 1315
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/3/25	Time: 1605

MMGM

Scll 1.1/1.6

232956

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 6/2/25

PAGE: 2 OF 2

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD/MEDICAL CENTER LA JOLLA OUTPATIENT PAVILION

P.O. NO.:

PROJECT CONTACT: Gabriel Smith

SAMPLER(S): (PRINT) CAMERON HIGMAN

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI Project # 57025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	TITLE 22 METALS
11	B-13 5'	6/2	2:32P	Soil	1	X			X	X

Relinquished by: (Signature) — Received by: (Signature/Affiliation) — Date: 6/2/25 — Time: 5:00 PM

Relinquished by: (Signature) Sample Kit — Received by: (Signature/Affiliation) EC — Date: 6-3-25 — Time: 1315

Relinquished by: (Signature) — Received by: (Signature/Affiliation) — Date: 6-5-25 — Time: 1605

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-232956-1

Login Number: 232956

List Source: Eurofins Calscience

List Number: 1

Creator: Ablian, Samantha

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

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JOB DESCRIPTION

UCSD-Medical Center La Jolla Outpatient /110064001

JOB NUMBER

570-233471-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

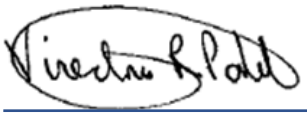
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Virendra Patel, Project Manager I
Virendra.Patel@et.eurofinsus.com
(714)895-5494

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 15
Surrogate Summary 42
QC Sample Results 43
QC Association Summary 55
Lab Chronicle 61
Certification Summary 70
Method Summary 71
Sample Summary 72
Chain of Custody 73
Receipt Checklists 76

Definitions/Glossary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-233471-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2025 7:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Diesel Range Organics
Method 8015B_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-584944 and analytical batch 570-585002 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015B_DRO: The method blank for preparation batch 570-584944 and analytical batch 570-585002 contained C6-C44 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B_DRO: The matrix spike duplicate (MSD) precision for preparation batch 570-584944 and analytical batch 570-585002 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010B: The serial dilution performed for the following sample associated with batch 570-581621 was outside control limits: (570-233471-A-21-A SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-581312 and analytical batch 570-581621 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6010B: The method blank for preparation batch 570-581312 and analytical batch 570-581621 contained < Silver> above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-581810 and analytical batch 570-582224 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium associated with batch 570-582224 was outside of control limits. The associated sample is: (570-233815-A-1-A PDS).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-581310 and analytical batch 570-583481 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Job ID: 570-233471-1 (Continued) Eurofins Calscience

Method 6010B: The post digestion spike % recovery for Barium, Vanadium and Zinc associated with batch 570-583481 was outside of control limits. The associated sample is: (570-233471-A-5-A PDS).

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-582617 and analytical batch 570-583151 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-582566 and 570-582617 and analytical batch 570-583151 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Job ID: 570-233471-1

Client Sample ID: B-7 2'

Lab Sample ID: 570-233471-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.40		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	117		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.176	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	2.60		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	10.8		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	4.45		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	3.71		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	23.7		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	11.7		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	3.38		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-7 5'

Lab Sample ID: 570-233471-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	4.9	J	25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	4.7	J	5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	3.13		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	105		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.190	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	2.65		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	13.8		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	10.5		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	4.52		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	28.1		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	21.7		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	1.95	J	2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-7 10'

Lab Sample ID: 570-233471-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15.2		3.03	1.41	mg/Kg	5		6010B	Total/NA
Barium	45.9		3.03	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.934		0.505	0.0697	mg/Kg	5		6010B	Total/NA
Cobalt	8.62		1.01	0.208	mg/Kg	5		6010B	Total/NA
Chromium	13.2		1.01	0.188	mg/Kg	5		6010B	Total/NA
Copper	38.2		2.02	0.968	mg/Kg	5		6010B	Total/NA
Molybdenum	0.568	J	2.02	0.520	mg/Kg	5		6010B	Total/NA
Nickel	11.8		2.02	0.366	mg/Kg	5		6010B	Total/NA
Vanadium	26.8		1.01	0.170	mg/Kg	5		6010B	Total/NA
Zinc	74.4		5.05	1.17	mg/Kg	5		6010B	Total/NA
Lead	67.9		2.02	0.413	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-15 2'

Lab Sample ID: 570-233471-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.82	J	3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	24.1		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.470	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	9.61		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	8.53		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	8.60		2.03	0.973	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-15 2' (Continued) — Lab Sample ID: 570-233471-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	5.16		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	19.2		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	33.2		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	5.75		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-15 5' — Lab Sample ID: 570-233471-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.55		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	30.8		3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.463	J	0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	3.43		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	7.00		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	4.00		2.00	0.958	mg/Kg	5		6010B	Total/NA
Nickel	3.56		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	17.5		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	23.3		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	3.10		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-15 10' — Lab Sample ID: 570-233471-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.43	J	2.99	1.38	mg/Kg	5		6010B	Total/NA
Barium	43.2		2.99	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.498		0.498	0.0687	mg/Kg	5		6010B	Total/NA
Cobalt	2.36		0.995	0.205	mg/Kg	5		6010B	Total/NA
Chromium	9.02		0.995	0.185	mg/Kg	5		6010B	Total/NA
Copper	4.96		1.99	0.953	mg/Kg	5		6010B	Total/NA
Nickel	3.58		1.99	0.360	mg/Kg	5		6010B	Total/NA
Vanadium	16.8		0.995	0.167	mg/Kg	5		6010B	Total/NA
Zinc	23.2		4.98	1.15	mg/Kg	5		6010B	Total/NA
Lead	2.48		1.99	0.407	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-14 2' — Lab Sample ID: 570-233471-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.22		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	51.0		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.228	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	3.36		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	9.01		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	4.94		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	4.11		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	20.7		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	24.0		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	4.94		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-14 5' — Lab Sample ID: 570-233471-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.69	J	3.06	1.42	mg/Kg	5		6010B	Total/NA
Barium	33.4		3.06	0.145	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-14 5' (Continued)
Lab Sample ID: 570-233471-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.459	J	0.510	0.0704	mg/Kg	5		6010B	Total/NA
Cobalt	7.40		1.02	0.210	mg/Kg	5		6010B	Total/NA
Chromium	8.25		1.02	0.190	mg/Kg	5		6010B	Total/NA
Copper	5.15		2.04	0.978	mg/Kg	5		6010B	Total/NA
Nickel	4.01		2.04	0.369	mg/Kg	5		6010B	Total/NA
Vanadium	18.5		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	23.9		5.10	1.18	mg/Kg	5		6010B	Total/NA
Lead	3.37		2.04	0.417	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-14 10'
Lab Sample ID: 570-233471-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.90	J	3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	30.8		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.440	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	3.24		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	7.35		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	4.62		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	3.73		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	16.8		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	25.4		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	3.58		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-12 2'
Lab Sample ID: 570-233471-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	5.6	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	9.56		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	52.3		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.251	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	2.39		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	9.72		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	8.05		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	3.56		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	27.8		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	23.7		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	5.40		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-12 5'
Lab Sample ID: 570-233471-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16.4		3.06	1.42	mg/Kg	5		6010B	Total/NA
Barium	23.6		3.06	0.145	mg/Kg	5		6010B	Total/NA
Beryllium	0.459	J	0.510	0.0704	mg/Kg	5		6010B	Total/NA
Cobalt	3.52		1.02	0.210	mg/Kg	5		6010B	Total/NA
Chromium	8.78		1.02	0.190	mg/Kg	5		6010B	Total/NA
Copper	8.06		2.04	0.978	mg/Kg	5		6010B	Total/NA
Nickel	5.05		2.04	0.369	mg/Kg	5		6010B	Total/NA
Vanadium	34.2		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	31.1		5.10	1.18	mg/Kg	5		6010B	Total/NA
Lead	6.48		2.04	0.417	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-12 10'
Lab Sample ID: 570-233471-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.44		2.96	1.37	mg/Kg	5		6010B	Total/NA
Barium	21.0		2.96	0.140	mg/Kg	5		6010B	Total/NA
Beryllium	0.456	J	0.493	0.0680	mg/Kg	5		6010B	Total/NA
Cobalt	10.2		0.985	0.203	mg/Kg	5		6010B	Total/NA
Chromium	6.70		0.985	0.183	mg/Kg	5		6010B	Total/NA
Copper	4.75		1.97	0.944	mg/Kg	5		6010B	Total/NA
Nickel	4.11		1.97	0.357	mg/Kg	5		6010B	Total/NA
Vanadium	17.0		0.985	0.166	mg/Kg	5		6010B	Total/NA
Zinc	26.6		4.93	1.14	mg/Kg	5		6010B	Total/NA
Lead	2.52		1.97	0.403	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-9 2 '
Lab Sample ID: 570-233471-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.22		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	91.3		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.203	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	2.75		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	11.2		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	6.65		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	4.01		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	23.4		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	19.5		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	9.04		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-9 5'
Lab Sample ID: 570-233471-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	33.3		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	48.2		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.691		0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	6.08		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	14.8		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	17.9		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	7.20		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	35.2		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	50.2		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	11.5		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-9 10'
Lab Sample ID: 570-233471-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13.9		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	40.9		3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.825		0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	9.73		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	10.1		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	9.20		2.00	0.958	mg/Kg	5		6010B	Total/NA
Nickel	7.69		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	21.9		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	46.7		5.00	1.16	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-9 10' (Continued) — Lab Sample ID: 570-233471-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.20		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-10 2' — Lab Sample ID: 570-233471-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.94	J	3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	17.4		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.201	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	1.73		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	15.7		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	4.67		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	3.17		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	23.0		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	11.0		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	2.25		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-10 5' — Lab Sample ID: 570-233471-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.93	J	3.03	1.41	mg/Kg	5		6010B	Total/NA
Barium	18.5		3.03	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.253	J	0.505	0.0697	mg/Kg	5		6010B	Total/NA
Cobalt	3.41		1.01	0.208	mg/Kg	5		6010B	Total/NA
Chromium	9.55		1.01	0.188	mg/Kg	5		6010B	Total/NA
Copper	6.45		2.02	0.968	mg/Kg	5		6010B	Total/NA
Nickel	4.23		2.02	0.366	mg/Kg	5		6010B	Total/NA
Vanadium	20.8		1.01	0.170	mg/Kg	5		6010B	Total/NA
Zinc	29.8		5.05	1.17	mg/Kg	5		6010B	Total/NA
Lead	3.07		2.02	0.413	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-10 10' — Lab Sample ID: 570-233471-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.32	J	3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	16.8		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.406	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	4.49		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	7.01		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	4.57		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	3.95		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	16.5		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	27.6		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	3.19		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-6 2' — Lab Sample ID: 570-233471-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.89		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	48.0		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.305	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	4.23		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	10.8		1.02	0.189	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-6 2' (Continued)
Lab Sample ID: 570-233471-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	5.91		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	5.27		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	23.9		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	20.5		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	6.08		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-6 5'
Lab Sample ID: 570-233471-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.84	J	3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	10.3		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.264	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	1.55		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	9.57		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	3.88		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	4.01		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	22.1		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	9.94		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	1.52	J	2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-6 10'
Lab Sample ID: 570-233471-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	9.6	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	20.2	F1	3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	59.5	F1	3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.788		0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	6.04		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	17.5		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	29.2	F1	2.00	0.958	mg/Kg	5		6010B	Total/NA
Molybdenum	0.638	J	2.00	0.515	mg/Kg	5		6010B	Total/NA
Nickel	11.0		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	42.3	F1	1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	61.1	F1	5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	12.0		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-16 2'
Lab Sample ID: 570-233471-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	8.6	J	25	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	4.23		2.97	1.38	mg/Kg	5		6010B	Total/NA
Barium	52.9		2.97	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.248	J	0.495	0.0683	mg/Kg	5		6010B	Total/NA
Cobalt	2.25		0.990	0.204	mg/Kg	5		6010B	Total/NA
Chromium	8.32		0.990	0.184	mg/Kg	5		6010B	Total/NA
Copper	4.13		1.98	0.949	mg/Kg	5		6010B	Total/NA
Nickel	2.76		1.98	0.358	mg/Kg	5		6010B	Total/NA
Vanadium	21.4		0.990	0.166	mg/Kg	5		6010B	Total/NA
Zinc	12.1		4.95	1.14	mg/Kg	5		6010B	Total/NA
Lead	4.22		1.98	0.405	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-17 2'
Lab Sample ID: 570-233471-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	8.6	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	3.65		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	95.6		3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.213	J	0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	2.09		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	8.61		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	4.43		2.00	0.958	mg/Kg	5		6010B	Total/NA
Nickel	2.79		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	20.9		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	12.8		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	4.29		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-18 2'
Lab Sample ID: 570-233471-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C24	6.6		4.9	4.5	mg/Kg	1		8015B	Total/NA
C25-C28	28		4.9	4.5	mg/Kg	1		8015B	Total/NA
C29-C32	51		4.9	4.5	mg/Kg	1		8015B	Total/NA
C33-C36	47		4.9	4.5	mg/Kg	1		8015B	Total/NA
C37-C40	33		4.9	4.5	mg/Kg	1		8015B	Total/NA
C41-C44	13		4.9	4.5	mg/Kg	1		8015B	Total/NA
C6-C44	190		25	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	43		4.9	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	7.11		2.99	1.38	mg/Kg	5		6010B	Total/NA
Barium	83.1		2.99	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.261	J	0.498	0.0687	mg/Kg	5		6010B	Total/NA
Cobalt	2.71		0.995	0.205	mg/Kg	5		6010B	Total/NA
Chromium	10.0		0.995	0.185	mg/Kg	5		6010B	Total/NA
Copper	9.83		1.99	0.953	mg/Kg	5		6010B	Total/NA
Nickel	4.04		1.99	0.360	mg/Kg	5		6010B	Total/NA
Vanadium	23.1		0.995	0.167	mg/Kg	5		6010B	Total/NA
Zinc	22.6		4.98	1.15	mg/Kg	5		6010B	Total/NA
Lead	6.97		1.99	0.407	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-19 2'
Lab Sample ID: 570-233471-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	4.5	J	5.0	4.5	mg/Kg	1		8015B	Total/NA
C21-C22	6.1		5.0	4.5	mg/Kg	1		8015B	Total/NA
C23-C24	12		5.0	4.5	mg/Kg	1		8015B	Total/NA
C25-C28	46		5.0	4.5	mg/Kg	1		8015B	Total/NA
C29-C32	73		5.0	4.5	mg/Kg	1		8015B	Total/NA
C33-C36	62		5.0	4.5	mg/Kg	1		8015B	Total/NA
C37-C40	41		5.0	4.5	mg/Kg	1		8015B	Total/NA
C41-C44	17		5.0	4.5	mg/Kg	1		8015B	Total/NA
C6-C44	270		25	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	75		5.0	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	10.1		3.06	1.42	mg/Kg	5		6010B	Total/NA
Barium	88.2		3.06	0.145	mg/Kg	5		6010B	Total/NA
Beryllium	0.319	J	0.510	0.0704	mg/Kg	5		6010B	Total/NA
Cobalt	3.33		1.02	0.210	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-19 2' (Continued)
Lab Sample ID: 570-233471-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	10.2		1.02	0.190	mg/Kg	5		6010B	Total/NA
Copper	11.4		2.04	0.978	mg/Kg	5		6010B	Total/NA
Nickel	4.92		2.04	0.369	mg/Kg	5		6010B	Total/NA
Vanadium	24.6		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	32.1		5.10	1.18	mg/Kg	5		6010B	Total/NA
Lead	9.89		2.04	0.417	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-7 2'
Lab Sample ID: 570-233471-1
Date Collected: 06/04/25 07:20
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
C6-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*29 - 160*	*06/16/25 18:07*	*06/17/25 01:26*	*1*

Client Sample ID: B-7 5'
Lab Sample ID: 570-233471-2
Date Collected: 06/04/25 07:36
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
C6-C44	**4.9**	**J**	25	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1
Diesel Range Organics [C10-C28]	**4.7**	**J**	5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*120*		*29 - 160*	*06/16/25 18:07*	*06/17/25 01:48*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-7 10'
Date Collected: 06/04/25 08:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*103*		*29 - 160*	*06/16/25 18:07*	*06/17/25 02:10*	*1*

Client Sample ID: B-15 2'
Date Collected: 06/04/25 09:18
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*102*		*29 - 160*	*06/16/25 18:07*	*06/17/25 02:32*	*1*

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-15 5'
Date Collected: 06/04/25 09:40
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*94*		*29 - 160*	*06/16/25 18:07*	*06/17/25 02:54*	*1*

Client Sample ID: B-15 10'
Date Collected: 06/04/25 09:57
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*102*		*29 - 160*	*06/16/25 18:07*	*06/17/25 03:16*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-14 2'
Date Collected: 06/04/25 11:03
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*102*		*29 - 160*	*06/16/25 18:07*	*06/17/25 03:38*	*1*

Client Sample ID: B-14 5'
Date Collected: 06/04/25 11:25
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C7	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C8	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C9-C10	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C11-C12	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C13-C14	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C15-C16	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C17-C18	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C19-C20	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C21-C22	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C23-C24	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C25-C28	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C29-C32	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C33-C36	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C37-C40	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C41-C44	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*29 - 160*	*06/16/25 18:07*	*06/17/25 04:00*	*1*

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-14 10'
Lab Sample ID: 570-233471-9
Date Collected: 06/04/25 11:44
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*99*		*29 - 160*	*06/16/25 18:07*	*06/17/25 04:21*	*1*

Client Sample ID: B-12 2'
Lab Sample ID: 570-233471-10
Date Collected: 06/04/25 12:02
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
C6-C44	**5.6**	**J**	25	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*29 - 160*	*06/16/25 18:07*	*06/17/25 04:43*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Job ID: 570-233471-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-12 5'
Date Collected: 06/04/25 12:16
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C7	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C8	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C9-C10	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C11-C12	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C13-C14	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C15-C16	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C17-C18	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C19-C20	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C21-C22	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C23-C24	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C25-C28	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C29-C32	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C33-C36	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C37-C40	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C41-C44	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*100*		*29 - 160*	*06/16/25 18:07*	*06/17/25 05:05*	*1*

Client Sample ID: B-12 10'
Date Collected: 06/04/25 12:37
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*104*		*29 - 160*	*06/16/25 18:07*	*06/17/25 05:27*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-9 2 '
Lab Sample ID: 570-233471-13
Date Collected: 06/04/25 13:34
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*103*		*29 - 160*	*06/16/25 18:07*	*06/17/25 05:49*	*1*

Client Sample ID: B-9 5'
Lab Sample ID: 570-233471-14
Date Collected: 06/04/25 13:53
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*96*		*29 - 160*	*06/16/25 18:07*	*06/17/25 06:10*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-9 10'
Lab Sample ID: 570-233471-15
Date Collected: 06/04/25 14:07
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*84*		*29 - 160*	*06/16/25 18:07*	*06/17/25 06:32*	*1*

Client Sample ID: B-10 2'
Lab Sample ID: 570-233471-16
Date Collected: 06/04/25 14:47
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*83*		*29 - 160*	*06/16/25 18:07*	*06/17/25 07:16*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-10 5'
Date Collected: 06/04/25 15:08
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C7	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C8	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C9-C10	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C11-C12	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C13-C14	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C15-C16	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C17-C18	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C19-C20	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C21-C22	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C23-C24	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C25-C28	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C29-C32	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C33-C36	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C37-C40	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C41-C44	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		06/16/25 18:07	06/17/25 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*86*		*29 - 160*	*06/16/25 18:07*	*06/17/25 07:39*	*1*

Client Sample ID: B-10 10'
Date Collected: 06/04/25 15:20
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*87*		*29 - 160*	*06/16/25 18:07*	*06/17/25 08:02*	*1*

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-6 2'
Date Collected: 06/04/25 16:16
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/17/25 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*96*		*29 - 160*	*06/16/25 18:07*	*06/17/25 08:25*	*1*

Client Sample ID: B-6 5'
Date Collected: 06/04/25 16:33
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
C6-C44	ND		25	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:07	06/17/25 08:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*89*		*29 - 160*	*06/16/25 18:07*	*06/17/25 08:47*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Job ID: 570-233471-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-6 10'
Date Collected: 06/04/25 16:44
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
C6-C44	**9.6**	**J**	25	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*114*		*29 - 160*	*06/16/25 18:23*	*06/17/25 10:55*	*1*

Client Sample ID: B-16 2'
Date Collected: 06/04/25 13:09
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C19-C20	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C21-C22	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C23-C24	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C25-C28	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C29-C32	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C33-C36	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C37-C40	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C41-C44	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
C6-C44	**8.6**	**J**	25	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*112*		*29 - 160*	*06/16/25 18:23*	*06/17/25 11:16*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-17 2'
Lab Sample ID: 570-233471-23
Date Collected: 06/04/25 12:24
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
C6-C44	**8.6**	**J**	25	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/17/25 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*113*		*29 - 160*	*06/16/25 18:23*	*06/17/25 11:38*	*1*

Client Sample ID: B-18 2'
Lab Sample ID: 570-233471-24
Date Collected: 06/04/25 11:18
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C7	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C8	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C9-C10	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C11-C12	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C13-C14	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C15-C16	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C17-C18	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C19-C20	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C21-C22	ND		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C23-C24	**6.6**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C25-C28	**28**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C29-C32	**51**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C33-C36	**47**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C37-C40	**33**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C41-C44	**13**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
C6-C44	**190**		25	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1
Diesel Range Organics [C10-C28]	**43**		4.9	4.5	mg/Kg		06/16/25 18:23	06/17/25 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*112*		*29 - 160*	*06/16/25 18:23*	*06/17/25 11:59*	*1*

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-19 2'
Lab Sample ID: 570-233471-25
Date Collected: 06/04/25 09:58
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C7	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C8	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C9-C10	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C11-C12	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C13-C14	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C15-C16	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C17-C18	ND		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C19-C20	**4.5**	**J**	5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C21-C22	**6.1**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C23-C24	**12**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C25-C28	**46**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C29-C32	**73**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C33-C36	**62**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C37-C40	**41**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C41-C44	**17**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
C6-C44	**270**		25	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1
Diesel Range Organics [C10-C28]	**75**		5.0	4.5	mg/Kg		06/16/25 18:23	06/17/25 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*29 - 160*	*06/16/25 18:23*	*06/17/25 12:20*	*1*

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-7 2'
Date Collected: 06/04/25 07:20
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Arsenic	**3.40**		3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Barium	**117**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Beryllium	**0.176**	**J**	0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Cobalt	**2.60**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Chromium	**10.8**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Copper	**4.45**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Nickel	**3.71**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Vanadium	**23.7**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Zinc	**11.7**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 20:24	5
Lead	**3.38**		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 20:24	5

Client Sample ID: B-7 5'
Date Collected: 06/04/25 07:36
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Arsenic	**3.13**		3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Barium	**105**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Beryllium	**0.190**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Cobalt	**2.65**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Chromium	**13.8**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Copper	**10.5**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Nickel	**4.52**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Vanadium	**28.1**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Zinc	**21.7**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 20:26	5
Lead	**1.95**	**J**	2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 20:26	5

Client Sample ID: B-7 10'
Date Collected: 06/04/25 08:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Arsenic	**15.2**		3.03	1.41	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Barium	**45.9**		3.03	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Beryllium	**0.934**		0.505	0.0697	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Cadmium	ND		0.505	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Cobalt	**8.62**		1.01	0.208	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Chromium	**13.2**		1.01	0.188	mg/Kg		06/09/25 08:18	06/12/25 20:33	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-7 10'
Date Collected: 06/04/25 08:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**38.2**		2.02	0.968	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Molybdenum	**0.568**	**J**	2.02	0.520	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Nickel	**11.8**		2.02	0.366	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Antimony	ND		10.1	2.89	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Selenium	ND		3.03	1.23	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Thallium	ND		10.1	2.13	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Vanadium	**26.8**		1.01	0.170	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Zinc	**74.4**		5.05	1.17	mg/Kg		06/09/25 08:18	06/12/25 20:33	5
Lead	**67.9**		2.02	0.413	mg/Kg		06/09/25 08:18	06/12/25 20:33	5

Client Sample ID: B-15 2'
Date Collected: 06/04/25 09:18
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Arsenic	**2.82**	**J**	3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Barium	**24.1**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Beryllium	**0.470**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Cobalt	**9.61**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Chromium	**8.53**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Copper	**8.60**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Nickel	**5.16**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Vanadium	**19.2**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Zinc	**33.2**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 20:36	5
Lead	**5.75**		2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 20:36	5

Client Sample ID: B-15 5'
Date Collected: 06/04/25 09:40
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Arsenic	**3.55**		3.00	1.39	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Barium	**30.8**		3.00	0.142	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Beryllium	**0.463**	**J**	0.500	0.0690	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Cadmium	ND		0.500	0.164	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Cobalt	**3.43**		1.00	0.206	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Chromium	**7.00**		1.00	0.186	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Copper	**4.00**		2.00	0.958	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Nickel	**3.56**		2.00	0.362	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Antimony	ND	F1	10.0	2.86	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Selenium	ND		3.00	1.22	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Thallium	ND		10.0	2.11	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Vanadium	**17.5**		1.00	0.168	mg/Kg		06/09/25 08:18	06/12/25 20:14	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-15 5'
Date Collected: 06/04/25 09:40
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**23.3**		5.00	1.16	mg/Kg		06/09/25 08:18	06/12/25 20:14	5
Lead	**3.10**		2.00	0.409	mg/Kg		06/09/25 08:18	06/12/25 20:14	5

Client Sample ID: B-15 10'
Date Collected: 06/04/25 09:57
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Arsenic	**2.43**	**J**	2.99	1.38	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Barium	**43.2**		2.99	0.141	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Beryllium	**0.498**		0.498	0.0687	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Cadmium	ND		0.498	0.163	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Cobalt	**2.36**		0.995	0.205	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Chromium	**9.02**		0.995	0.185	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Copper	**4.96**		1.99	0.953	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Molybdenum	ND		1.99	0.512	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Nickel	**3.58**		1.99	0.360	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Antimony	ND		9.95	2.84	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Selenium	ND		2.99	1.22	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Thallium	ND		9.95	2.10	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Vanadium	**16.8**		0.995	0.167	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Zinc	**23.2**		4.98	1.15	mg/Kg		06/09/25 08:18	06/12/25 20:38	5
Lead	**2.48**		1.99	0.407	mg/Kg		06/09/25 08:18	06/12/25 20:38	5

Client Sample ID: B-14 2'
Date Collected: 06/04/25 11:03
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Arsenic	**3.22**		3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Barium	**51.0**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Beryllium	**0.228**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Cobalt	**3.36**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Chromium	**9.01**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Copper	**4.94**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Nickel	**4.11**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Vanadium	**20.7**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Zinc	**24.0**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 20:40	5
Lead	**4.94**		2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 20:40	5

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Job ID: 570-233471-1

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-14 5'
Date Collected: 06/04/25 11:25
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.53	0.147	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Arsenic	**2.69**	**J**	3.06	1.42	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Barium	**33.4**		3.06	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Beryllium	**0.459**	**J**	0.510	0.0704	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Cadmium	ND		0.510	0.167	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Cobalt	**7.40**		1.02	0.210	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Chromium	**8.25**		1.02	0.190	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Copper	**5.15**		2.04	0.978	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Molybdenum	ND		2.04	0.526	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Nickel	**4.01**		2.04	0.369	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Antimony	ND		10.2	2.92	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Selenium	ND		3.06	1.25	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Thallium	ND		10.2	2.15	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Vanadium	**18.5**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Zinc	**23.9**		5.10	1.18	mg/Kg		06/09/25 08:18	06/12/25 20:43	5
Lead	**3.37**		2.04	0.417	mg/Kg		06/09/25 08:18	06/12/25 20:43	5

Client Sample ID: B-14 10'
Date Collected: 06/04/25 11:44
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Arsenic	**2.90**	**J**	3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Barium	**30.8**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Beryllium	**0.440**	**J**	0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Cobalt	**3.24**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Chromium	**7.35**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Copper	**4.62**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Nickel	**3.73**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Vanadium	**16.8**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Zinc	**25.4**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 20:45	5
Lead	**3.58**		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 20:45	5

Client Sample ID: B-12 2'
Date Collected: 06/04/25 12:02
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233471-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Arsenic	**9.56**		3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Barium	**52.3**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Beryllium	**0.251**	**J**	0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Cobalt	**2.39**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Chromium	**9.72**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 20:47	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-12 2'
Date Collected: 06/04/25 12:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**8.05**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Nickel	**3.56**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Vanadium	**27.8**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Zinc	**23.7**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 20:47	5
Lead	**5.40**		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 20:47	5

Client Sample ID: B-12 5'
Date Collected: 06/04/25 12:16
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.53	0.147	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Arsenic	**16.4**		3.06	1.42	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Barium	**23.6**		3.06	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Beryllium	**0.459**	**J**	0.510	0.0704	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Cadmium	ND		0.510	0.167	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Cobalt	**3.52**		1.02	0.210	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Chromium	**8.78**		1.02	0.190	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Copper	**8.06**		2.04	0.978	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Molybdenum	ND		2.04	0.526	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Nickel	**5.05**		2.04	0.369	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Antimony	ND		10.2	2.92	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Selenium	ND		3.06	1.25	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Thallium	ND		10.2	2.15	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Vanadium	**34.2**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Zinc	**31.1**		5.10	1.18	mg/Kg		06/09/25 08:18	06/12/25 20:50	5
Lead	**6.48**		2.04	0.417	mg/Kg		06/09/25 08:18	06/12/25 20:50	5

Client Sample ID: B-12 10'
Date Collected: 06/04/25 12:37
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.48	0.142	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Arsenic	**3.44**		2.96	1.37	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Barium	**21.0**		2.96	0.140	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Beryllium	**0.456**	**J**	0.493	0.0680	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Cadmium	ND		0.493	0.162	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Cobalt	**10.2**		0.985	0.203	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Chromium	**6.70**		0.985	0.183	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Copper	**4.75**		1.97	0.944	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Molybdenum	ND		1.97	0.507	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Nickel	**4.11**		1.97	0.357	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Antimony	ND		9.85	2.81	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Selenium	ND		2.96	1.20	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Thallium	ND		9.85	2.07	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Vanadium	**17.0**		0.985	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:52	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-12 10'
Lab Sample ID: 570-233471-12
Date Collected: 06/04/25 12:37
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**26.6**		4.93	1.14	mg/Kg		06/09/25 08:18	06/12/25 20:52	5
Lead	**2.52**		1.97	0.403	mg/Kg		06/09/25 08:18	06/12/25 20:52	5

Client Sample ID: B-9 2 '
Lab Sample ID: 570-233471-13
Date Collected: 06/04/25 13:34
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Arsenic	**3.22**		3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Barium	**91.3**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Beryllium	**0.203**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Cobalt	**2.75**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Chromium	**11.2**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Copper	**6.65**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Nickel	**4.01**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Vanadium	**23.4**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Zinc	**19.5**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 20:54	5
Lead	**9.04**		2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 20:54	5

Client Sample ID: B-9 5'
Lab Sample ID: 570-233471-14
Date Collected: 06/04/25 13:53
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Arsenic	**33.3**		3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Barium	**48.2**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Beryllium	**0.691**		0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Cobalt	**6.08**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Chromium	**14.8**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Copper	**17.9**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Nickel	**7.20**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Vanadium	**35.2**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Zinc	**50.2**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 21:02	5
Lead	**11.5**		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 21:02	5

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-9 10'
Date Collected: 06/04/25 14:07
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Arsenic	**13.9**		3.00	1.39	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Barium	**40.9**		3.00	0.142	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Beryllium	**0.825**		0.500	0.0690	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Cadmium	ND		0.500	0.164	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Cobalt	**9.73**		1.00	0.206	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Chromium	**10.1**		1.00	0.186	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Copper	**9.20**		2.00	0.958	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Nickel	**7.69**		2.00	0.362	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Antimony	ND		10.0	2.86	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Selenium	ND		3.00	1.22	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Thallium	ND		10.0	2.11	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Vanadium	**21.9**		1.00	0.168	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Zinc	**46.7**		5.00	1.16	mg/Kg		06/09/25 08:18	06/12/25 21:04	5
Lead	**7.20**		2.00	0.409	mg/Kg		06/09/25 08:18	06/12/25 21:04	5

Client Sample ID: B-10 2'
Date Collected: 06/04/25 14:47
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Arsenic	**2.94**	**J**	3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Barium	**17.4**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Beryllium	**0.201**	**J**	0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Cobalt	**1.73**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Chromium	**15.7**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Copper	**4.67**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Nickel	**3.17**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Vanadium	**23.0**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Zinc	**11.0**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 21:06	5
Lead	**2.25**		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 21:06	5

Client Sample ID: B-10 5'
Date Collected: 06/04/25 15:08
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.145	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Arsenic	**1.93**	**J**	3.03	1.41	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Barium	**18.5**		3.03	0.143	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Beryllium	**0.253**	**J**	0.505	0.0697	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Cadmium	ND		0.505	0.166	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Cobalt	**3.41**		1.01	0.208	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Chromium	**9.55**		1.01	0.188	mg/Kg		06/09/25 08:18	06/12/25 21:09	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-10 5' — **Lab Sample ID: 570-233471-17**
Date Collected: 06/04/25 15:08 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**6.45**		2.02	0.968	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Molybdenum	ND		2.02	0.520	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Nickel	**4.23**		2.02	0.366	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Antimony	ND		10.1	2.89	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Selenium	ND		3.03	1.23	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Thallium	ND		10.1	2.13	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Vanadium	**20.8**		1.01	0.170	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Zinc	**29.8**		5.05	1.17	mg/Kg		06/09/25 08:18	06/12/25 21:09	5
Lead	**3.07**		2.02	0.413	mg/Kg		06/09/25 08:18	06/12/25 21:09	5

Client Sample ID: B-10 10' — **Lab Sample ID: 570-233471-18**
Date Collected: 06/04/25 15:20 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Arsenic	**2.32**	**J**	3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Barium	**16.8**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Beryllium	**0.406**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Cobalt	**4.49**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Chromium	**7.01**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Copper	**4.57**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Nickel	**3.95**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Vanadium	**16.5**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Zinc	**27.6**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 21:11	5
Lead	**3.19**		2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 21:11	5

Client Sample ID: B-6 2' — **Lab Sample ID: 570-233471-19**
Date Collected: 06/04/25 16:16 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Arsenic	**4.89**		3.05	1.41	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Barium	**48.0**		3.05	0.144	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Beryllium	**0.305**	**J**	0.508	0.0701	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Cadmium	ND		0.508	0.166	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Cobalt	**4.23**		1.02	0.209	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Chromium	**10.8**		1.02	0.189	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Copper	**5.91**		2.03	0.973	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Nickel	**5.27**		2.03	0.368	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Antimony	ND		10.2	2.90	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Selenium	ND		3.05	1.24	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Thallium	ND		10.2	2.14	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Vanadium	**23.9**		1.02	0.171	mg/Kg		06/09/25 08:18	06/12/25 21:13	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-6 2'
Date Collected: 06/04/25 16:16
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**20.5**		5.08	1.17	mg/Kg		06/09/25 08:18	06/12/25 21:13	5
Lead	**6.08**		2.03	0.415	mg/Kg		06/09/25 08:18	06/12/25 21:13	5

Client Sample ID: B-6 5'
Date Collected: 06/04/25 16:33
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Arsenic	**2.84**	**J**	3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Barium	**10.3**		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Beryllium	**0.264**	**J**	0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Cobalt	**1.55**		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Chromium	**9.57**		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Copper	**3.88**		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Nickel	**4.01**		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Vanadium	**22.1**		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Zinc	**9.94**		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 21:16	5
Lead	**1.52**	**J**	2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 21:16	5

Client Sample ID: B-6 10'
Date Collected: 06/04/25 16:44
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Arsenic	**20.2**	**F1**	3.00	1.39	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Barium	**59.5**	**F1**	3.00	0.142	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Beryllium	**0.788**		0.500	0.0690	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Cadmium	ND		0.500	0.164	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Cobalt	**6.04**		1.00	0.206	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Chromium	**17.5**		1.00	0.186	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Copper	**29.2**	**F1**	2.00	0.958	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Molybdenum	**0.638**	**J**	2.00	0.515	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Nickel	**11.0**		2.00	0.362	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Antimony	ND	F1	10.0	2.86	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Selenium	ND		3.00	1.22	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Thallium	ND		10.0	2.11	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Vanadium	**42.3**	**F1**	1.00	0.168	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Zinc	**61.1**	**F1**	5.00	1.16	mg/Kg		06/09/25 08:29	06/09/25 15:38	5
Lead	**12.0**		2.00	0.409	mg/Kg		06/09/25 08:29	06/09/25 15:38	5

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-16 2'
Date Collected: 06/04/25 13:09
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Arsenic	**4.23**		2.97	1.38	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Barium	**52.9**		2.97	0.141	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Beryllium	**0.248**	**J**	0.495	0.0683	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Cadmium	ND		0.495	0.162	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Cobalt	**2.25**		0.990	0.204	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Chromium	**8.32**		0.990	0.184	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Copper	**4.13**		1.98	0.949	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Molybdenum	ND		1.98	0.510	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Nickel	**2.76**		1.98	0.358	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Antimony	ND		9.90	2.83	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Selenium	ND		2.97	1.21	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Thallium	ND		9.90	2.09	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Vanadium	**21.4**		0.990	0.166	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Zinc	**12.1**		4.95	1.14	mg/Kg		06/10/25 06:24	06/10/25 22:45	5
Lead	**4.22**		1.98	0.405	mg/Kg		06/10/25 06:24	06/10/25 22:45	5

Client Sample ID: B-17 2'
Date Collected: 06/04/25 12:24
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Arsenic	**3.65**		3.00	1.39	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Barium	**95.6**		3.00	0.142	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Beryllium	**0.213**	**J**	0.500	0.0690	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Cadmium	ND		0.500	0.164	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Cobalt	**2.09**		1.00	0.206	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Chromium	**8.61**		1.00	0.186	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Copper	**4.43**		2.00	0.958	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Nickel	**2.79**		2.00	0.362	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Antimony	ND		10.0	2.86	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Selenium	ND		3.00	1.22	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Thallium	ND		10.0	2.11	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Vanadium	**20.9**		1.00	0.168	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Zinc	**12.8**		5.00	1.16	mg/Kg		06/10/25 06:24	06/10/25 22:48	5
Lead	**4.29**		2.00	0.409	mg/Kg		06/10/25 06:24	06/10/25 22:48	5

Client Sample ID: B-18 2'
Date Collected: 06/04/25 11:18
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-24
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Arsenic	**7.11**		2.99	1.38	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Barium	**83.1**		2.99	0.141	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Beryllium	**0.261**	**J**	0.498	0.0687	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Cadmium	ND		0.498	0.163	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Cobalt	**2.71**		0.995	0.205	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Chromium	**10.0**		0.995	0.185	mg/Kg		06/10/25 06:24	06/10/25 22:50	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-18 2'
Lab Sample ID: 570-233471-24
Date Collected: 06/04/25 11:18
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**9.83**		1.99	0.953	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Molybdenum	ND		1.99	0.512	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Nickel	**4.04**		1.99	0.360	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Antimony	ND		9.95	2.84	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Selenium	ND		2.99	1.22	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Thallium	ND		9.95	2.10	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Vanadium	**23.1**		0.995	0.167	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Zinc	**22.6**		4.98	1.15	mg/Kg		06/10/25 06:24	06/10/25 22:50	5
Lead	**6.97**		1.99	0.407	mg/Kg		06/10/25 06:24	06/10/25 22:50	5

Client Sample ID: B-19 2'
Lab Sample ID: 570-233471-25
Date Collected: 06/04/25 09:58
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.53	0.147	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Arsenic	**10.1**		3.06	1.42	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Barium	**88.2**		3.06	0.145	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Beryllium	**0.319**	**J**	0.510	0.0704	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Cadmium	ND		0.510	0.167	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Cobalt	**3.33**		1.02	0.210	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Chromium	**10.2**		1.02	0.190	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Copper	**11.4**		2.04	0.978	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Molybdenum	ND		2.04	0.526	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Nickel	**4.92**		2.04	0.369	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Antimony	ND		10.2	2.92	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Selenium	ND		3.06	1.25	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Thallium	ND		10.2	2.15	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Vanadium	**24.6**		1.02	0.171	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Zinc	**32.1**		5.10	1.18	mg/Kg		06/10/25 06:24	06/10/25 22:52	5
Lead	**9.89**		2.04	0.417	mg/Kg		06/10/25 06:24	06/10/25 22:52	5

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-7 2'
Date Collected: 06/04/25 07:20
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F2 F1	0.0833	0.0230	mg/Kg		06/11/25 12:19	06/12/25 09:53	1

Client Sample ID: B-7 5'
Date Collected: 06/04/25 07:36
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 12:19	06/12/25 10:13	1

Client Sample ID: B-7 10'
Date Collected: 06/04/25 08:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0868	0.0240	mg/Kg		06/11/25 12:19	06/12/25 10:15	1

Client Sample ID: B-15 2'
Date Collected: 06/04/25 09:18
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/11/25 12:19	06/12/25 10:17	1

Client Sample ID: B-15 5'
Date Collected: 06/04/25 09:40
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 12:19	06/12/25 10:18	1

Client Sample ID: B-15 10'
Date Collected: 06/04/25 09:57
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 10:20	1

Client Sample ID: B-14 2'
Date Collected: 06/04/25 11:03
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 10:22	1

Client Sample ID: B-14 5'
Date Collected: 06/04/25 11:25
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/11/25 12:19	06/12/25 10:24	1

Client Sample ID: B-14 10'
Date Collected: 06/04/25 11:44
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 10:26	1

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-12 2'
Date Collected: 06/04/25 12:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/11/25 12:19	06/12/25 11:08	1

Client Sample ID: B-12 5'
Date Collected: 06/04/25 12:16
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/11/25 12:19	06/12/25 11:10	1

Client Sample ID: B-12 10'
Date Collected: 06/04/25 12:37
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 12:19	06/12/25 11:12	1

Client Sample ID: B-9 2 '
Date Collected: 06/04/25 13:34
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 11:14	1

Client Sample ID: B-9 5'
Date Collected: 06/04/25 13:53
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 11:25	1

Client Sample ID: B-9 10'
Date Collected: 06/04/25 14:07
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/11/25 12:19	06/12/25 11:18	1

Client Sample ID: B-10 2'
Date Collected: 06/04/25 14:47
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/11/25 12:19	06/12/25 11:20	1

Client Sample ID: B-10 5'
Date Collected: 06/04/25 15:08
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 12:19	06/12/25 11:21	1

Client Sample ID: B-10 10'
Date Collected: 06/04/25 15:20
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/11/25 12:19	06/12/25 11:23	1

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-6 2'
Date Collected: 06/04/25 16:16
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/11/25 12:19	06/12/25 12:17	1

Client Sample ID: B-6 5'
Date Collected: 06/04/25 16:33
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/11/25 12:19	06/12/25 12:19	1

Client Sample ID: B-6 10'
Date Collected: 06/04/25 16:44
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 10:37	06/12/25 08:16	1

Client Sample ID: B-16 2'
Date Collected: 06/04/25 13:09
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/10/25 13:40	06/11/25 08:58	1

Client Sample ID: B-17 2'
Date Collected: 06/04/25 12:24
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/10/25 13:40	06/11/25 09:00	1

Client Sample ID: B-18 2'
Date Collected: 06/04/25 11:18
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-24
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/10/25 13:40	06/11/25 09:02	1

Client Sample ID: B-19 2'
Date Collected: 06/04/25 09:58
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233471-25
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/10/25 13:40	06/11/25 09:08	1

Surrogate Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTCSN1 (29-160)									
570-233471-1	B-7 2'	107									
570-233471-1 MS	B-7 2'	115									
570-233471-1 MSD	B-7 2'	109									
570-233471-2	B-7 5'	120									
570-233471-3	B-7 10'	103									
570-233471-4	B-15 2'	102									
570-233471-5	B-15 5'	94									
570-233471-6	B-15 10'	102									
570-233471-7	B-14 2'	102									
570-233471-8	B-14 5'	101									
570-233471-9	B-14 10'	99									
570-233471-10	B-12 2'	109									
570-233471-11	B-12 5'	100									
570-233471-12	B-12 10'	104									
570-233471-13	B-9 2 '	103									
570-233471-14	B-9 5'	96									
570-233471-15	B-9 10'	84									
570-233471-16	B-10 2'	83									
570-233471-17	B-10 5'	86									
570-233471-18	B-10 10'	87									
570-233471-19	B-6 2'	96									
570-233471-20	B-6 5'	89									
570-233471-21	B-6 10'	114									
570-233471-22	B-16 2'	112									
570-233471-23	B-17 2'	113									
570-233471-24	B-18 2'	112									
570-233471-25	B-19 2'	109									
570-234585-A-1-C MS	Matrix Spike	126									
570-234585-A-1-D MSD	Matrix Spike Duplicate	124									
LCS 570-584932/2-A	Lab Control Sample	111									
LCS 570-584944/2-A	Lab Control Sample	115									
LCSD 570-584932/3-A	Lab Control Sample Dup	114									
LCSD 570-584944/3-A	Lab Control Sample Dup	111									
MB 570-584932/1-A	Method Blank	109									
MB 570-584944/1-A	Method Blank	101									

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-584932/1-A
Matrix: Solid
Analysis Batch: 585007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
C6-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:07	06/16/25 23:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*29 - 160*	*06/16/25 18:07*	*06/16/25 23:37*	*1*

Lab Sample ID: LCS 570-584932/2-A
Matrix: Solid
Analysis Batch: 585007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	480.8		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*29 - 160*

Lab Sample ID: LCSD 570-584932/3-A
Matrix: Solid
Analysis Batch: 585007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584932

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	491.1		mg/Kg		123	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*114*		*29 - 160*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-233471-1 MS
Matrix: Solid
Analysis Batch: 585007

Client Sample ID: B-7 2'
Prep Type: Total/NA
Prep Batch: 584932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		396	491.8		mg/Kg		124	43 - 165

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*115*		*29 - 160*

Lab Sample ID: 570-233471-1 MSD
Matrix: Solid
Analysis Batch: 585007

Client Sample ID: B-7 2'
Prep Type: Total/NA
Prep Batch: 584932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		402	458.6		mg/Kg		114	43 - 165	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*109*		*29 - 160*

Lab Sample ID: MB 570-584944/1-A
Matrix: Solid
Analysis Batch: 585603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C6-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*29 - 160*	*06/16/25 18:23*	*06/18/25 05:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 570-584944/2-A
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	481.2		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*115*		*29 - 160*

Lab Sample ID: LCSD 570-584944/3-A
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	465.0		mg/Kg		116	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*29 - 160*

Lab Sample ID: 570-234585-A-1-C MS
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 584944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	2300	E	399	2062	E	mg/Kg					

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*126*		*29 - 160*

Lab Sample ID: 570-234585-A-1-D MSD
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 584944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2300	E	398	3460	E	mg/Kg				51	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*124*		*29 - 160*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-581310/1-A
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Arsenic	ND		3.02	1.40	mg/Kg		06/09/25 08:18	06/12/25 20:05	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 570-581310/1-A
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		3.02	0.143	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Beryllium	ND		0.503	0.0693	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Cadmium	ND		0.503	0.165	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Cobalt	ND		1.01	0.207	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Chromium	ND		1.01	0.187	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Copper	ND		2.01	0.963	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Nickel	ND		2.01	0.364	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Antimony	ND		10.1	2.87	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Selenium	ND		3.02	1.23	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Thallium	ND		10.1	2.12	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Vanadium	ND		1.01	0.169	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Zinc	ND		5.03	1.16	mg/Kg		06/09/25 08:18	06/12/25 20:05	5
Lead	ND		2.01	0.411	mg/Kg		06/09/25 08:18	06/12/25 20:05	5

Lab Sample ID: LCS 570-581310/2-A
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.1	22.31		mg/Kg		89	80 - 120
Arsenic	50.3	43.77		mg/Kg		87	80 - 120
Barium	50.3	44.85		mg/Kg		89	80 - 120
Beryllium	50.3	44.03		mg/Kg		88	80 - 120
Cadmium	50.3	44.03		mg/Kg		88	80 - 120
Cobalt	50.3	44.50		mg/Kg		89	80 - 120
Chromium	50.3	45.03		mg/Kg		90	80 - 120
Copper	50.3	45.06		mg/Kg		90	80 - 120
Molybdenum	50.3	43.67		mg/Kg		87	80 - 120
Nickel	50.3	44.71		mg/Kg		89	80 - 120
Antimony	50.3	44.65		mg/Kg		89	80 - 120
Selenium	50.3	42.88		mg/Kg		85	80 - 120
Thallium	50.3	43.27		mg/Kg		86	80 - 120
Vanadium	50.3	43.91		mg/Kg		87	80 - 120
Zinc	50.3	44.65		mg/Kg		89	80 - 120
Lead	50.3	44.89		mg/Kg		89	80 - 120

Lab Sample ID: LCSD 570-581310/3-A
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581310

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	25.1	22.96		mg/Kg		91	80 - 120	3	20
Arsenic	50.3	44.32		mg/Kg		88	80 - 120	1	20
Barium	50.3	46.26		mg/Kg		92	80 - 120	3	20
Beryllium	50.3	45.39		mg/Kg		90	80 - 120	3	20
Cadmium	50.3	45.44		mg/Kg		90	80 - 120	3	20
Cobalt	50.3	45.99		mg/Kg		92	80 - 120	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-581310/3-A
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			50.3	46.34		mg/Kg		92	80 - 120	3	20
Copper			50.3	46.09		mg/Kg		92	80 - 120	2	20
Molybdenum			50.3	45.43		mg/Kg		90	80 - 120	4	20
Nickel			50.3	46.07		mg/Kg		92	80 - 120	3	20
Antimony			50.3	46.70		mg/Kg		93	80 - 120	4	20
Selenium			50.3	42.95		mg/Kg		85	80 - 120	0	20
Thallium			50.3	44.59		mg/Kg		89	80 - 120	3	20
Vanadium			50.3	45.34		mg/Kg		90	80 - 120	3	20
Zinc			50.3	45.53		mg/Kg		91	80 - 120	2	20
Lead			50.3	46.49		mg/Kg		93	80 - 120	4	20

Lab Sample ID: 570-233471-5 MS
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: B-15 5'
Prep Type: Total/NA
Prep Batch: 581310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		25.0	23.84		mg/Kg		95	75 - 125
Arsenic	3.55		50.0	49.48		mg/Kg		92	75 - 125
Barium	30.8		50.0	79.66		mg/Kg		98	75 - 125
Beryllium	0.463	J	50.0	48.71		mg/Kg		97	75 - 125
Cadmium	ND		50.0	46.38		mg/Kg		93	75 - 125
Cobalt	3.43		50.0	49.90		mg/Kg		93	75 - 125
Chromium	7.00		50.0	57.13		mg/Kg		100	75 - 125
Copper	4.00		50.0	53.76		mg/Kg		100	75 - 125
Molybdenum	ND		50.0	46.78		mg/Kg		94	75 - 125
Nickel	3.56		50.0	50.46		mg/Kg		94	75 - 125
Antimony	ND	F1	50.0	28.69	F1	mg/Kg		57	75 - 125
Selenium	ND		50.0	45.94		mg/Kg		92	75 - 125
Thallium	ND		50.0	45.80		mg/Kg		92	75 - 125
Vanadium	17.5		50.0	68.50		mg/Kg		102	75 - 125
Zinc	23.3		50.0	71.04		mg/Kg		95	75 - 125
Lead	3.10		50.0	50.91		mg/Kg		96	75 - 125

Lab Sample ID: 570-233471-5 MSD
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: B-15 5'
Prep Type: Total/NA
Prep Batch: 581310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		25.0	22.39		mg/Kg		90	75 - 125	6	20
Arsenic	3.55		50.0	46.40		mg/Kg		86	75 - 125	6	20
Barium	30.8		50.0	76.95		mg/Kg		92	75 - 125	3	20
Beryllium	0.463	J	50.0	45.58		mg/Kg		90	75 - 125	7	20
Cadmium	ND		50.0	43.51		mg/Kg		87	75 - 125	6	20
Cobalt	3.43		50.0	47.44		mg/Kg		88	75 - 125	5	20
Chromium	7.00		50.0	53.59		mg/Kg		93	75 - 125	6	20
Copper	4.00		50.0	50.29		mg/Kg		93	75 - 125	7	20
Molybdenum	ND		50.0	44.21		mg/Kg		88	75 - 125	6	20
Nickel	3.56		50.0	47.33		mg/Kg		88	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-233471-5 MSD
Matrix: Solid
Analysis Batch: 583481

Client Sample ID: B-15 5'
Prep Type: Total/NA
Prep Batch: 581310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	50.0	27.45	F1	mg/Kg		55	75 - 125	4	20
Selenium	ND		50.0	42.41		mg/Kg		85	75 - 125	8	20
Thallium	ND		50.0	43.34		mg/Kg		87	75 - 125	6	20
Vanadium	17.5		50.0	64.36		mg/Kg		94	75 - 125	6	20
Zinc	23.3		50.0	66.85		mg/Kg		87	75 - 125	6	20
Lead	3.10		50.0	47.33		mg/Kg		88	75 - 125	7	20

Lab Sample ID: MB 570-581312/1-A
Matrix: Solid
Analysis Batch: 581621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.3500	J	1.50	0.144	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Arsenic	ND		3.00	1.39	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Barium	ND		3.00	0.142	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Beryllium	ND		0.500	0.0690	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Cadmium	ND		0.500	0.164	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Cobalt	ND		1.00	0.206	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Chromium	ND		1.00	0.186	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Copper	ND		2.00	0.958	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Nickel	ND		2.00	0.362	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Antimony	ND		10.0	2.86	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Selenium	ND		3.00	1.22	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Thallium	ND		10.0	2.11	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Vanadium	ND		1.00	0.168	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Zinc	ND		5.00	1.16	mg/Kg		06/09/25 08:29	06/09/25 15:29	5
Lead	ND		2.00	0.409	mg/Kg		06/09/25 08:29	06/09/25 15:29	5

Lab Sample ID: LCS 570-581312/2-A
Matrix: Solid
Analysis Batch: 581621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.0	21.50		mg/Kg		86	80 - 120
Arsenic	50.0	41.24		mg/Kg		82	80 - 120
Barium	50.0	42.06		mg/Kg		84	80 - 120
Beryllium	50.0	41.71		mg/Kg		83	80 - 120
Cadmium	50.0	41.40		mg/Kg		83	80 - 120
Cobalt	50.0	41.69		mg/Kg		83	80 - 120
Chromium	50.0	42.41		mg/Kg		85	80 - 120
Copper	50.0	42.81		mg/Kg		86	80 - 120
Molybdenum	50.0	43.88		mg/Kg		88	80 - 120
Nickel	50.0	42.01		mg/Kg		84	80 - 120
Antimony	50.0	42.63		mg/Kg		85	80 - 120
Selenium	50.0	40.43		mg/Kg		81	80 - 120
Thallium	50.0	40.00		mg/Kg		80	80 - 120
Vanadium	50.0	41.39		mg/Kg		83	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-581312/2-A
Matrix: Solid
Analysis Batch: 581621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581312

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			50.0	42.09		mg/Kg		84	80 - 120		
Lead			50.0	42.05		mg/Kg		84	80 - 120		

Lab Sample ID: LCSD 570-581312/3-A
Matrix: Solid
Analysis Batch: 581621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581312

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver			25.0	21.64		mg/Kg		87	80 - 120	1	20
Arsenic			50.0	42.31		mg/Kg		85	80 - 120	3	20
Barium			50.0	42.98		mg/Kg		86	80 - 120	2	20
Beryllium			50.0	42.61		mg/Kg		85	80 - 120	2	20
Cadmium			50.0	42.59		mg/Kg		85	80 - 120	3	20
Cobalt			50.0	43.24		mg/Kg		86	80 - 120	4	20
Chromium			50.0	43.31		mg/Kg		87	80 - 120	2	20
Copper			50.0	43.69		mg/Kg		87	80 - 120	2	20
Molybdenum			50.0	45.39		mg/Kg		91	80 - 120	3	20
Nickel			50.0	43.35		mg/Kg		87	80 - 120	3	20
Antimony			50.0	43.99		mg/Kg		88	80 - 120	3	20
Selenium			50.0	40.95		mg/Kg		82	80 - 120	1	20
Thallium			50.0	40.70		mg/Kg		81	80 - 120	2	20
Vanadium			50.0	42.28		mg/Kg		85	80 - 120	2	20
Zinc			50.0	42.84		mg/Kg		86	80 - 120	2	20
Lead			50.0	42.78		mg/Kg		86	80 - 120	2	20

Lab Sample ID: 570-233471-21 MS
Matrix: Solid
Analysis Batch: 581621

Client Sample ID: B-6 10'
Prep Type: Total/NA
Prep Batch: 581312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver	ND		25.0	20.45		mg/Kg		82	75 - 125		
Arsenic	20.2	F1	50.0	52.58	F1	mg/Kg		65	75 - 125		
Barium	59.5	F1	50.0	83.96	F1	mg/Kg		49	75 - 125		
Beryllium	0.788		50.0	42.36		mg/Kg		83	75 - 125		
Cadmium	ND		50.0	40.18		mg/Kg		80	75 - 125		
Cobalt	6.04		50.0	45.06		mg/Kg		78	75 - 125		
Chromium	17.5		50.0	58.81		mg/Kg		83	75 - 125		
Copper	29.2	F1	50.0	63.04	F1	mg/Kg		68	75 - 125		
Molybdenum	0.638	J	50.0	41.53		mg/Kg		82	75 - 125		
Nickel	11.0		50.0	48.69		mg/Kg		75	75 - 125		
Antimony	ND	F1	50.0	18.81	F1	mg/Kg		38	75 - 125		
Selenium	ND		50.0	38.49		mg/Kg		77	75 - 125		
Thallium	ND		50.0	37.56		mg/Kg		75	75 - 125		
Vanadium	42.3	F1	50.0	76.61	F1	mg/Kg		69	75 - 125		
Zinc	61.1	F1	50.0	87.23	F1	mg/Kg		52	75 - 125		
Lead	12.0		50.0	49.79		mg/Kg		76	75 - 125		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-233471-21 MSD
Client Sample ID: B-6 10'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 581621
Prep Batch: 581312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		25.0	21.73		mg/Kg		87	75 - 125	6	20
Arsenic	20.2	F1	50.0	51.89	F1	mg/Kg		63	75 - 125	1	20
Barium	59.5	F1	50.0	102.9		mg/Kg		87	75 - 125	20	20
Beryllium	0.788		50.0	44.70		mg/Kg		88	75 - 125	5	20
Cadmium	ND		50.0	42.69		mg/Kg		85	75 - 125	6	20
Cobalt	6.04		50.0	47.63		mg/Kg		83	75 - 125	6	20
Chromium	17.5		50.0	63.19		mg/Kg		91	75 - 125	7	20
Copper	29.2	F1	50.0	67.46		mg/Kg		77	75 - 125	7	20
Molybdenum	0.638	J	50.0	43.60		mg/Kg		86	75 - 125	5	20
Nickel	11.0		50.0	52.13		mg/Kg		82	75 - 125	7	20
Antimony	ND	F1	50.0	19.23	F1	mg/Kg		38	75 - 125	2	20
Selenium	ND		50.0	39.99		mg/Kg		80	75 - 125	4	20
Thallium	ND		50.0	40.19		mg/Kg		80	75 - 125	7	20
Vanadium	42.3	F1	50.0	79.15	F1	mg/Kg		74	75 - 125	3	20
Zinc	61.1	F1	50.0	97.81	F1	mg/Kg		74	75 - 125	11	20
Lead	12.0		50.0	52.90		mg/Kg		82	75 - 125	6	20

Lab Sample ID: MB 570-581810/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 582224
Prep Batch: 581810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Arsenic	ND		3.00	1.39	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Barium	ND		3.00	0.142	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Beryllium	ND		0.500	0.0690	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Cadmium	ND		0.500	0.164	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Cobalt	ND		1.00	0.206	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Chromium	ND		1.00	0.186	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Copper	ND		2.00	0.958	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Molybdenum	ND		2.00	0.515	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Nickel	ND		2.00	0.362	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Antimony	ND		10.0	2.86	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Selenium	ND		3.00	1.22	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Thallium	ND		10.0	2.11	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Vanadium	ND		1.00	0.168	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Zinc	ND		5.00	1.16	mg/Kg		06/10/25 06:24	06/10/25 16:56	5
Lead	ND		2.00	0.409	mg/Kg		06/10/25 06:24	06/10/25 16:56	5

Lab Sample ID: LCS 570-581810/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 582224
Prep Batch: 581810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.0	22.26		mg/Kg		89	80 - 120
Arsenic	50.0	44.18		mg/Kg		88	80 - 120
Barium	50.0	45.05		mg/Kg		90	80 - 120
Beryllium	50.0	44.06		mg/Kg		88	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-581810/2-A
Matrix: Solid
Analysis Batch: 582224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	43.71		mg/Kg		87	80 - 120
Cobalt	50.0	44.13		mg/Kg		88	80 - 120
Chromium	50.0	45.38		mg/Kg		91	80 - 120
Copper	50.0	44.96		mg/Kg		90	80 - 120
Molybdenum	50.0	44.89		mg/Kg		90	80 - 120
Nickel	50.0	44.89		mg/Kg		90	80 - 120
Antimony	50.0	45.41		mg/Kg		91	80 - 120
Selenium	50.0	42.06		mg/Kg		84	80 - 120
Thallium	50.0	43.79		mg/Kg		88	80 - 120
Vanadium	50.0	44.16		mg/Kg		88	80 - 120
Zinc	50.0	44.54		mg/Kg		89	80 - 120
Lead	50.0	45.03		mg/Kg		90	80 - 120

Lab Sample ID: LCSD 570-581810/3-A
Matrix: Solid
Analysis Batch: 582224

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581810

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	25.0	22.65		mg/Kg		91	80 - 120	2	20
Arsenic	50.0	45.15		mg/Kg		90	80 - 120	2	20
Barium	50.0	45.84		mg/Kg		92	80 - 120	2	20
Beryllium	50.0	45.00		mg/Kg		90	80 - 120	2	20
Cadmium	50.0	44.84		mg/Kg		90	80 - 120	3	20
Cobalt	50.0	45.30		mg/Kg		91	80 - 120	3	20
Chromium	50.0	46.09		mg/Kg		92	80 - 120	2	20
Copper	50.0	45.69		mg/Kg		91	80 - 120	2	20
Molybdenum	50.0	45.25		mg/Kg		91	80 - 120	1	20
Nickel	50.0	45.94		mg/Kg		92	80 - 120	2	20
Antimony	50.0	45.69		mg/Kg		91	80 - 120	1	20
Selenium	50.0	43.33		mg/Kg		87	80 - 120	3	20
Thallium	50.0	44.95		mg/Kg		90	80 - 120	3	20
Vanadium	50.0	45.11		mg/Kg		90	80 - 120	2	20
Zinc	50.0	45.30		mg/Kg		91	80 - 120	2	20
Lead	50.0	45.80		mg/Kg		92	80 - 120	2	20

Lab Sample ID: 570-233815-A-1-B MS
Matrix: Solid
Analysis Batch: 582224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	F1	25.1	19.92		mg/Kg		79	75 - 125
Arsenic	1.71	J F1	50.3	38.76	F1	mg/Kg		74	75 - 125
Barium	236	F2	50.3	283.3	4	mg/Kg		93	75 - 125
Beryllium	1.28		50.3	42.06		mg/Kg		81	75 - 125
Cadmium	ND	F1	50.3	38.24		mg/Kg		76	75 - 125
Cobalt	3.98	F1	50.3	43.48		mg/Kg		79	75 - 125
Chromium	6.92		50.3	49.32		mg/Kg		84	75 - 125
Copper	15.9	F1	50.3	57.96		mg/Kg		84	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-233815-A-1-B MS
Matrix: Solid
Analysis Batch: 582224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.590	J F1	50.3	32.86	F1	mg/Kg		64	75 - 125
Nickel	7.31	F1	50.3	46.67		mg/Kg		78	75 - 125
Antimony	ND	F1	50.3	17.55	F1	mg/Kg		35	75 - 125
Selenium	ND	F1	50.3	35.20	F1	mg/Kg		70	75 - 125
Thallium	ND	F1	50.3	26.03	F1	mg/Kg		52	75 - 125
Vanadium	24.6		50.3	70.57		mg/Kg		91	75 - 125
Zinc	12.1	F1	50.3	49.99		mg/Kg		75	75 - 125
Lead	ND	F1	50.3	39.56		mg/Kg		79	75 - 125

Lab Sample ID: 570-233815-A-1-C MSD
Matrix: Solid
Analysis Batch: 582224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 581810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND	F1	25.1	18.42	F1	mg/Kg		73	75 - 125	8	20
Arsenic	1.71	J F1	50.3	35.72	F1	mg/Kg		68	75 - 125	8	20
Barium	236	F2	50.3	228.8	4 F2	mg/Kg		-15	75 - 125	21	20
Beryllium	1.28		50.3	39.33		mg/Kg		76	75 - 125	7	20
Cadmium	ND	F1	50.3	35.64	F1	mg/Kg		71	75 - 125	7	20
Cobalt	3.98	F1	50.3	40.09	F1	mg/Kg		72	75 - 125	8	20
Chromium	6.92		50.3	46.53		mg/Kg		79	75 - 125	6	20
Copper	15.9	F1	50.3	52.93	F1	mg/Kg		74	75 - 125	9	20
Molybdenum	0.590	J F1	50.3	29.84	F1	mg/Kg		58	75 - 125	10	20
Nickel	7.31	F1	50.3	44.23	F1	mg/Kg		73	75 - 125	5	20
Antimony	ND	F1	50.3	15.20	F1	mg/Kg		30	75 - 125	14	20
Selenium	ND	F1	50.3	33.34	F1	mg/Kg		66	75 - 125	5	20
Thallium	ND	F1	50.3	24.12	F1	mg/Kg		48	75 - 125	8	20
Vanadium	24.6		50.3	68.14		mg/Kg		87	75 - 125	3	20
Zinc	12.1	F1	50.3	44.62	F1	mg/Kg		65	75 - 125	11	20
Lead	ND	F1	50.3	36.76	F1	mg/Kg		73	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-582070/1-A
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/10/25 13:40	06/11/25 08:18	1

Lab Sample ID: LCS 570-582070/2-A
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.417	0.4269		mg/Kg		102	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-582070/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582554 — **Prep Batch: 582070**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.400	0.4192		mg/Kg		105	80 - 120	2	20

Lab Sample ID: 570-233472-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582554 — **Prep Batch: 582070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.408	0.4205		mg/Kg		103	75 - 125

Lab Sample ID: 570-233472-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582554 — **Prep Batch: 582070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.417	0.4586		mg/Kg		110	75 - 125	9	20

Lab Sample ID: MB 570-582566/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582566**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/11/25 10:37	06/12/25 07:21	1

Lab Sample ID: LCS 570-582566/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582566**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.377	0.3294		mg/Kg		87	80 - 120

Lab Sample ID: LCSD 570-582566/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582566**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.377	0.3165		mg/Kg		84	80 - 120	4	20

Lab Sample ID: 570-233862-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582566**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.189	F1	0.400	0.3969	F1	mg/Kg		52	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 570-233862-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582566**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.189	F1	0.392	0.4519	F1	mg/Kg		67	75 - 125	13	20

Lab Sample ID: MB 570-582617/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582617**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/11/25 12:19	06/12/25 09:47	1

Lab Sample ID: LCS 570-582617/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582617**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.426	0.3561		mg/Kg		84	80 - 120

Lab Sample ID: LCSD 570-582617/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582617**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.408	0.3623		mg/Kg		89	80 - 120	2	20

Lab Sample ID: 570-233471-1 MS — **Client Sample ID: B-7 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	F2 F1	0.400	0.2671	F1	mg/Kg		67	75 - 125

Lab Sample ID: 570-233471-1 MSD — **Client Sample ID: B-7 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 583151 — **Prep Batch: 582617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F2 F1	0.426	0.3459	F2	mg/Kg		81	75 - 125	26	20

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

GC Semi VOA

Prep Batch: 584932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	3550C	
570-233471-2	B-7 5'	Total/NA	Solid	3550C	
570-233471-3	B-7 10'	Total/NA	Solid	3550C	
570-233471-4	B-15 2'	Total/NA	Solid	3550C	
570-233471-5	B-15 5'	Total/NA	Solid	3550C	
570-233471-6	B-15 10'	Total/NA	Solid	3550C	
570-233471-7	B-14 2'	Total/NA	Solid	3550C	
570-233471-8	B-14 5'	Total/NA	Solid	3550C	
570-233471-9	B-14 10'	Total/NA	Solid	3550C	
570-233471-10	B-12 2'	Total/NA	Solid	3550C	
570-233471-11	B-12 5'	Total/NA	Solid	3550C	
570-233471-12	B-12 10'	Total/NA	Solid	3550C	
570-233471-13	B-9 2 '	Total/NA	Solid	3550C	
570-233471-14	B-9 5'	Total/NA	Solid	3550C	
570-233471-15	B-9 10'	Total/NA	Solid	3550C	
570-233471-16	B-10 2'	Total/NA	Solid	3550C	
570-233471-17	B-10 5'	Total/NA	Solid	3550C	
570-233471-18	B-10 10'	Total/NA	Solid	3550C	
570-233471-19	B-6 2'	Total/NA	Solid	3550C	
570-233471-20	B-6 5'	Total/NA	Solid	3550C	
MB 570-584932/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-584932/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-584932/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-233471-1 MS	B-7 2'	Total/NA	Solid	3550C	
570-233471-1 MSD	B-7 2'	Total/NA	Solid	3550C	

Prep Batch: 584944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-21	B-6 10'	Total/NA	Solid	3550C	
570-233471-22	B-16 2'	Total/NA	Solid	3550C	
570-233471-23	B-17 2'	Total/NA	Solid	3550C	
570-233471-24	B-18 2'	Total/NA	Solid	3550C	
570-233471-25	B-19 2'	Total/NA	Solid	3550C	
MB 570-584944/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-584944/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-584944/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-234585-A-1-C MS	Matrix Spike	Total/NA	Solid	3550C	
570-234585-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 585002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-21	B-6 10'	Total/NA	Solid	8015B	584944
570-233471-22	B-16 2'	Total/NA	Solid	8015B	584944
570-233471-23	B-17 2'	Total/NA	Solid	8015B	584944
570-233471-24	B-18 2'	Total/NA	Solid	8015B	584944
570-233471-25	B-19 2'	Total/NA	Solid	8015B	584944
LCS 570-584944/2-A	Lab Control Sample	Total/NA	Solid	8015B	584944
LCSD 570-584944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	584944
570-234585-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B	584944
570-234585-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	584944

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Analysis Batch: 585007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	8015B	584932
570-233471-2	B-7 5'	Total/NA	Solid	8015B	584932
570-233471-3	B-7 10'	Total/NA	Solid	8015B	584932
570-233471-4	B-15 2'	Total/NA	Solid	8015B	584932
570-233471-5	B-15 5'	Total/NA	Solid	8015B	584932
570-233471-6	B-15 10'	Total/NA	Solid	8015B	584932
570-233471-7	B-14 2'	Total/NA	Solid	8015B	584932
570-233471-8	B-14 5'	Total/NA	Solid	8015B	584932
570-233471-9	B-14 10'	Total/NA	Solid	8015B	584932
570-233471-10	B-12 2'	Total/NA	Solid	8015B	584932
570-233471-11	B-12 5'	Total/NA	Solid	8015B	584932
570-233471-12	B-12 10'	Total/NA	Solid	8015B	584932
570-233471-13	B-9 2 '	Total/NA	Solid	8015B	584932
570-233471-14	B-9 5'	Total/NA	Solid	8015B	584932
570-233471-15	B-9 10'	Total/NA	Solid	8015B	584932
570-233471-16	B-10 2'	Total/NA	Solid	8015B	584932
570-233471-17	B-10 5'	Total/NA	Solid	8015B	584932
570-233471-18	B-10 10'	Total/NA	Solid	8015B	584932
570-233471-19	B-6 2'	Total/NA	Solid	8015B	584932
570-233471-20	B-6 5'	Total/NA	Solid	8015B	584932
MB 570-584932/1-A	Method Blank	Total/NA	Solid	8015B	584932
LCS 570-584932/2-A	Lab Control Sample	Total/NA	Solid	8015B	584932
LCSD 570-584932/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	584932
570-233471-1 MS	B-7 2'	Total/NA	Solid	8015B	584932
570-233471-1 MSD	B-7 2'	Total/NA	Solid	8015B	584932

Analysis Batch: 585603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-584944/1-A	Method Blank	Total/NA	Solid	8015B	584944

Metals

Prep Batch: 581310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	3050B	
570-233471-2	B-7 5'	Total/NA	Solid	3050B	
570-233471-3	B-7 10'	Total/NA	Solid	3050B	
570-233471-4	B-15 2'	Total/NA	Solid	3050B	
570-233471-5	B-15 5'	Total/NA	Solid	3050B	
570-233471-6	B-15 10'	Total/NA	Solid	3050B	
570-233471-7	B-14 2'	Total/NA	Solid	3050B	
570-233471-8	B-14 5'	Total/NA	Solid	3050B	
570-233471-9	B-14 10'	Total/NA	Solid	3050B	
570-233471-10	B-12 2'	Total/NA	Solid	3050B	
570-233471-11	B-12 5'	Total/NA	Solid	3050B	
570-233471-12	B-12 10'	Total/NA	Solid	3050B	
570-233471-13	B-9 2 '	Total/NA	Solid	3050B	
570-233471-14	B-9 5'	Total/NA	Solid	3050B	
570-233471-15	B-9 10'	Total/NA	Solid	3050B	
570-233471-16	B-10 2'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 581310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-17	B-10 5'	Total/NA	Solid	3050B	
570-233471-18	B-10 10'	Total/NA	Solid	3050B	
570-233471-19	B-6 2'	Total/NA	Solid	3050B	
570-233471-20	B-6 5'	Total/NA	Solid	3050B	
MB 570-581310/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-581310/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-581310/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-233471-5 MS	B-15 5'	Total/NA	Solid	3050B	
570-233471-5 MSD	B-15 5'	Total/NA	Solid	3050B	

Prep Batch: 581312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-21	B-6 10'	Total/NA	Solid	3050B	
MB 570-581312/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-581312/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-581312/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-233471-21 MS	B-6 10'	Total/NA	Solid	3050B	
570-233471-21 MSD	B-6 10'	Total/NA	Solid	3050B	

Analysis Batch: 581621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-21	B-6 10'	Total/NA	Solid	6010B	581312
MB 570-581312/1-A	Method Blank	Total/NA	Solid	6010B	581312
LCS 570-581312/2-A	Lab Control Sample	Total/NA	Solid	6010B	581312
LCSD 570-581312/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	581312
570-233471-21 MS	B-6 10'	Total/NA	Solid	6010B	581312
570-233471-21 MSD	B-6 10'	Total/NA	Solid	6010B	581312

Prep Batch: 581810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-22	B-16 2'	Total/NA	Solid	3050B	
570-233471-23	B-17 2'	Total/NA	Solid	3050B	
570-233471-24	B-18 2'	Total/NA	Solid	3050B	
570-233471-25	B-19 2'	Total/NA	Solid	3050B	
MB 570-581810/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-581810/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-581810/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-233815-A-1-B MS	Matrix Spike	Total/NA	Solid	3050B	
570-233815-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 582070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-22	B-16 2'	Total/NA	Solid	7471A	
570-233471-23	B-17 2'	Total/NA	Solid	7471A	
570-233471-24	B-18 2'	Total/NA	Solid	7471A	
570-233471-25	B-19 2'	Total/NA	Solid	7471A	
MB 570-582070/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-582070/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-582070/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-233472-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 582070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 582224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581810/1-A	Method Blank	Total/NA	Solid	6010B	581810
LCS 570-581810/2-A	Lab Control Sample	Total/NA	Solid	6010B	581810
LCSD 570-581810/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	581810
570-233815-A-1-B MS	Matrix Spike	Total/NA	Solid	6010B	581810
570-233815-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	581810

Analysis Batch: 582422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-22	B-16 2'	Total/NA	Solid	6010B	581810
570-233471-23	B-17 2'	Total/NA	Solid	6010B	581810
570-233471-24	B-18 2'	Total/NA	Solid	6010B	581810
570-233471-25	B-19 2'	Total/NA	Solid	6010B	581810

Analysis Batch: 582554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-22	B-16 2'	Total/NA	Solid	7471A	582070
570-233471-23	B-17 2'	Total/NA	Solid	7471A	582070
570-233471-24	B-18 2'	Total/NA	Solid	7471A	582070
570-233471-25	B-19 2'	Total/NA	Solid	7471A	582070
MB 570-582070/1-A	Method Blank	Total/NA	Solid	7471A	582070
LCS 570-582070/2-A	Lab Control Sample	Total/NA	Solid	7471A	582070
LCSD 570-582070/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	582070
570-233472-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	582070
570-233472-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	582070

Prep Batch: 582566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-21	B-6 10'	Total/NA	Solid	7471A	
MB 570-582566/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-582566/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-582566/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-233862-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	
570-233862-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 582617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	7471A	
570-233471-2	B-7 5'	Total/NA	Solid	7471A	
570-233471-3	B-7 10'	Total/NA	Solid	7471A	
570-233471-4	B-15 2'	Total/NA	Solid	7471A	
570-233471-5	B-15 5'	Total/NA	Solid	7471A	
570-233471-6	B-15 10'	Total/NA	Solid	7471A	
570-233471-7	B-14 2'	Total/NA	Solid	7471A	
570-233471-8	B-14 5'	Total/NA	Solid	7471A	
570-233471-9	B-14 10'	Total/NA	Solid	7471A	
570-233471-10	B-12 2'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 582617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-11	B-12 5'	Total/NA	Solid	7471A	
570-233471-12	B-12 10'	Total/NA	Solid	7471A	
570-233471-13	B-9 2 '	Total/NA	Solid	7471A	
570-233471-14	B-9 5'	Total/NA	Solid	7471A	
570-233471-15	B-9 10'	Total/NA	Solid	7471A	
570-233471-16	B-10 2'	Total/NA	Solid	7471A	
570-233471-17	B-10 5'	Total/NA	Solid	7471A	
570-233471-18	B-10 10'	Total/NA	Solid	7471A	
570-233471-19	B-6 2'	Total/NA	Solid	7471A	
570-233471-20	B-6 5'	Total/NA	Solid	7471A	
MB 570-582617/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-582617/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-582617/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-233471-1 MS	B-7 2'	Total/NA	Solid	7471A	
570-233471-1 MSD	B-7 2'	Total/NA	Solid	7471A	

Analysis Batch: 583151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	7471A	582617
570-233471-2	B-7 5'	Total/NA	Solid	7471A	582617
570-233471-3	B-7 10'	Total/NA	Solid	7471A	582617
570-233471-4	B-15 2'	Total/NA	Solid	7471A	582617
570-233471-5	B-15 5'	Total/NA	Solid	7471A	582617
570-233471-6	B-15 10'	Total/NA	Solid	7471A	582617
570-233471-7	B-14 2'	Total/NA	Solid	7471A	582617
570-233471-8	B-14 5'	Total/NA	Solid	7471A	582617
570-233471-9	B-14 10'	Total/NA	Solid	7471A	582617
570-233471-10	B-12 2'	Total/NA	Solid	7471A	582617
570-233471-11	B-12 5'	Total/NA	Solid	7471A	582617
570-233471-12	B-12 10'	Total/NA	Solid	7471A	582617
570-233471-13	B-9 2 '	Total/NA	Solid	7471A	582617
570-233471-14	B-9 5'	Total/NA	Solid	7471A	582617
570-233471-15	B-9 10'	Total/NA	Solid	7471A	582617
570-233471-16	B-10 2'	Total/NA	Solid	7471A	582617
570-233471-17	B-10 5'	Total/NA	Solid	7471A	582617
570-233471-18	B-10 10'	Total/NA	Solid	7471A	582617
570-233471-19	B-6 2'	Total/NA	Solid	7471A	582617
570-233471-20	B-6 5'	Total/NA	Solid	7471A	582617
570-233471-21	B-6 10'	Total/NA	Solid	7471A	582566
MB 570-582566/1-A	Method Blank	Total/NA	Solid	7471A	582566
MB 570-582617/1-A	Method Blank	Total/NA	Solid	7471A	582617
LCS 570-582566/2-A	Lab Control Sample	Total/NA	Solid	7471A	582566
LCS 570-582617/2-A	Lab Control Sample	Total/NA	Solid	7471A	582617
LCSD 570-582566/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	582566
LCSD 570-582617/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	582617
570-233471-1 MS	B-7 2'	Total/NA	Solid	7471A	582617
570-233471-1 MSD	B-7 2'	Total/NA	Solid	7471A	582617
570-233862-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	582566
570-233862-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	582566

QC Association Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Metals

Analysis Batch: 583481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-1	B-7 2'	Total/NA	Solid	6010B	581310
570-233471-2	B-7 5'	Total/NA	Solid	6010B	581310
570-233471-5	B-15 5'	Total/NA	Solid	6010B	581310
MB 570-581310/1-A	Method Blank	Total/NA	Solid	6010B	581310
LCS 570-581310/2-A	Lab Control Sample	Total/NA	Solid	6010B	581310
LCSD 570-581310/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	581310
570-233471-5 MS	B-15 5'	Total/NA	Solid	6010B	581310
570-233471-5 MSD	B-15 5'	Total/NA	Solid	6010B	581310

Analysis Batch: 583613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-3	B-7 10'	Total/NA	Solid	6010B	581310
570-233471-4	B-15 2'	Total/NA	Solid	6010B	581310
570-233471-6	B-15 10'	Total/NA	Solid	6010B	581310
570-233471-7	B-14 2'	Total/NA	Solid	6010B	581310
570-233471-8	B-14 5'	Total/NA	Solid	6010B	581310
570-233471-9	B-14 10'	Total/NA	Solid	6010B	581310
570-233471-10	B-12 2'	Total/NA	Solid	6010B	581310
570-233471-11	B-12 5'	Total/NA	Solid	6010B	581310
570-233471-12	B-12 10'	Total/NA	Solid	6010B	581310
570-233471-13	B-9 2 '	Total/NA	Solid	6010B	581310
570-233471-14	B-9 5'	Total/NA	Solid	6010B	581310
570-233471-15	B-9 10'	Total/NA	Solid	6010B	581310
570-233471-16	B-10 2'	Total/NA	Solid	6010B	581310
570-233471-17	B-10 5'	Total/NA	Solid	6010B	581310
570-233471-18	B-10 10'	Total/NA	Solid	6010B	581310
570-233471-19	B-6 2'	Total/NA	Solid	6010B	581310
570-233471-20	B-6 5'	Total/NA	Solid	6010B	581310

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-7 2'
Lab Sample ID: 570-233471-1
Date Collected: 06/04/25 07:20
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.96 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 01:26	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583481	06/12/25 20:24	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.50 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 09:53	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-7 5'
Lab Sample ID: 570-233471-2
Date Collected: 06/04/25 07:36
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.04 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 01:48	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583481	06/12/25 20:26	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:13	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-7 10'
Lab Sample ID: 570-233471-3
Date Collected: 06/04/25 08:02
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 02:10	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.98 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:33	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.48 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:15	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-15 2'
Lab Sample ID: 570-233471-4
Date Collected: 06/04/25 09:18
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.93 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 02:32	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:36	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.47 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:17	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-15 5'
Lab Sample ID: 570-233471-5
Date Collected: 06/04/25 09:40
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.07 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 02:54	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			2.00 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583481	06/12/25 20:14	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:18	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-15 10'
Lab Sample ID: 570-233471-6
Date Collected: 06/04/25 09:57
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.99 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 03:16	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			2.01 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:38	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:20	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-14 2'
Lab Sample ID: 570-233471-7
Date Collected: 06/04/25 11:03
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.93 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 03:38	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:40	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:22	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-14 5'
Lab Sample ID: 570-233471-8
Date Collected: 06/04/25 11:25
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.12 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 04:00	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.96 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:43	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.47 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:24	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-14 10'
Lab Sample ID: 570-233471-9
Date Collected: 06/04/25 11:44
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.08 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 04:21	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:45	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 10:26	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-12 2'
Lab Sample ID: 570-233471-10
Date Collected: 06/04/25 12:02
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.97 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 04:43	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:47	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.52 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:08	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-12 5'
Lab Sample ID: 570-233471-11
Date Collected: 06/04/25 12:16
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.18 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 05:05	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.96 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:50	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.52 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:10	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-12 10'
Lab Sample ID: 570-233471-12
Date Collected: 06/04/25 12:37
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.04 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 05:27	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			2.03 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:52	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:12	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-9 2 '
Lab Sample ID: 570-233471-13
Date Collected: 06/04/25 13:34
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.05 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 05:49	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 20:54	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:14	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-9 5'
Lab Sample ID: 570-233471-14
Date Collected: 06/04/25 13:53
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.95 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 06:10	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:02	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:25	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-9 10'
Lab Sample ID: 570-233471-15
Date Collected: 06/04/25 14:07
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.97 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 06:32	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			2.00 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:04	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.51 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:18	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-10 2'
Lab Sample ID: 570-233471-16
Date Collected: 06/04/25 14:47
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 07:16	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:06	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.52 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:20	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-10 5'
Lab Sample ID: 570-233471-17
Date Collected: 06/04/25 15:08
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.18 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 07:39	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.98 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:09	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:21	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-10 10'
Lab Sample ID: 570-233471-18
Date Collected: 06/04/25 15:20
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.10 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 08:02	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:11	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.51 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 11:23	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-6 2'
Lab Sample ID: 570-233471-19
Date Collected: 06/04/25 16:16
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.01 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 08:25	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.97 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:13	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.52 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 12:17	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-6 5'
Lab Sample ID: 570-233471-20
Date Collected: 06/04/25 16:33
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.06 g	10 mL	584932	06/16/25 18:07	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585007	06/17/25 08:47	E5RH	EET CAL 4
	Instrument ID: GC47B									
Total/NA	Prep	3050B			1.99 g	50 mL	581310	06/09/25 08:18	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			583613	06/12/25 21:16	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582617	06/11/25 12:19	D2TZ	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 12:19	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-6 10'
Lab Sample ID: 570-233471-21
Date Collected: 06/04/25 16:44
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.98 g	10 mL	584944	06/16/25 18:23	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585002	06/17/25 10:55	H6FE	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.00 g	50 mL	581312	06/09/25 08:29	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			581621	06/09/25 15:38	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.53 g	50 mL	582566	06/11/25 10:37	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			583151	06/12/25 08:16	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-16 2'
Lab Sample ID: 570-233471-22
Date Collected: 06/04/25 13:09
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	584944	06/16/25 18:23	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585002	06/17/25 11:16	H6FE	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.02 g	50 mL	581810	06/10/25 06:24	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582422	06/10/25 22:45	K1UV	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:58	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-17 2'
Lab Sample ID: 570-233471-23
Date Collected: 06/04/25 12:24
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.97 g	10 mL	584944	06/16/25 18:23	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585002	06/17/25 11:38	H6FE	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.00 g	50 mL	581810	06/10/25 06:24	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582422	06/10/25 22:48	K1UV	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.47 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 09:00	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-18 2'
Lab Sample ID: 570-233471-24
Date Collected: 06/04/25 11:18
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.11 g	10 mL	584944	06/16/25 18:23	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585002	06/17/25 11:59	H6FE	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.01 g	50 mL	581810	06/10/25 06:24	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582422	06/10/25 22:50	K1UV	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.49 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 09:02	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-19 2'
Lab Sample ID: 570-233471-25
Date Collected: 06/04/25 09:58
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.05 g	10 mL	584944	06/16/25 18:23	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585002	06/17/25 12:20	H6FE	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.96 g	50 mL	581810	06/10/25 06:24	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582422	06/10/25 22:52	K1UV	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 09:08	RL6Q	EET CAL 4
	Instrument ID: HG8									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Job ID: 570-233471-1
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233471-1	B-7 2'	Solid	06/04/25 07:20	06/05/25 19:43
570-233471-2	B-7 5'	Solid	06/04/25 07:36	06/05/25 19:43
570-233471-3	B-7 10'	Solid	06/04/25 08:02	06/05/25 19:43
570-233471-4	B-15 2'	Solid	06/04/25 09:18	06/05/25 19:43
570-233471-5	B-15 5'	Solid	06/04/25 09:40	06/05/25 19:43
570-233471-6	B-15 10'	Solid	06/04/25 09:57	06/05/25 19:43
570-233471-7	B-14 2'	Solid	06/04/25 11:03	06/05/25 19:43
570-233471-8	B-14 5'	Solid	06/04/25 11:25	06/05/25 19:43
570-233471-9	B-14 10'	Solid	06/04/25 11:44	06/05/25 19:43
570-233471-10	B-12 2'	Solid	06/04/25 12:02	06/05/25 19:43
570-233471-11	B-12 5'	Solid	06/04/25 12:16	06/05/25 19:43
570-233471-12	B-12 10'	Solid	06/04/25 12:37	06/05/25 19:43
570-233471-13	B-9 2 '	Solid	06/04/25 13:34	06/05/25 19:43
570-233471-14	B-9 5'	Solid	06/04/25 13:53	06/05/25 19:43
570-233471-15	B-9 10'	Solid	06/04/25 14:07	06/05/25 19:43
570-233471-16	B-10 2'	Solid	06/04/25 14:47	06/05/25 19:43
570-233471-17	B-10 5'	Solid	06/04/25 15:08	06/05/25 19:43
570-233471-18	B-10 10'	Solid	06/04/25 15:20	06/05/25 19:43
570-233471-19	B-6 2'	Solid	06/04/25 16:16	06/05/25 19:43
570-233471-20	B-6 5'	Solid	06/04/25 16:33	06/05/25 19:43
570-233471-21	B-6 10'	Solid	06/04/25 16:44	06/05/25 19:43
570-233471-22	B-16 2'	Solid	06/04/25 13:09	06/05/25 19:43
570-233471-23	B-17 2'	Solid	06/04/25 12:24	06/05/25 19:43
570-233471-24	B-18 2'	Solid	06/04/25 11:18	06/05/25 19:43
570-233471-25	B-19 2'	Solid	06/04/25 09:58	06/05/25 19:43

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570-233471 Chain of Custody

Loc: 570
233471

ILY: 71

CHAIN OF CUSTODY RECORD

DATE: 6/4/25

PAGE: 1 OF 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD Medical Center La Jolla Outpatient Pavilion

P.O. NO.:

PROJECT CONTACT: Gabriel Smith

SAMPLER(S): (PRINT) Cameron Higman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project # 57025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Ti He 22 Metals
1	B-7 2'	6/4	7:20A	Soil	1				X	X
2	B-7 5'	6/4	7:36A	Soil	1				X	X
3	B-7 10'	6/4	8:02A	Soil	1				X	X
4	B-15 2'	6/4	9:18A	Soil	1				X	X
5	B-15 5'	6/4	9:40A	Soil	1				X	X
6	B-15 10'	6/4	9:57A	Soil	1				X	X
7	B-14 2'	6/4	11:03A	Soil	1				X	X
8	B-14 5'	6/4	11:25A	Soil	1				X	X
9	B-14 10'	6/4	11:44A	Soil	1				X	X
10	B-12 2'	6/4	12:02P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Sample Fridge	6/4/25	6:00
Sample Fridge	[signature]	6-5-25	1306
[signature]	[signature] EC	6-5-25	1943

SMST

IR92 1.0/20

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CHAIN OF CUSTODY RECORD

WO #: / LAB USE ONLY: 233471

DATE: 6/4/25

PAGE: 2 OF 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD MED CENTER LA JOLLA OUTPATIENT

P.O. NO.:

PROJECT CONTACT: Gabriel Smith

SAMPLER(S): (PRINT) CAMERON HIGMAN

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI Project # S7025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Title 22 metals
11	B-12 5'	6/4/25	12:16 P	Soil	1				X	X
12	B-12 10'	6/4/25	12:37 P	Soil	1				X	X
13	B-9 2'	6/4/25	1:34 P	Soil	1				X	X
14	B-9 5'	6/4/25	1:53 P	Soil	1				X	X
15	B-9 10'	6/4/25	2:07 P	Soil	1				X	X
16	B-10 2'	6/4/25	2:47 P	Soil	1				X	X
17	B-10 5'	6/4/25	3:08 P	Soil	1				X	X
18	B-10 10'	6/4/25	3:20 P	Soil	1				X	X
19	B-6 2'	6/4/25	4:16 P	Soil	1				X	X
20	B-6 5'	6/4/25	4:35 P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sample Fridge	Date: 6/4/25	Time: 6:00
Relinquished by: (Signature) Sample Fridge	Received by: (Signature/Affiliation) KL	Date: 6-5-25	Time: 1506
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1945

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 233471

DATE: 6/4/25

PAGE: 3 OF 3

LABORATORY CLIENT: Ninyo and Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP:

TEL: 858 576 1000 E-MAIL: jsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110067001 UCSD MED CENTER LA JOLLA OUTPATIENT

P.O. NO.:

PROJECT CONTACT: GABRIEL SMITH

SAMPLER(S): (PRINT) CAMERON HIGHLAND KEITH HASTAMA

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI # 5.7025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270 SIM)	Pesticides (8081)	PCBs (8082) by dry wieght	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals 6010/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TPH C6-C44	Title 22 Metals
21	B-6 10'	6/4/25	4:44P	Soil	1																		X	X
22	B-16 2'	6/4/25	13:09	Soil	1																		X	X
23	B-17 2'	6/4/25	12:24	Soil	1																		X	X
24	B-18 2'	6/4/25	11:18	Soil	1																		X	X
25	B-19 2'	6/4/25	9:58	Soil	1																		X	X
																							X	X
																							X	X
																							X	X
																							X	X
																							X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Sample Fridge	6/4/25	6:00
Sample Fridge	[signature] EC	6.5.25	1506
[signature]	[signature] EC	6.5.25	1943

IRC 1.0/20

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-233471-1

Login Number: 233471

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

Generated 6/30/2025 5:03:06 PM

JOB DESCRIPTION

UCSD-Medical Center La Jolla Outpatient /110064001

JOB NUMBER

570-233471-2

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

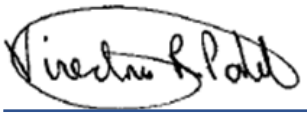
my EOL

Job Notes

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Authorization



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Authorized for release by
Virendra Patel, Project Manager I
Virendra.Patel@et.eurofinsus.com
(714)895-5494

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 11
Method Summary 12
Sample Summary 13
Chain of Custody 14
Receipt Checklists 18

Definitions/Glossary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-233471-2 Eurofins Calscience

Job Narrative
570-233471-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2025 7:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Client Sample ID: B-7 10'
Lab Sample ID: 570-233471-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.242	J	1.00	0.105	mg/L	1		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Method: SW846 6010B - Metals (ICP) - STLC Citrate

Client Sample ID: B-7 10'
Lab Sample ID: 570-233471-3
Date Collected: 06/04/25 08:02
Matrix: Solid
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00	0.398	mg/L		06/30/25 11:36	06/30/25 14:22	1
Lead	**0.242**	**J**	1.00	0.105	mg/L		06/30/25 11:36	06/30/25 14:22	1

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Job ID: 570-233471-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 570-588612/1-D
Matrix: Solid
Analysis Batch: 591376

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 591228

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00	0.398	mg/L		06/30/25 11:36	06/30/25 13:19	1
Lead	ND		1.00	0.105	mg/L		06/30/25 11:36	06/30/25 13:19	1

Lab Sample ID: LCS 570-588612/2-D
Matrix: Solid
Analysis Batch: 591376

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate
Prep Batch: 591228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			20.0	19.66		mg/L		98	80 - 120		
Lead			20.0	19.21		mg/L		96	80 - 120		

Lab Sample ID: LCSD 570-588612/3-D
Matrix: Solid
Analysis Batch: 591376

Client Sample ID: Lab Control Sample Dup
Prep Type: STLC Citrate
Prep Batch: 591228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			20.0	19.24		mg/L		96	80 - 120	2	20
Lead			20.0	18.59		mg/L		93	80 - 120	3	20

Lab Sample ID: 570-235605-A-1-H MS
Matrix: Solid
Analysis Batch: 591376

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate
Prep Batch: 591228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND		20.0	19.54		mg/L		98	80 - 140		
Lead	2.31		20.0	20.74		mg/L		92	84 - 120		

Lab Sample ID: 570-235605-A-1-I MSD
Matrix: Solid
Analysis Batch: 591376

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate
Prep Batch: 591228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		20.0	19.36		mg/L		97	80 - 140	1	11
Lead	2.31		20.0	20.54		mg/L		91	84 - 120	1	7

QC Association Summary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Metals

Leach Batch: 588612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-3	B-7 10'	STLC Citrate	Solid	CA WET Citrate	
LB 570-588612/1-D	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 570-588612/2-D	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 570-588612/3-D	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	
570-235605-A-1-H MS	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
570-235605-A-1-I MSD	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 591228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-3	B-7 10'	STLC Citrate	Solid	Dilution	588612
LB 570-588612/1-D	Method Blank	STLC Citrate	Solid	Dilution	588612
LCS 570-588612/2-D	Lab Control Sample	STLC Citrate	Solid	Dilution	588612
LCSD 570-588612/3-D	Lab Control Sample Dup	STLC Citrate	Solid	Dilution	588612
570-235605-A-1-H MS	Matrix Spike	STLC Citrate	Solid	Dilution	588612
570-235605-A-1-I MSD	Matrix Spike Duplicate	STLC Citrate	Solid	Dilution	588612

Analysis Batch: 591376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233471-3	B-7 10'	STLC Citrate	Solid	6010B	591228
LB 570-588612/1-D	Method Blank	STLC Citrate	Solid	6010B	591228
LCS 570-588612/2-D	Lab Control Sample	STLC Citrate	Solid	6010B	591228
LCSD 570-588612/3-D	Lab Control Sample Dup	STLC Citrate	Solid	6010B	591228
570-235605-A-1-H MS	Matrix Spike	STLC Citrate	Solid	6010B	591228
570-235605-A-1-I MSD	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	591228

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Client Sample ID: B-7 10'
Lab Sample ID: 570-233471-3
Date Collected: 06/04/25 08:02
Matrix: Solid
Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.10 g	500 mL	588612	06/26/25 13:00	D2TZ	EET CAL 4
STLC Citrate	Prep	Dilution			0.6 mL	12 mL	591228	06/30/25 11:36	UFLE	EET CAL 4
STLC Citrate	Analysis	6010B		1			591376	06/30/25 14:22	K1UV	EET CAL 4
	Instrument ID: ICP11									

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient /110064001

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET CAL 4
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	EET CAL 4
Dilution	Preparation / Dilution Process	None	EET CAL 4

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Job ID: 570-233471-2
Project/Site: UCSD-Medical Center La Jolla Outpatient
/110064001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233471-3	B-7 10'	Solid	06/04/25 08:02	06/05/25 19:43

Virendra Patel

From: Nathan Diem <ndiem@ninyoandmoore.com>
Sent: Monday, June 23, 2025 10:05 AM
To: Virendra Patel
Cc: Gabriel Smith PE, GE; Travis Meier QISP
Subject: UCSD-Medical Center La Jolla Outpatient - ECI 57025412 - STLC and TCLP
Attachments: J233471-1 UDS Level 2 Report Final Report.pdf; J233472-1 UDS Level 2 Report Final Report.pdf

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Virendra,

For the attached reports please run the following:

STLC:

- B-11 10’ – lead
- B-7 10' – lead

TCLP and STLC

- B-11 5' – arsenic

Thanks,

Nathan Diem
Senior Geologist
T.: + 1 858 576 1000 x 11242 | M.: + 1 510 584 7217
ndiem@ninyoandmoore.com

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San Dieg, CA 92123
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570-233471 Chain of Custody

Loc: 570
233471

LY: 71

CHAIN OF CUSTODY RECORD

DATE: 6/4/25

PAGE: 1 OF 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD Medical Center La Jolla Outpatient Pavilion

P.O. NO.:

PROJECT CONTACT: Gabriel Smith

SAMPLER(S): (PRINT) Cameron Higman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project # 57025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Ti He 22 Metals
1	B-7 2'	6/4	7:20A	Soil	1				X	X
2	B-7 5'	6/4	7:36A	Soil	1				X	X
3	B-7 10'	6/4	8:02A	Soil	1				X	X
4	B-15 2'	6/4	9:18A	Soil	1				X	X
5	B-15 5'	6/4	9:40A	Soil	1				X	X
6	B-15 10'	6/4	9:57A	Soil	1				X	X
7	B-14 2'	6/4	11:03A	Soil	1				X	X
8	B-14 5'	6/4	11:25A	Soil	1				X	X
9	B-14 10'	6/4	11:44A	Soil	1				X	X
10	B-12 2'	6/4	12:02P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Sample Fridge	6/4/25	6:00
Sample Fridge	[signature]	6-5-25	1306
[signature]	[signature] EC	6-5-25	1943

SMST

IR92 1.0/20

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CHAIN OF CUSTODY RECORD

WO #: / LAB USE ONLY: 233471

DATE: 6/4/25

PAGE: 2 OF 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD MED CENTER LA JOLLA OUTPATIENT

P.O. NO.:

PROJECT CONTACT: Gabriel Smith

SAMPLER(S): (PRINT) CAMERON HIGMAN

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI Project # S7025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Title 22 metals
11	B-12 5'	6/4/25	12:16 P	Soil	1				X	X
12	B-12 10'	6/4/25	12:37 P	Soil	1				X	X
13	B-9 2'	6/4/25	1:34 P	Soil	1				X	X
14	B-9 5'	6/4/25	1:53 P	Soil	1				X	X
15	B-9 10'	6/4/25	2:07 P	Soil	1				X	X
16	B-10 2'	6/4/25	2:47 P	Soil	1				X	X
17	B-10 5'	6/4/25	3:08 P	Soil	1				X	X
18	B-10 10'	6/4/25	3:20 P	Soil	1				X	X
19	B-6 2'	6/4/25	4:16 P	Soil	1				X	X
20	B-6 5'	6/4/25	4:35 P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sample Fridge	Date: 6/4/25	Time: 6:00
Relinquished by: (Signature) Sample Fridge	Received by: (Signature/Affiliation) KL	Date: 6-5-25	Time: 1506
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1945

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 233471

DATE: 6/4/25

PAGE: 3 OF 3

LABORATORY CLIENT: Ninyo and Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP:

TEL: 858 576 1000 E-MAIL: jsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110067001 UCSD MED CENTER LA JOLLA OUTPATIENT

P.O. NO.:

PROJECT CONTACT: GABRIEL SMITH

SAMPLER(S): (PRINT) CAMERON HIGHLAND KEITH HASTAMA

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI # 5.7025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270 SIM)	Pesticides (8081)	PCBs (8082) by dry wieght	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals 6010/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TPH C6-C44	Title 22 Metals
21	B-6 10'	6/4/25	4:44P	Soil	1																		X	X
22	B-16 2'	6/4/25	13:09	Soil	1																		X	X
23	B-17 2'	6/4/25	12:24	Soil	1																		X	X
24	B-18 2'	6/4/25	11:18	Soil	1																		X	X
25	B-19 2'	6/4/25	9:58	Soil	1																		X	X
																							X	X
																							X	X
																							X	X
																							X	X
																							X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Sample Fridge	6/4/25	6:00
Sample Fridge	[signature] EC	6.5.25	1506
[signature]	[signature] EC	6.5.25	1943

IRC 1.0/20

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-233471-2

Login Number: 233471

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

Generated 6/17/2025 12:38:54 PM

JOB DESCRIPTION

UCSD-Medical Center La Jolla Outpateint/110064001

JOB NUMBER

570-233472-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

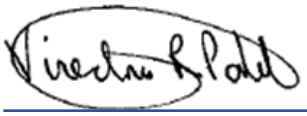
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 10
Surrogate Summary 22
QC Sample Results 23
QC Association Summary 28
Lab Chronicle 31
Certification Summary 35
Method Summary 36
Sample Summary 37
Chain of Custody 38
Receipt Checklists 39

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-233472-1 Eurofins Calscience

Job Narrative
570-233472-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2025 7:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-581808 and analytical batch 570-582225 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Client Sample ID: B-8 2'

Lab Sample ID: 570-233472-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16.7		2.97	1.38	mg/Kg	5		6010B	Total/NA
Barium	118		2.97	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.532		0.495	0.0683	mg/Kg	5		6010B	Total/NA
Cobalt	5.11		0.990	0.204	mg/Kg	5		6010B	Total/NA
Chromium	13.4		0.990	0.184	mg/Kg	5		6010B	Total/NA
Copper	18.0		1.98	0.949	mg/Kg	5		6010B	Total/NA
Nickel	6.65		1.98	0.358	mg/Kg	5		6010B	Total/NA
Vanadium	30.2		0.990	0.166	mg/Kg	5		6010B	Total/NA
Zinc	50.3		4.95	1.14	mg/Kg	5		6010B	Total/NA
Lead	11.9		1.98	0.405	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-8 5'

Lab Sample ID: 570-233472-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C25-C28	12		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	18		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	19		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	17		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	12		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	91		25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	23		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	40.4		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	95.4		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.343	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	3.08		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	8.98		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	7.89		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	3.78		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	27.3		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	25.6		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	5.84		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-2 2 '

Lab Sample ID: 570-233472-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	8.2		5.0	4.6	mg/Kg	1		8015B	Total/NA
C21-C22	8.1		5.0	4.6	mg/Kg	1		8015B	Total/NA
C23-C24	21		5.0	4.6	mg/Kg	1		8015B	Total/NA
C25-C28	74		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	160		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	140		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	89		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	47		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	550		25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	120		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	6.38		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	117		3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	0.275	J	0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	2.90		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	11.6		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	11.8		2.00	0.958	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-2 2 ' (Continued) — Lab Sample ID: 570-233472-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.875	J	2.00	0.515	mg/Kg	5		6010B	Total/NA
Nickel	5.08		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	24.8		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	28.4		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	9.26		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-2 5' — Lab Sample ID: 570-233472-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C33-C36	4.7	J	5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	6.0		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	8.2		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	29		25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	5.4		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	8.21		2.97	1.38	mg/Kg	5		6010B	Total/NA
Barium	94.6		2.97	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.285	J	0.495	0.0683	mg/Kg	5		6010B	Total/NA
Cobalt	4.76		0.990	0.204	mg/Kg	5		6010B	Total/NA
Chromium	156		0.990	0.184	mg/Kg	5		6010B	Total/NA
Copper	13.4		1.98	0.949	mg/Kg	5		6010B	Total/NA
Molybdenum	0.755	J	1.98	0.510	mg/Kg	5		6010B	Total/NA
Nickel	8.21		1.98	0.358	mg/Kg	5		6010B	Total/NA
Vanadium	28.4		0.990	0.166	mg/Kg	5		6010B	Total/NA
Zinc	30.7		4.95	1.14	mg/Kg	5		6010B	Total/NA
Lead	6.13		1.98	0.405	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-4 2' — Lab Sample ID: 570-233472-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C25-C28	10		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	17		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	18		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	15		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	11		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	79		25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	17		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	7.47		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	21.3	F2	3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.188	J	0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	1.37		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	7.91		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	3.00		2.01	0.963	mg/Kg	5		6010B	Total/NA
Nickel	2.25		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	23.1		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	6.42		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	2.16		2.01	0.411	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-4 5' — Lab Sample ID: 570-233472-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C41-C44	4.9	J	5.0	4.6	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-4 5' (Continued) — Lab Sample ID: 570-233472-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	24	J	25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	5.6		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	6.67		2.96	1.37	mg/Kg	5		6010B	Total/NA
Barium	21.0		2.96	0.140	mg/Kg	5		6010B	Total/NA
Beryllium	0.172	J	0.493	0.0680	mg/Kg	5		6010B	Total/NA
Cobalt	3.19		0.985	0.203	mg/Kg	5		6010B	Total/NA
Chromium	9.56		0.985	0.183	mg/Kg	5		6010B	Total/NA
Copper	10.8		1.97	0.944	mg/Kg	5		6010B	Total/NA
Nickel	4.19		1.97	0.357	mg/Kg	5		6010B	Total/NA
Vanadium	21.7		0.985	0.166	mg/Kg	5		6010B	Total/NA
Zinc	29.2		4.93	1.14	mg/Kg	5		6010B	Total/NA
Lead	3.17		1.97	0.403	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-2 10' — Lab Sample ID: 570-233472-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	11	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	22.3		3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	48.3		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.431	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	2.89		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	9.43		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	8.91		2.03	0.973	mg/Kg	5		6010B	Total/NA
Molybdenum	0.622	J	2.03	0.523	mg/Kg	5		6010B	Total/NA
Nickel	3.57		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	22.5		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	32.9		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	12.0		2.03	0.415	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-11 2' — Lab Sample ID: 570-233472-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	10		5.0	4.6	mg/Kg	1		8015B	Total/NA
C21-C22	15		5.0	4.6	mg/Kg	1		8015B	Total/NA
C23-C24	60		5.0	4.6	mg/Kg	1		8015B	Total/NA
C25-C28	190		5.0	4.6	mg/Kg	1		8015B	Total/NA
C29-C32	180		5.0	4.6	mg/Kg	1		8015B	Total/NA
C33-C36	130		5.0	4.6	mg/Kg	1		8015B	Total/NA
C37-C40	73		5.0	4.6	mg/Kg	1		8015B	Total/NA
C41-C44	34		5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	700		25	4.6	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	280		5.0	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	2.62	J	2.97	1.38	mg/Kg	5		6010B	Total/NA
Barium	144		2.97	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	0.149	J	0.495	0.0683	mg/Kg	5		6010B	Total/NA
Cobalt	2.22		0.990	0.204	mg/Kg	5		6010B	Total/NA
Chromium	8.90		0.990	0.184	mg/Kg	5		6010B	Total/NA
Copper	4.95		1.98	0.949	mg/Kg	5		6010B	Total/NA
Nickel	3.07		1.98	0.358	mg/Kg	5		6010B	Total/NA
Vanadium	21.0		0.990	0.166	mg/Kg	5		6010B	Total/NA
Zinc	12.8		4.95	1.14	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Client Sample ID: B-11 2' (Continued) — Lab Sample ID: 570-233472-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.47		1.98	0.405	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-11 5' — Lab Sample ID: 570-233472-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C41-C44	4.9	J	5.0	4.6	mg/Kg	1		8015B	Total/NA
C6-C44	18	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	193		2.94	1.36	mg/Kg	5		6010B	Total/NA
Barium	93.6		2.94	0.139	mg/Kg	5		6010B	Total/NA
Beryllium	0.980		0.490	0.0676	mg/Kg	5		6010B	Total/NA
Cobalt	5.20		0.980	0.202	mg/Kg	5		6010B	Total/NA
Chromium	14.3		0.980	0.182	mg/Kg	5		6010B	Total/NA
Copper	46.2		1.96	0.939	mg/Kg	5		6010B	Total/NA
Molybdenum	1.24	J	1.96	0.505	mg/Kg	5		6010B	Total/NA
Nickel	7.79		1.96	0.355	mg/Kg	5		6010B	Total/NA
Vanadium	116		0.980	0.165	mg/Kg	5		6010B	Total/NA
Zinc	83.8		4.90	1.13	mg/Kg	5		6010B	Total/NA
Lead	14.0		1.96	0.401	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-11 10' — Lab Sample ID: 570-233472-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	14	J	25	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	5.3		5.0	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	12.6		3.02	1.40	mg/Kg	5		6010B	Total/NA
Barium	389		3.02	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	1.36		0.503	0.0693	mg/Kg	5		6010B	Total/NA
Cobalt	16.8		1.01	0.207	mg/Kg	5		6010B	Total/NA
Chromium	16.6		1.01	0.187	mg/Kg	5		6010B	Total/NA
Copper	31.7		2.01	0.963	mg/Kg	5		6010B	Total/NA
Molybdenum	1.18	J	2.01	0.518	mg/Kg	5		6010B	Total/NA
Nickel	13.8		2.01	0.364	mg/Kg	5		6010B	Total/NA
Vanadium	29.5		1.01	0.169	mg/Kg	5		6010B	Total/NA
Zinc	79.8		5.03	1.16	mg/Kg	5		6010B	Total/NA
Lead	59.2		2.01	0.411	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-8 2'
Date Collected: 06/03/25 07:30
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C33-C36	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C37-C40	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C41-C44	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
C6-C44	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*104*		*29 - 160*	*06/14/25 14:16*	*06/16/25 18:58*	*1*

Client Sample ID: B-8 5'
Date Collected: 06/03/25 08:02
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C25-C28	**12**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C29-C32	**18**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C33-C36	**19**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C37-C40	**17**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C41-C44	**12**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
C6-C44	**91**		25	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1
Diesel Range Organics [C10-C28]	**23**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*118*		*29 - 160*	*06/14/25 14:16*	*06/16/25 19:20*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-2 2 '
Date Collected: 06/03/25 09:11
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C19-C20	**8.2**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C21-C22	**8.1**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C23-C24	**21**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C25-C28	**74**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C29-C32	**160**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C33-C36	**140**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C37-C40	**89**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C41-C44	**47**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
C6-C44	**550**		25	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1
Diesel Range Organics [C10-C28]	**120**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*126*		*29 - 160*	*06/14/25 14:16*	*06/16/25 19:42*	*1*

Client Sample ID: B-2 5'
Date Collected: 06/03/25 10:12
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C33-C36	**4.7**	**J**	5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C37-C40	**6.0**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C41-C44	**8.2**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
C6-C44	**29**		25	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1
Diesel Range Organics [C10-C28]	**5.4**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*118*		*29 - 160*	*06/14/25 14:16*	*06/16/25 20:04*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-4 2'
Date Collected: 06/03/25 12:13
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C25-C28	**10**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C29-C32	**17**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C33-C36	**18**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C37-C40	**15**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C41-C44	**11**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
C6-C44	**79**		25	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1
Diesel Range Organics [C10-C28]	**17**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*126*		*29 - 160*	*06/14/25 14:16*	*06/16/25 20:26*	*1*

Client Sample ID: B-4 5'
Date Collected: 06/03/25 12:37
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C33-C36	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C37-C40	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C41-C44	**4.9**	**J**	5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
C6-C44	**24**	**J**	25	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1
Diesel Range Organics [C10-C28]	**5.6**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*118*		*29 - 160*	*06/14/25 14:16*	*06/16/25 20:48*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-2 10'
Date Collected: 06/03/25 11:20
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C33-C36	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C37-C40	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C41-C44	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
C6-C44	**11**	**J**	25	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*117*		*29 - 160*	*06/14/25 14:16*	*06/16/25 21:10*	*1*

Client Sample ID: B-11 2'
Date Collected: 06/03/25 14:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C19-C20	**10**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C21-C22	**15**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C23-C24	**60**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C25-C28	**190**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C29-C32	**180**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C33-C36	**130**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C37-C40	**73**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C41-C44	**34**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
C6-C44	**700**		25	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1
Diesel Range Organics [C10-C28]	**280**		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*113*		*29 - 160*	*06/14/25 14:16*	*06/16/25 21:54*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-11 5'
Date Collected: 06/03/25 14:56
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C33-C36	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C37-C40	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C41-C44	**4.9**	**J**	5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
C6-C44	**18**	**J**	25	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*125*		*29 - 160*	*06/14/25 14:16*	*06/16/25 22:16*	*1*

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C7	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C8	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C9-C10	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C11-C12	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C13-C14	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C15-C16	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C17-C18	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C19-C20	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C21-C22	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C23-C24	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C25-C28	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C29-C32	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C33-C36	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C37-C40	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C41-C44	ND		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
C6-C44	**14**	**J**	25	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1
Diesel Range Organics [C10-C28]	**5.3**		5.0	4.5	mg/Kg		06/14/25 14:16	06/16/25 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*120*		*29 - 160*	*06/14/25 14:16*	*06/16/25 22:38*	*1*

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-8 2'
Date Collected: 06/03/25 07:30
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Arsenic	**16.7**		2.97	1.38	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Barium	**118**		2.97	0.141	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Beryllium	**0.532**		0.495	0.0683	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Cadmium	ND		0.495	0.162	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Cobalt	**5.11**		0.990	0.204	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Chromium	**13.4**		0.990	0.184	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Copper	**18.0**		1.98	0.949	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Molybdenum	ND		1.98	0.510	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Nickel	**6.65**		1.98	0.358	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Antimony	ND		9.90	2.83	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Selenium	ND		2.97	1.21	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Thallium	ND		9.90	2.09	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Vanadium	**30.2**		0.990	0.166	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Zinc	**50.3**		4.95	1.14	mg/Kg		06/10/25 06:22	06/10/25 19:47	5
Lead	**11.9**		1.98	0.405	mg/Kg		06/10/25 06:22	06/10/25 19:47	5

Client Sample ID: B-8 5'
Date Collected: 06/03/25 08:02
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Arsenic	**40.4**		3.05	1.41	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Barium	**95.4**		3.05	0.144	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Beryllium	**0.343**	**J**	0.508	0.0701	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Cadmium	ND		0.508	0.166	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Cobalt	**3.08**		1.02	0.209	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Chromium	**8.98**		1.02	0.189	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Copper	**7.89**		2.03	0.973	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Nickel	**3.78**		2.03	0.368	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Antimony	ND		10.2	2.90	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Selenium	ND		3.05	1.24	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Thallium	ND		10.2	2.14	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Vanadium	**27.3**		1.02	0.171	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Zinc	**25.6**		5.08	1.17	mg/Kg		06/10/25 06:22	06/10/25 19:50	5
Lead	**5.84**		2.03	0.415	mg/Kg		06/10/25 06:22	06/10/25 19:50	5

Client Sample ID: B-2 2 '
Date Collected: 06/03/25 09:11
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Arsenic	**6.38**		3.00	1.39	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Barium	**117**		3.00	0.142	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Beryllium	**0.275**	**J**	0.500	0.0690	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Cadmium	ND		0.500	0.164	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Cobalt	**2.90**		1.00	0.206	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Chromium	**11.6**		1.00	0.186	mg/Kg		06/10/25 06:22	06/10/25 19:52	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-2 2 ' — **Lab Sample ID: 570-233472-3**
Date Collected: 06/03/25 09:11 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	11.8		2.00	0.958	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Molybdenum	0.875	J	2.00	0.515	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Nickel	5.08		2.00	0.362	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Antimony	ND		10.0	2.86	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Selenium	ND		3.00	1.22	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Thallium	ND		10.0	2.11	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Vanadium	24.8		1.00	0.168	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Zinc	28.4		5.00	1.16	mg/Kg		06/10/25 06:22	06/10/25 19:52	5
Lead	9.26		2.00	0.409	mg/Kg		06/10/25 06:22	06/10/25 19:52	5

Client Sample ID: B-2 5' — **Lab Sample ID: 570-233472-4**
Date Collected: 06/03/25 10:12 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Arsenic	8.21		2.97	1.38	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Barium	94.6		2.97	0.141	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Beryllium	0.285	J	0.495	0.0683	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Cadmium	ND		0.495	0.162	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Cobalt	4.76		0.990	0.204	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Chromium	156		0.990	0.184	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Copper	13.4		1.98	0.949	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Molybdenum	0.755	J	1.98	0.510	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Nickel	8.21		1.98	0.358	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Antimony	ND		9.90	2.83	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Selenium	ND		2.97	1.21	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Thallium	ND		9.90	2.09	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Vanadium	28.4		0.990	0.166	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Zinc	30.7		4.95	1.14	mg/Kg		06/10/25 06:22	06/10/25 19:54	5
Lead	6.13		1.98	0.405	mg/Kg		06/10/25 06:22	06/10/25 19:54	5

Client Sample ID: B-4 2' — **Lab Sample ID: 570-233472-5**
Date Collected: 06/03/25 12:13 — **Matrix: Solid**
Date Received: 06/05/25 19:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Arsenic	7.47		3.02	1.40	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Barium	21.3	F2	3.02	0.143	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Beryllium	0.188	J	0.503	0.0693	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Cadmium	ND		0.503	0.165	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Cobalt	1.37		1.01	0.207	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Chromium	7.91		1.01	0.187	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Copper	3.00		2.01	0.963	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Nickel	2.25		2.01	0.364	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Antimony	ND	F1	10.1	2.87	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Selenium	ND		3.02	1.23	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Thallium	ND		10.1	2.12	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Vanadium	23.1		1.01	0.169	mg/Kg		06/10/25 06:22	06/10/25 16:48	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-4 2'
Date Collected: 06/03/25 12:13
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**6.42**		5.03	1.16	mg/Kg		06/10/25 06:22	06/10/25 16:48	5
Lead	**2.16**		2.01	0.411	mg/Kg		06/10/25 06:22	06/10/25 16:48	5

Client Sample ID: B-4 5'
Date Collected: 06/03/25 12:37
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.48	0.142	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Arsenic	**6.67**		2.96	1.37	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Barium	**21.0**		2.96	0.140	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Beryllium	**0.172**	**J**	0.493	0.0680	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Cadmium	ND		0.493	0.162	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Cobalt	**3.19**		0.985	0.203	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Chromium	**9.56**		0.985	0.183	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Copper	**10.8**		1.97	0.944	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Molybdenum	ND		1.97	0.507	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Nickel	**4.19**		1.97	0.357	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Antimony	ND		9.85	2.81	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Selenium	ND		2.96	1.20	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Thallium	ND		9.85	2.07	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Vanadium	**21.7**		0.985	0.166	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Zinc	**29.2**		4.93	1.14	mg/Kg		06/10/25 06:22	06/10/25 19:57	5
Lead	**3.17**		1.97	0.403	mg/Kg		06/10/25 06:22	06/10/25 19:57	5

Client Sample ID: B-2 10'
Date Collected: 06/03/25 11:20
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Arsenic	**22.3**		3.05	1.41	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Barium	**48.3**		3.05	0.144	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Beryllium	**0.431**	**J**	0.508	0.0701	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Cadmium	ND		0.508	0.166	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Cobalt	**2.89**		1.02	0.209	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Chromium	**9.43**		1.02	0.189	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Copper	**8.91**		2.03	0.973	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Molybdenum	**0.622**	**J**	2.03	0.523	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Nickel	**3.57**		2.03	0.368	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Antimony	ND		10.2	2.90	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Selenium	ND		3.05	1.24	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Thallium	ND		10.2	2.14	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Vanadium	**22.5**		1.02	0.171	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Zinc	**32.9**		5.08	1.17	mg/Kg		06/10/25 06:22	06/10/25 19:59	5
Lead	**12.0**		2.03	0.415	mg/Kg		06/10/25 06:22	06/10/25 19:59	5

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-11 2'
Date Collected: 06/03/25 14:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.49	0.143	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Arsenic	**2.62**	**J**	2.97	1.38	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Barium	**144**		2.97	0.141	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Beryllium	**0.149**	**J**	0.495	0.0683	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Cadmium	ND		0.495	0.162	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Cobalt	**2.22**		0.990	0.204	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Chromium	**8.90**		0.990	0.184	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Copper	**4.95**		1.98	0.949	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Molybdenum	ND		1.98	0.510	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Nickel	**3.07**		1.98	0.358	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Antimony	ND		9.90	2.83	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Selenium	ND		2.97	1.21	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Thallium	ND		9.90	2.09	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Vanadium	**21.0**		0.990	0.166	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Zinc	**12.8**		4.95	1.14	mg/Kg		06/10/25 06:22	06/10/25 20:01	5
Lead	**4.47**		1.98	0.405	mg/Kg		06/10/25 06:22	06/10/25 20:01	5

Client Sample ID: B-11 5'
Date Collected: 06/03/25 14:56
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.47	0.141	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Arsenic	**193**		2.94	1.36	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Barium	**93.6**		2.94	0.139	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Beryllium	**0.980**		0.490	0.0676	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Cadmium	ND		0.490	0.161	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Cobalt	**5.20**		0.980	0.202	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Chromium	**14.3**		0.980	0.182	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Copper	**46.2**		1.96	0.939	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Molybdenum	**1.24**	**J**	1.96	0.505	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Nickel	**7.79**		1.96	0.355	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Antimony	ND		9.80	2.80	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Selenium	ND		2.94	1.20	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Thallium	ND		9.80	2.06	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Vanadium	**116**		0.980	0.165	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Zinc	**83.8**		4.90	1.13	mg/Kg		06/10/25 06:22	06/10/25 20:08	5
Lead	**14.0**		1.96	0.401	mg/Kg		06/10/25 06:22	06/10/25 20:08	5

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Arsenic	**12.6**		3.02	1.40	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Barium	**389**		3.02	0.143	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Beryllium	**1.36**		0.503	0.0693	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Cadmium	ND		0.503	0.165	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Cobalt	**16.8**		1.01	0.207	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Chromium	**16.6**		1.01	0.187	mg/Kg		06/10/25 06:22	06/10/25 20:10	5

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**31.7**		2.01	0.963	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Molybdenum	**1.18**	**J**	2.01	0.518	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Nickel	**13.8**		2.01	0.364	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Antimony	ND		10.1	2.87	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Selenium	ND		3.02	1.23	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Thallium	ND		10.1	2.12	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Vanadium	**29.5**		1.01	0.169	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Zinc	**79.8**		5.03	1.16	mg/Kg		06/10/25 06:22	06/10/25 20:10	5
Lead	**59.2**		2.01	0.411	mg/Kg		06/10/25 06:22	06/10/25 20:10	5

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-8 2'
Date Collected: 06/03/25 07:30
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/10/25 13:40	06/11/25 08:31	1

Client Sample ID: B-8 5'
Date Collected: 06/03/25 08:02
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/10/25 13:40	06/11/25 08:29	1

Client Sample ID: B-2 2 '
Date Collected: 06/03/25 09:11
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/10/25 13:40	06/11/25 08:35	1

Client Sample ID: B-2 5'
Date Collected: 06/03/25 10:12
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/10/25 13:40	06/11/25 08:45	1

Client Sample ID: B-4 2'
Date Collected: 06/03/25 12:13
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/10/25 13:40	06/11/25 08:47	1

Client Sample ID: B-4 5'
Date Collected: 06/03/25 12:37
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/10/25 13:40	06/11/25 08:49	1

Client Sample ID: B-2 10'
Date Collected: 06/03/25 11:20
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/10/25 13:40	06/11/25 08:51	1

Client Sample ID: B-11 2'
Date Collected: 06/03/25 14:34
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/10/25 13:40	06/11/25 08:52	1

Client Sample ID: B-11 5'
Date Collected: 06/03/25 14:56
Date Received: 06/05/25 19:43
Lab Sample ID: 570-233472-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/10/25 13:40	06/11/25 08:54	1

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0850	0.0235	mg/Kg		06/10/25 13:40	06/11/25 08:56	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTCSN1 (29-160)									
570-233472-1	B-8 2'	104									
570-233472-2	B-8 5'	118									
570-233472-3	B-2 2 '	126									
570-233472-4	B-2 5'	118									
570-233472-5	B-4 2'	126									
570-233472-6	B-4 5'	118									
570-233472-7	B-2 10'	117									
570-233472-8	B-11 2'	113									
570-233472-9	B-11 5'	125									
570-233472-10	B-11 10'	120									
570-233884-D-21-F MS	Matrix Spike	121									
570-233884-D-21-G MSD	Matrix Spike Duplicate	116									
LCS 570-584269/2-A	Lab Control Sample	123									
LCSD 570-584269/3-A	Lab Control Sample Dup	111									
MB 570-584269/1-A	Method Blank	124									

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-584269/1-A
Matrix: Solid
Analysis Batch: 584650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C7	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C8	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C9-C10	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C11-C12	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C13-C14	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C15-C16	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C17-C18	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C19-C20	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C21-C22	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C23-C24	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C25-C28	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C29-C32	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C33-C36	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C37-C40	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C41-C44	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
C6-C44	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/14/25 14:16	06/16/25 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*124*		*29 - 160*	*06/14/25 14:16*	*06/16/25 13:04*	*1*

Lab Sample ID: LCS 570-584269/2-A
Matrix: Solid
Analysis Batch: 584650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584269

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	453.6		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*123*		*29 - 160*

Lab Sample ID: LCSD 570-584269/3-A
Matrix: Solid
Analysis Batch: 584650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584269

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	456.7		mg/Kg		114	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*29 - 160*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-233884-D-21-F MS
Matrix: Solid
Analysis Batch: 584650

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 584269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		402	454.2		mg/Kg		113	43 - 165

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*121*		*29 - 160*

Lab Sample ID: 570-233884-D-21-G MSD
Matrix: Solid
Analysis Batch: 584650

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 584269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		401	439.9		mg/Kg		110	43 - 165	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*116*		*29 - 160*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-581808/1-A
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Arsenic	ND		3.02	1.40	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Barium	ND		3.02	0.143	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Beryllium	ND		0.503	0.0693	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Cadmium	ND		0.503	0.165	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Cobalt	ND		1.01	0.207	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Chromium	ND		1.01	0.187	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Copper	ND		2.01	0.963	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Nickel	ND		2.01	0.364	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Antimony	ND		10.1	2.87	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Selenium	ND		3.02	1.23	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Thallium	ND		10.1	2.12	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Vanadium	ND		1.01	0.169	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Zinc	ND		5.03	1.16	mg/Kg		06/10/25 06:22	06/10/25 16:34	5
Lead	ND		2.01	0.411	mg/Kg		06/10/25 06:22	06/10/25 16:34	5

Lab Sample ID: LCS 570-581808/2-A
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.1	21.76		mg/Kg		87	80 - 120
Arsenic	50.3	42.60		mg/Kg		85	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-581808/2-A
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	50.3	44.01		mg/Kg		88	80 - 120
Beryllium	50.3	43.44		mg/Kg		86	80 - 120
Cadmium	50.3	43.44		mg/Kg		86	80 - 120
Cobalt	50.3	44.16		mg/Kg		88	80 - 120
Chromium	50.3	43.91		mg/Kg		87	80 - 120
Copper	50.3	44.85		mg/Kg		89	80 - 120
Molybdenum	50.3	45.49		mg/Kg		91	80 - 120
Nickel	50.3	44.40		mg/Kg		88	80 - 120
Antimony	50.3	44.47		mg/Kg		89	80 - 120
Selenium	50.3	42.05		mg/Kg		84	80 - 120
Thallium	50.3	41.93		mg/Kg		83	80 - 120
Vanadium	50.3	43.62		mg/Kg		87	80 - 120
Zinc	50.3	43.83		mg/Kg		87	80 - 120
Lead	50.3	43.96		mg/Kg		87	80 - 120

Lab Sample ID: LCSD 570-581808/3-A
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	25.1	23.14		mg/Kg		92	80 - 120	6	20
Arsenic	50.3	45.24		mg/Kg		90	80 - 120	6	20
Barium	50.3	46.85		mg/Kg		93	80 - 120	6	20
Beryllium	50.3	46.38		mg/Kg		92	80 - 120	7	20
Cadmium	50.3	46.46		mg/Kg		92	80 - 120	7	20
Cobalt	50.3	47.01		mg/Kg		94	80 - 120	6	20
Chromium	50.3	46.71		mg/Kg		93	80 - 120	6	20
Copper	50.3	47.84		mg/Kg		95	80 - 120	6	20
Molybdenum	50.3	48.61		mg/Kg		97	80 - 120	7	20
Nickel	50.3	47.25		mg/Kg		94	80 - 120	6	20
Antimony	50.3	47.66		mg/Kg		95	80 - 120	7	20
Selenium	50.3	44.10		mg/Kg		88	80 - 120	5	20
Thallium	50.3	44.48		mg/Kg		89	80 - 120	6	20
Vanadium	50.3	46.48		mg/Kg		93	80 - 120	6	20
Zinc	50.3	46.73		mg/Kg		93	80 - 120	6	20
Lead	50.3	47.01		mg/Kg		94	80 - 120	7	20

Lab Sample ID: 570-233472-5 MS
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: B-4 2'
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		25.1	22.45		mg/Kg		89	75 - 125
Arsenic	7.47		50.3	51.37		mg/Kg		87	75 - 125
Barium	21.3	F2	50.3	76.56		mg/Kg		110	75 - 125
Beryllium	0.188	J	50.3	46.01		mg/Kg		91	75 - 125
Cadmium	ND		50.3	44.79		mg/Kg		89	75 - 125
Cobalt	1.37		50.3	46.75		mg/Kg		90	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-233472-5 MS
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: B-4 2'
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	7.91		50.3	55.10		mg/Kg		94	75 - 125
Copper	3.00		50.3	51.38		mg/Kg		96	75 - 125
Molybdenum	ND		50.3	45.65		mg/Kg		91	75 - 125
Nickel	2.25		50.3	48.29		mg/Kg		92	75 - 125
Antimony	ND	F1	50.3	25.77	F1	mg/Kg		51	75 - 125
Selenium	ND		50.3	43.62		mg/Kg		87	75 - 125
Thallium	ND		50.3	42.49		mg/Kg		85	75 - 125
Vanadium	23.1		50.3	70.92		mg/Kg		95	75 - 125
Zinc	6.42		50.3	54.41		mg/Kg		96	75 - 125
Lead	2.16		50.3	47.61		mg/Kg		90	75 - 125

Lab Sample ID: 570-233472-5 MSD
Matrix: Solid
Analysis Batch: 582225

Client Sample ID: B-4 2'
Prep Type: Total/NA
Prep Batch: 581808

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		25.1	22.15		mg/Kg		88	75 - 125	1	20
Arsenic	7.47		50.3	48.33		mg/Kg		81	75 - 125	6	20
Barium	21.3	F2	50.3	59.16	F2	mg/Kg		75	75 - 125	26	20
Beryllium	0.188	J	50.3	44.76		mg/Kg		89	75 - 125	3	20
Cadmium	ND		50.3	43.68		mg/Kg		87	75 - 125	2	20
Cobalt	1.37		50.3	44.95		mg/Kg		87	75 - 125	4	20
Chromium	7.91		50.3	51.56		mg/Kg		87	75 - 125	7	20
Copper	3.00		50.3	49.37		mg/Kg		92	75 - 125	4	20
Molybdenum	ND		50.3	45.19		mg/Kg		90	75 - 125	1	20
Nickel	2.25		50.3	46.88		mg/Kg		89	75 - 125	3	20
Antimony	ND	F1	50.3	27.32	F1	mg/Kg		54	75 - 125	6	20
Selenium	ND		50.3	42.24		mg/Kg		84	75 - 125	3	20
Thallium	ND		50.3	41.14		mg/Kg		82	75 - 125	3	20
Vanadium	23.1		50.3	64.16		mg/Kg		82	75 - 125	10	20
Zinc	6.42		50.3	51.49		mg/Kg		90	75 - 125	6	20
Lead	2.16		50.3	45.50		mg/Kg		86	75 - 125	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-582070/1-A
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/10/25 13:40	06/11/25 08:18	1

Lab Sample ID: LCS 570-582070/2-A
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.417	0.4269		mg/Kg		102	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-582070/3-A
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 582070

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.400	0.4192		mg/Kg		105	80 - 120	2	20

Lab Sample ID: 570-233472-1 MS
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: B-8 2'
Prep Type: Total/NA
Prep Batch: 582070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.408	0.4205		mg/Kg		103	75 - 125		

Lab Sample ID: 570-233472-1 MSD
Matrix: Solid
Analysis Batch: 582554

Client Sample ID: B-8 2'
Prep Type: Total/NA
Prep Batch: 582070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.417	0.4586		mg/Kg		110	75 - 125	9	20

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

GC Semi VOA

Prep Batch: 584269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	3550C	
570-233472-2	B-8 5'	Total/NA	Solid	3550C	
570-233472-3	B-2 2 '	Total/NA	Solid	3550C	
570-233472-4	B-2 5'	Total/NA	Solid	3550C	
570-233472-5	B-4 2'	Total/NA	Solid	3550C	
570-233472-6	B-4 5'	Total/NA	Solid	3550C	
570-233472-7	B-2 10'	Total/NA	Solid	3550C	
570-233472-8	B-11 2'	Total/NA	Solid	3550C	
570-233472-9	B-11 5'	Total/NA	Solid	3550C	
570-233472-10	B-11 10'	Total/NA	Solid	3550C	
MB 570-584269/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-584269/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-584269/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-233884-D-21-F MS	Matrix Spike	Total/NA	Solid	3550C	
570-233884-D-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 584650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	8015B	584269
570-233472-2	B-8 5'	Total/NA	Solid	8015B	584269
570-233472-3	B-2 2 '	Total/NA	Solid	8015B	584269
570-233472-4	B-2 5'	Total/NA	Solid	8015B	584269
570-233472-5	B-4 2'	Total/NA	Solid	8015B	584269
570-233472-6	B-4 5'	Total/NA	Solid	8015B	584269
570-233472-7	B-2 10'	Total/NA	Solid	8015B	584269
570-233472-8	B-11 2'	Total/NA	Solid	8015B	584269
570-233472-9	B-11 5'	Total/NA	Solid	8015B	584269
570-233472-10	B-11 10'	Total/NA	Solid	8015B	584269
MB 570-584269/1-A	Method Blank	Total/NA	Solid	8015B	584269
LCS 570-584269/2-A	Lab Control Sample	Total/NA	Solid	8015B	584269
LCSD 570-584269/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	584269
570-233884-D-21-F MS	Matrix Spike	Total/NA	Solid	8015B	584269
570-233884-D-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	584269

Metals

Prep Batch: 581808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	3050B	
570-233472-2	B-8 5'	Total/NA	Solid	3050B	
570-233472-3	B-2 2 '	Total/NA	Solid	3050B	
570-233472-4	B-2 5'	Total/NA	Solid	3050B	
570-233472-5	B-4 2'	Total/NA	Solid	3050B	
570-233472-6	B-4 5'	Total/NA	Solid	3050B	
570-233472-7	B-2 10'	Total/NA	Solid	3050B	
570-233472-8	B-11 2'	Total/NA	Solid	3050B	
570-233472-9	B-11 5'	Total/NA	Solid	3050B	
570-233472-10	B-11 10'	Total/NA	Solid	3050B	
MB 570-581808/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-581808/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 581808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-581808/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-233472-5 MS	B-4 2'	Total/NA	Solid	3050B	
570-233472-5 MSD	B-4 2'	Total/NA	Solid	3050B	

Prep Batch: 582070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	7471A	
570-233472-2	B-8 5'	Total/NA	Solid	7471A	
570-233472-3	B-2 2 '	Total/NA	Solid	7471A	
570-233472-4	B-2 5'	Total/NA	Solid	7471A	
570-233472-5	B-4 2'	Total/NA	Solid	7471A	
570-233472-6	B-4 5'	Total/NA	Solid	7471A	
570-233472-7	B-2 10'	Total/NA	Solid	7471A	
570-233472-8	B-11 2'	Total/NA	Solid	7471A	
570-233472-9	B-11 5'	Total/NA	Solid	7471A	
570-233472-10	B-11 10'	Total/NA	Solid	7471A	
MB 570-582070/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-582070/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-582070/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-233472-1 MS	B-8 2'	Total/NA	Solid	7471A	
570-233472-1 MSD	B-8 2'	Total/NA	Solid	7471A	

Analysis Batch: 582225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-5	B-4 2'	Total/NA	Solid	6010B	581808
MB 570-581808/1-A	Method Blank	Total/NA	Solid	6010B	581808
LCS 570-581808/2-A	Lab Control Sample	Total/NA	Solid	6010B	581808
LCSD 570-581808/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	581808
570-233472-5 MS	B-4 2'	Total/NA	Solid	6010B	581808
570-233472-5 MSD	B-4 2'	Total/NA	Solid	6010B	581808

Analysis Batch: 582459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	6010B	581808
570-233472-2	B-8 5'	Total/NA	Solid	6010B	581808
570-233472-3	B-2 2 '	Total/NA	Solid	6010B	581808
570-233472-4	B-2 5'	Total/NA	Solid	6010B	581808
570-233472-6	B-4 5'	Total/NA	Solid	6010B	581808
570-233472-7	B-2 10'	Total/NA	Solid	6010B	581808
570-233472-8	B-11 2'	Total/NA	Solid	6010B	581808
570-233472-9	B-11 5'	Total/NA	Solid	6010B	581808
570-233472-10	B-11 10'	Total/NA	Solid	6010B	581808

Analysis Batch: 582554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-1	B-8 2'	Total/NA	Solid	7471A	582070
570-233472-2	B-8 5'	Total/NA	Solid	7471A	582070
570-233472-3	B-2 2 '	Total/NA	Solid	7471A	582070
570-233472-4	B-2 5'	Total/NA	Solid	7471A	582070
570-233472-5	B-4 2'	Total/NA	Solid	7471A	582070

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Metals (Continued)

Analysis Batch: 582554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-6	B-4 5'	Total/NA	Solid	7471A	582070
570-233472-7	B-2 10'	Total/NA	Solid	7471A	582070
570-233472-8	B-11 2'	Total/NA	Solid	7471A	582070
570-233472-9	B-11 5'	Total/NA	Solid	7471A	582070
570-233472-10	B-11 10'	Total/NA	Solid	7471A	582070
MB 570-582070/1-A	Method Blank	Total/NA	Solid	7471A	582070
LCS 570-582070/2-A	Lab Control Sample	Total/NA	Solid	7471A	582070
LCSD 570-582070/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	582070
570-233472-1 MS	B-8 2'	Total/NA	Solid	7471A	582070
570-233472-1 MSD	B-8 2'	Total/NA	Solid	7471A	582070

Lab Chronicle

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Outpateint/110064001

Job ID: 570-233472-1

Client Sample ID: B-8 2'

Lab Sample ID: 570-233472-1

Date Collected: 06/03/25 07:30

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.95 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 18:58	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.02 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:47	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.47 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:31	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-8 5'

Lab Sample ID: 570-233472-2

Date Collected: 06/03/25 08:02

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.00 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 19:20	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			1.97 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:50	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.51 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:29	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-2 2 '

Lab Sample ID: 570-233472-3

Date Collected: 06/03/25 09:11

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 19:42	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.00 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:52	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.53 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:35	RL6Q	EET CAL 4
	Instrument ID: HG8									

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Job ID: 570-233472-1

Client Sample ID: B-2 5'

Lab Sample ID: 570-233472-4

Date Collected: 06/03/25 10:12

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 20:04	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.02 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:54	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.53 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:45	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-4 2'

Lab Sample ID: 570-233472-5

Date Collected: 06/03/25 12:13

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.97 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 20:26	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			1.99 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582225	06/10/25 16:48	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.49 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:47	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-4 5'

Lab Sample ID: 570-233472-6

Date Collected: 06/03/25 12:37

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.00 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 20:48	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.03 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:57	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.49 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:49	RL6Q	EET CAL 4
	Instrument ID: HG8									

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Job ID: 570-233472-1

Client Sample ID: B-2 10'

Date Collected: 06/03/25 11:20
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.01 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 21:10	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			1.97 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 19:59	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.49 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:51	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-11 2'

Date Collected: 06/03/25 14:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.99 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 21:54	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.02 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 20:01	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.52 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:52	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-11 5'

Date Collected: 06/03/25 14:56
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.98 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 22:16	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			2.04 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 20:08	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.47 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:54	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.06 g	10 mL	584269	06/14/25 14:16	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	584650	06/16/25 22:38	NR	EET CAL 4
	Instrument ID: GC50A									
Total/NA	Prep	3050B			1.99 g	50 mL	581808	06/10/25 06:22	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			582459	06/10/25 20:10	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.49 g	50 mL	582070	06/10/25 13:40	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			582554	06/11/25 08:56	RL6Q	EET CAL 4
	Instrument ID: HG8									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233472-1	B-8 2'	Solid	06/03/25 07:30	06/05/25 19:43
570-233472-2	B-8 5'	Solid	06/03/25 08:02	06/05/25 19:43
570-233472-3	B-2 2 '	Solid	06/03/25 09:11	06/05/25 19:43
570-233472-4	B-2 5'	Solid	06/03/25 10:12	06/05/25 19:43
570-233472-5	B-4 2'	Solid	06/03/25 12:13	06/05/25 19:43
570-233472-6	B-4 5'	Solid	06/03/25 12:37	06/05/25 19:43
570-233472-7	B-2 10'	Solid	06/03/25 11:20	06/05/25 19:43
570-233472-8	B-11 2'	Solid	06/03/25 14:34	06/05/25 19:43
570-233472-9	B-11 5'	Solid	06/03/25 14:56	06/05/25 19:43
570-233472-10	B-11 10'	Solid	06/03/25 15:34	06/05/25 19:43

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-233472 Chain of Custody

Loc: 570
233472

LAB USE ONLY
472

CHAIN OF CUSTODY RECORD

DATE: 6/3/25
PAGE: 1 OF 1

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD / Medical Center LA Jolla Outpatient Pavillion
P.O. NO.:
PROJECT CONTACT: Gabriel Smith
SAMPLER(S): (PRINT) Cameron Higman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF
GLOBAL ID:
LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project # 5702541 2

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Title 22 metals
1	B-8 2'	6/3/25	7:30 A	Soil	1				X	X
2	B-8 5'	6/3/25	8:02 A	Soil	1				X	X
3	B-2 2'	6/3/25	9:11 A	Soil	1				X	X
4	B-2 5'	6/3/25	10:17 A	Soil	1				X	X
5	B-4 2'	6/3/25	12:13 P	Soil	1				X	X
6	B-4 5'	6/3/25	12:37 P	Soil	1				X	X
7	B-2 10'	6/3/25	11:20 A	Soil	1				X	X
8	B-11 2'	6/3/25	2:34 P	Soil	1				X	X
9	B-11 5'	6/3/25	2:56 P	Soil	1				X	X
10	B-11 10'	6/3/25	3:34 P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sample Fridge	Date: 6/3/25	Time: 5:00
Relinquished by: (Signature) Sample Fridge	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1506
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1943

5457

IR 92 1.6/2.0

06/02/14 Revised 6/17/2025

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-233472-1

Login Number: 233472

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

Generated 6/30/2025 10:23:12 PM

JOB DESCRIPTION

UCSD-Medical Center La Jolla Outpateint/110064001

JOB NUMBER

570-233472-2

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

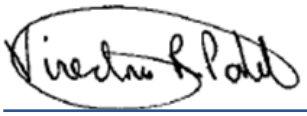
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Virendra Patel, Project Manager I
Virendra.Patel@et.eurofinsus.com
(714)895-5494

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
QC Sample Results 9
QC Association Summary 11
Lab Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Chain of Custody 17
Receipt Checklists 22

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-233472-2 Eurofins Calscience

Job Narrative
570-233472-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2025 7:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Client Sample ID: B-11 5'

Lab Sample ID: 570-233472-9

No Detections.

Client Sample ID: B-11 10'

Lab Sample ID: 570-233472-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.432	J	1.00	0.105	mg/L	1		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Method: SW846 6010B - Metals (ICP) - TCLP

Client Sample ID: B-11 5'
Date Collected: 06/03/25 14:56
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	0.199	mg/L		06/27/25 09:39	06/28/25 02:37	1

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Method: SW846 6010B - Metals (ICP) - STLC Citrate

Client Sample ID: B-11 10'
Date Collected: 06/03/25 15:34
Date Received: 06/05/25 19:43

Lab Sample ID: 570-233472-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.432	J	1.00	0.105	mg/L		06/30/25 10:55	06/30/25 17:33	1

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 570-589108/1-B
Matrix: Solid
Analysis Batch: 590577

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 590221

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	0.199	mg/L		06/27/25 09:39	06/28/25 02:00	1

Lab Sample ID: LCS 570-589108/2-B
Matrix: Solid
Analysis Batch: 590577

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 590221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			2.00	2.238		mg/L		112	80 - 120		

Lab Sample ID: LCSD 570-589108/3-B
Matrix: Solid
Analysis Batch: 590577

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 590221

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			2.00	2.125		mg/L		106	80 - 120	5	20

Lab Sample ID: 570-235790-C-1-D MS
Matrix: Solid
Analysis Batch: 590577

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 590221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND		2.00	2.081		mg/L		104	80 - 140		

Lab Sample ID: 570-235790-C-1-E MSD
Matrix: Solid
Analysis Batch: 590577

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 590221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		2.00	2.177		mg/L		109	80 - 140	5	11

Lab Sample ID: LB 570-589136/1-E
Matrix: Solid
Analysis Batch: 591451

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 591199

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00	0.398	mg/L		06/30/25 10:55	06/30/25 17:24	1
Lead	ND		1.00	0.105	mg/L		06/30/25 10:55	06/30/25 17:24	1

Lab Sample ID: LCS 570-589136/2-E
Matrix: Solid
Analysis Batch: 591451

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate
Prep Batch: 591199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			20.0	19.18		mg/L		96	80 - 120		
Lead			20.0	18.73		mg/L		94	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-589136/3-E
Matrix: Solid
Analysis Batch: 591451

Client Sample ID: Lab Control Sample Dup
Prep Type: STLC Citrate
Prep Batch: 591199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			20.0	19.81		mg/L		99	80 - 120	3	20
Lead			20.0	19.33		mg/L		97	80 - 120	3	20

Lab Sample ID: 570-233472-10 MS
Matrix: Solid
Analysis Batch: 591451

Client Sample ID: B-11 10'
Prep Type: STLC Citrate
Prep Batch: 591199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND		20.0	19.48		mg/L		97	80 - 140		
Lead	0.432	J	20.0	19.21		mg/L		94	84 - 120		

Lab Sample ID: 570-233472-10 MSD
Matrix: Solid
Analysis Batch: 591451

Client Sample ID: B-11 10'
Prep Type: STLC Citrate
Prep Batch: 591199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		20.0	18.99		mg/L		95	80 - 140	3	11
Lead	0.432	J	20.0	18.86		mg/L		92	84 - 120	2	7

QC Association Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Metals

Leach Batch: 589108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-9	B-11 5'	TCLP	Solid	1311	
LB 570-589108/1-B	Method Blank	TCLP	Solid	1311	
LCS 570-589108/2-B	Lab Control Sample	TCLP	Solid	1311	
LCSD 570-589108/3-B	Lab Control Sample Dup	TCLP	Solid	1311	
570-235790-C-1-D MS	Matrix Spike	TCLP	Solid	1311	
570-235790-C-1-E MSD	Matrix Spike Duplicate	TCLP	Solid	1311	

Leach Batch: 589136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-10	B-11 10'	STLC Citrate	Solid	CA WET Citrate	
LB 570-589136/1-E	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 570-589136/2-E	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 570-589136/3-E	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	
570-233472-10 MS	B-11 10'	STLC Citrate	Solid	CA WET Citrate	
570-233472-10 MSD	B-11 10'	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 590221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-9	B-11 5'	TCLP	Solid	3010A	589108
LB 570-589108/1-B	Method Blank	TCLP	Solid	3010A	589108
LCS 570-589108/2-B	Lab Control Sample	TCLP	Solid	3010A	589108
LCSD 570-589108/3-B	Lab Control Sample Dup	TCLP	Solid	3010A	589108
570-235790-C-1-D MS	Matrix Spike	TCLP	Solid	3010A	589108
570-235790-C-1-E MSD	Matrix Spike Duplicate	TCLP	Solid	3010A	589108

Analysis Batch: 590577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-9	B-11 5'	TCLP	Solid	6010B	590221
LB 570-589108/1-B	Method Blank	TCLP	Solid	6010B	590221
LCS 570-589108/2-B	Lab Control Sample	TCLP	Solid	6010B	590221
LCSD 570-589108/3-B	Lab Control Sample Dup	TCLP	Solid	6010B	590221
570-235790-C-1-D MS	Matrix Spike	TCLP	Solid	6010B	590221
570-235790-C-1-E MSD	Matrix Spike Duplicate	TCLP	Solid	6010B	590221

Prep Batch: 591199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-10	B-11 10'	STLC Citrate	Solid	Dilution	589136
LB 570-589136/1-E	Method Blank	STLC Citrate	Solid	Dilution	589136
LCS 570-589136/2-E	Lab Control Sample	STLC Citrate	Solid	Dilution	589136
LCSD 570-589136/3-E	Lab Control Sample Dup	STLC Citrate	Solid	Dilution	589136
570-233472-10 MS	B-11 10'	STLC Citrate	Solid	Dilution	589136
570-233472-10 MSD	B-11 10'	STLC Citrate	Solid	Dilution	589136

Analysis Batch: 591451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-10	B-11 10'	STLC Citrate	Solid	6010B	591199
LB 570-589136/1-E	Method Blank	STLC Citrate	Solid	6010B	591199
LCS 570-589136/2-E	Lab Control Sample	STLC Citrate	Solid	6010B	591199
LCSD 570-589136/3-E	Lab Control Sample Dup	STLC Citrate	Solid	6010B	591199
570-233472-10 MS	B-11 10'	STLC Citrate	Solid	6010B	591199

Client: Ninyo & Moore
Job ID: 570-233472-2
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Metals (Continued)

Analysis Batch: 591451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-233472-10 MSD	B-11 10'	STLC Citrate	Solid	6010B	591199

Lab Chronicle

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Client Sample ID: B-11 5'

Lab Sample ID: 570-233472-9

Date Collected: 06/03/25 14:56

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.00 g	2000 mL	589108	06/26/25 07:19	D2TZ	EET CAL 4
TCLP	Prep	3010A			5 mL	50 mL	590221	06/27/25 09:39	D2TZ	EET CAL 4
TCLP	Analysis	6010B		1			590577	06/28/25 02:37	UFLE	EET CAL 4
	Instrument ID: ICP11									

Client Sample ID: B-11 10'

Lab Sample ID: 570-233472-10

Date Collected: 06/03/25 15:34

Matrix: Solid

Date Received: 06/05/25 19:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.10 g	500 mL	589136	06/26/25 13:00	D2TZ	EET CAL 4
STLC Citrate	Prep	Dilution			0.6 mL	12 mL	591199	06/30/25 10:55	UFLE	EET CAL 4
STLC Citrate	Analysis	6010B		1			591451	06/30/25 17:33	P1R	EET CAL 4
	Instrument ID: ICP11									

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Job ID: 570-233472-2
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET CAL 4
1311	TCLP Extraction	SW846	EET CAL 4
3010A	Preparation, Total Metals	SW846	EET CAL 4
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	EET CAL 4
Dilution	Preparation / Dilution Process	None	EET CAL 4

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Project/Site: UCSD-Medical Center La Jolla
Outpateint/110064001

Job ID: 570-233472-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-233472-9	B-11 5'	Solid	06/03/25 14:56	06/05/25 19:43
570-233472-10	B-11 10'	Solid	06/03/25 15:34	06/05/25 19:43

Virendra Patel

From: Nathan Diem <ndiem@ninyoandmoore.com>
Sent: Monday, June 23, 2025 10:05 AM
To: Virendra Patel
Cc: Gabriel Smith PE, GE; Travis Meier QISP
Subject: UCSD-Medical Center La Jolla Outpatient - ECI 57025412 - STLC and TCLP
Attachments: J233471-1 UDS Level 2 Report Final Report.pdf; J233472-1 UDS Level 2 Report Final Report.pdf

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Hi Virendra,

For the attached reports please run the following:

STLC:

- B-11 10’ – lead
- B-7 10' – lead

TCLP and STLC

- B-11 5' – arsenic

Thanks,

Nathan Diem
Senior Geologist
T.: + 1 858 576 1000 x 11242 | M.: + 1 510 584 7217
ndiem@ninyoandmoore.com

NINYO & MOORE, A SOCOTEC COMPANY
5710 Ruffin Road
San Dieg, CA 92123
www.ninyoandmoore.com
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Virendra Patel

From: Nathan Diem <ndiem@ninyoandmoore.com>
Sent: Wednesday, June 25, 2025 9:42 AM
To: Virendra Patel
Subject: RE: UCSD-Medical Center La Jolla Outpatient - ECI 57025412 - STLC and TCLP

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Thanks for the heads up. Please run the TCLP. Please let me know what container was provided for these samples? I did not see that on the COC but I can ask our team that collected the samples.

Nathan Diem
Senior Geologist
T.: + 1 858 576 1000 x 11242 | M.: + 1 510 584 7217
ndiem@ninyoandmoore.com

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From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Wednesday, June 25, 2025 9:21 AM
To: Nathan Diem <ndiem@ninyoandmoore.com>
Subject: RE: UCSD-Medical Center La Jolla Outpatient - ECI 57025412 - STLC and TCLP
Importance: High

Nathan –

Good morning. Looks like we have run short on sample mass for the following sample, we only have 103 grams available?

B-11 5' – TCLP and STLC Arsenic

We can do one of the above with the 105 gram of material on hand?

Please advise on how to proceed. Thank you!

Kind Regards,

Virendra Patel
Client Services Manager – Operations /
Senior Project Manager
(He/Him/His)

Eurofins Environment Testing Southwest - Calscience (USA)
2841 Dow Avenue, Suite 100 • Tustin, CA • 92780
Direct: 657-210-6327 • Mobile: 714-887-9901
Email: Virendra.Patel@ET.EurofinsUS.com

www.EurofinsUS.com/Env • LinkedIn



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From: Nathan Diem <ndiem@ninyoandmoore.com>
Sent: Monday, June 23, 2025 10:05 AM
To: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Cc: Gabriel Smith PE, GE <gsmith@ninyoandmoore.com>; Travis Meier QISP <tmeier@ninyoandmoore.com>
Subject: UCSD-Medical Center La Jolla Outpatient - ECI 57025412 - STLC and TCLP

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Virendra,

For the attached reports please run the following:

STLC:

- B-11 10’ – lead
- B-7 10' – lead

TCLP and STLC

- B-11 5' – arsenic

Thanks,

Nathan Diem
Senior Geologist
T.: + 1 858 576 1000 x 11242 | M.: + 1 510 584 7217
ndiem@ninyoandmoore.com

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eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-233472 Chain of Custody

Loc: 570
233472

ONLY
472

CHAIN OF CUSTODY RECORD

DATE: 6/3/25
PAGE: 1 OF 1

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 ext 11228 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD / Medical Center LA Jolla Outpatient Pavillion
P.O. NO.:
PROJECT CONTACT: Gabriel Smith
SAMPLER(S): (PRINT) Cameron Higman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF
GLOBAL ID:
LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project # 5702541 2

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH C6-C44	Title 22 metals
1	B-8 2'	6/3/25	7:30 A	Soil	1				X	X
2	B-8 5'	6/3/25	8:02 A	Soil	1				X	X
3	B-2 2'	6/3/25	9:11 A	Soil	1				X	X
4	B-2 5'	6/3/25	10:17 A	Soil	1				X	X
5	B-4 2'	6/3/25	12:13 P	Soil	1				X	X
6	B-4 5'	6/3/25	12:37 P	Soil	1				X	X
7	B-2 10'	6/3/25	11:20 A	Soil	1				X	X
8	B-11 2'	6/3/25	2:34 P	Soil	1				X	X
9	B-11 5'	6/3/25	2:56 P	Soil	1				X	X
10	B-11 10'	6/3/25	3:34 P	Soil	1				X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sample Fridge	Date: 6/3/25	Time: 5:00
Relinquished by: (Signature) Sample Fridge	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1506
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 6-5-25	Time: 1943

5457

IR 92 1.6/2.0 06/02/14 Revised

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-233472-2

Login Number: 233472

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Sunny

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gabriel Smith
Ninyo & Moore
5710 Ruffin Road
San Diego, California 92123

Generated 6/23/2025 7:03:25 AM

JOB DESCRIPTION

UCSD - Medical Center Center La Jolla Outpatient Pavilion 110064001-PRELOGGED

JOB NUMBER

570-234783-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

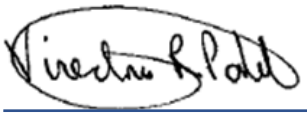
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



Generated
6/23/2025 7:03:25 AM

Authorized for release by
Virendra Patel, Project Manager I
Virendra.Patel@et.eurofinsus.com
(714)895-5494

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 8
Surrogate Summary 13
QC Sample Results 14
QC Association Summary 19
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
570-234783-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/16/2025 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

Diesel Range Organics
Method 8015B_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 570-584944 and analytical batch 570-585002 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015B_DRO: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-584944 and analytical batch 570-585002 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-585075 and analytical batch 570-585373 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-586216 and analytical batch 570-586470 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-586223 and analytical batch 570-586469 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Client Sample ID: B-4-10'
Lab Sample ID: 570-234783-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C29-C32	4.8	J	5.0	4.5	mg/Kg	1		8015B	Total/NA
C33-C36	4.8	J	5.0	4.5	mg/Kg	1		8015B	Total/NA
C37-C40	5.6		5.0	4.5	mg/Kg	1		8015B	Total/NA
C41-C44	6.7		5.0	4.5	mg/Kg	1		8015B	Total/NA
C6-C44	28		25	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	5.1		5.0	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	29.4		3.03	1.41	mg/Kg	5		6010B	Total/NA
Barium	80.7		3.03	0.143	mg/Kg	5		6010B	Total/NA
Beryllium	0.492	J	0.505	0.0697	mg/Kg	5		6010B	Total/NA
Cobalt	2.69		1.01	0.208	mg/Kg	5		6010B	Total/NA
Chromium	9.43		1.01	0.188	mg/Kg	5		6010B	Total/NA
Copper	9.90		2.02	0.968	mg/Kg	5		6010B	Total/NA
Molybdenum	0.644	J	2.02	0.520	mg/Kg	5		6010B	Total/NA
Nickel	3.93		2.02	0.366	mg/Kg	5		6010B	Total/NA
Vanadium	25.0		1.01	0.170	mg/Kg	5		6010B	Total/NA
Zinc	33.8		5.05	1.17	mg/Kg	5		6010B	Total/NA
Lead	5.59		2.02	0.413	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-8-10'
Lab Sample ID: 570-234783-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	13	J	25	4.6	mg/Kg	1		8015B	Total/NA
Arsenic	24.1		3.00	1.39	mg/Kg	5		6010B	Total/NA
Barium	129		3.00	0.142	mg/Kg	5		6010B	Total/NA
Beryllium	1.50		0.500	0.0690	mg/Kg	5		6010B	Total/NA
Cobalt	18.3		1.00	0.206	mg/Kg	5		6010B	Total/NA
Chromium	12.0		1.00	0.186	mg/Kg	5		6010B	Total/NA
Copper	17.5		2.00	0.958	mg/Kg	5		6010B	Total/NA
Molybdenum	0.525	J	2.00	0.515	mg/Kg	5		6010B	Total/NA
Nickel	10.3		2.00	0.362	mg/Kg	5		6010B	Total/NA
Vanadium	34.1		1.00	0.168	mg/Kg	5		6010B	Total/NA
Zinc	55.9		5.00	1.16	mg/Kg	5		6010B	Total/NA
Lead	11.0		2.00	0.409	mg/Kg	5		6010B	Total/NA

Client Sample ID: B-11-15'
Lab Sample ID: 570-234783-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	9.9	J	25	4.6	mg/Kg	1		8015B	Total/NA
Silver	0.187	J	1.49	0.143	mg/Kg	5		6010B	Total/NA
Arsenic	11.4		2.99	1.38	mg/Kg	5		6010B	Total/NA
Barium	29.7		2.99	0.141	mg/Kg	5		6010B	Total/NA
Beryllium	1.43		0.498	0.0687	mg/Kg	5		6010B	Total/NA
Cobalt	4.60		0.995	0.205	mg/Kg	5		6010B	Total/NA
Chromium	17.8		0.995	0.185	mg/Kg	5		6010B	Total/NA
Copper	19.3		1.99	0.953	mg/Kg	5		6010B	Total/NA
Nickel	9.10		1.99	0.360	mg/Kg	5		6010B	Total/NA
Vanadium	28.8		0.995	0.167	mg/Kg	5		6010B	Total/NA
Zinc	51.4		4.98	1.15	mg/Kg	5		6010B	Total/NA
Lead	7.13		1.99	0.407	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Client Sample ID: B-13-10'
Lab Sample ID: 570-234783-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	11	J H	25	4.5	mg/Kg	1		8015B	Total/NA
Arsenic	2.64	J	3.05	1.41	mg/Kg	5		6010B	Total/NA
Barium	17.8		3.05	0.144	mg/Kg	5		6010B	Total/NA
Beryllium	0.419	J	0.508	0.0701	mg/Kg	5		6010B	Total/NA
Cobalt	4.87		1.02	0.209	mg/Kg	5		6010B	Total/NA
Chromium	7.09		1.02	0.189	mg/Kg	5		6010B	Total/NA
Copper	5.72		2.03	0.973	mg/Kg	5		6010B	Total/NA
Nickel	4.07		2.03	0.368	mg/Kg	5		6010B	Total/NA
Vanadium	15.0		1.02	0.171	mg/Kg	5		6010B	Total/NA
Zinc	27.9		5.08	1.17	mg/Kg	5		6010B	Total/NA
Lead	3.30		2.03	0.415	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-4-10'
Date Collected: 06/03/25 13:03
Date Received: 06/16/25 16:00

Lab Sample ID: 570-234783-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C7	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C8	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C9-C10	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C11-C12	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C13-C14	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C15-C16	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C17-C18	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C19-C20	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C21-C22	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C23-C24	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C25-C28	ND		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C29-C32	**4.8**	**J**	5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C33-C36	**4.8**	**J**	5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C37-C40	**5.6**		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C41-C44	**6.7**		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
C6-C44	**28**		25	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1
Diesel Range Organics [C10-C28]	**5.1**		5.0	4.5	mg/Kg		06/17/25 11:38	06/18/25 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*109*		*29 - 160*	*06/17/25 11:38*	*06/18/25 13:01*	*1*

Client Sample ID: B-8-10'
Date Collected: 06/03/25 08:32
Date Received: 06/16/25 16:00

Lab Sample ID: 570-234783-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C7	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C8	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C9-C10	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C11-C12	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C13-C14	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C15-C16	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C17-C18	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C19-C20	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C21-C22	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C23-C24	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C25-C28	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C29-C32	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C33-C36	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C37-C40	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C41-C44	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
C6-C44	**13**	**J**	25	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*106*		*29 - 160*	*06/17/25 11:38*	*06/18/25 13:24*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B-11-15'
Date Collected: 06/03/25 16:00
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C7	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C8	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C9-C10	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C11-C12	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C13-C14	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C15-C16	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C17-C18	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C19-C20	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C21-C22	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C23-C24	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C25-C28	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C29-C32	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C33-C36	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C37-C40	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C41-C44	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
C6-C44	**9.9**	**J**	25	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1
Diesel Range Organics [C10-C28]	ND		5.1	4.6	mg/Kg		06/17/25 11:38	06/18/25 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*113*		*29 - 160*	*06/17/25 11:38*	*06/18/25 13:46*	*1*

Client Sample ID: B-13-10'
Date Collected: 06/02/25 14:54
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C7	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C8	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C9-C10	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C11-C12	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C13-C14	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C15-C16	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C17-C18	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C19-C20	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C21-C22	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C23-C24	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C25-C28	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C29-C32	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C33-C36	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C37-C40	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C41-C44	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
C6-C44	**11**	**J H**	25	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1
Diesel Range Organics [C10-C28]	ND	H	4.9	4.5	mg/Kg		06/17/25 11:38	06/18/25 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*116*		*29 - 160*	*06/17/25 11:38*	*06/18/25 14:07*	*1*

Method: SW846 6010B - Metals (ICP)

Client Sample ID: B-4-10'
Date Collected: 06/03/25 13:03
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.145	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Arsenic	**29.4**		3.03	1.41	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Barium	**80.7**		3.03	0.143	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Beryllium	**0.492**	**J**	0.505	0.0697	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Cadmium	ND		0.505	0.166	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Cobalt	**2.69**		1.01	0.208	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Chromium	**9.43**		1.01	0.188	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Copper	**9.90**		2.02	0.968	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Molybdenum	**0.644**	**J**	2.02	0.520	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Nickel	**3.93**		2.02	0.366	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Antimony	ND		10.1	2.89	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Selenium	ND		3.03	1.23	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Thallium	ND		10.1	2.13	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Vanadium	**25.0**		1.01	0.170	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Zinc	**33.8**		5.05	1.17	mg/Kg		06/17/25 06:21	06/17/25 14:44	5
Lead	**5.59**		2.02	0.413	mg/Kg		06/17/25 06:21	06/17/25 14:44	5

Client Sample ID: B-8-10'
Date Collected: 06/03/25 08:32
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.50	0.144	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Arsenic	**24.1**		3.00	1.39	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Barium	**129**		3.00	0.142	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Beryllium	**1.50**		0.500	0.0690	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Cadmium	ND		0.500	0.164	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Cobalt	**18.3**		1.00	0.206	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Chromium	**12.0**		1.00	0.186	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Copper	**17.5**		2.00	0.958	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Molybdenum	**0.525**	**J**	2.00	0.515	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Nickel	**10.3**		2.00	0.362	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Antimony	ND		10.0	2.86	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Selenium	ND		3.00	1.22	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Thallium	ND		10.0	2.11	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Vanadium	**34.1**		1.00	0.168	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Zinc	**55.9**		5.00	1.16	mg/Kg		06/17/25 06:21	06/17/25 14:46	5
Lead	**11.0**		2.00	0.409	mg/Kg		06/17/25 06:21	06/17/25 14:46	5

Client Sample ID: B-11-15'
Date Collected: 06/03/25 16:00
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.187**	**J**	1.49	0.143	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Arsenic	**11.4**		2.99	1.38	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Barium	**29.7**		2.99	0.141	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Beryllium	**1.43**		0.498	0.0687	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Cadmium	ND		0.498	0.163	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Cobalt	**4.60**		0.995	0.205	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Chromium	**17.8**		0.995	0.185	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Copper	**19.3**		1.99	0.953	mg/Kg		06/17/25 06:21	06/17/25 14:49	5

Method: SW846 6010B - Metals (ICP) (Continued)

Client Sample ID: B-11-15'
Date Collected: 06/03/25 16:00
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		1.99	0.512	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Nickel	**9.10**		1.99	0.360	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Antimony	ND		9.95	2.84	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Selenium	ND		2.99	1.22	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Thallium	ND		9.95	2.10	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Vanadium	**28.8**		0.995	0.167	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Zinc	**51.4**		4.98	1.15	mg/Kg		06/17/25 06:21	06/17/25 14:49	5
Lead	**7.13**		1.99	0.407	mg/Kg		06/17/25 06:21	06/17/25 14:49	5

Client Sample ID: B-13-10'
Date Collected: 06/02/25 14:54
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.52	0.146	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Arsenic	**2.64**	**J**	3.05	1.41	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Barium	**17.8**		3.05	0.144	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Beryllium	**0.419**	**J**	0.508	0.0701	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Cadmium	ND		0.508	0.166	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Cobalt	**4.87**		1.02	0.209	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Chromium	**7.09**		1.02	0.189	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Copper	**5.72**		2.03	0.973	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Molybdenum	ND		2.03	0.523	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Nickel	**4.07**		2.03	0.368	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Antimony	ND		10.2	2.90	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Selenium	ND		3.05	1.24	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Thallium	ND		10.2	2.14	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Vanadium	**15.0**		1.02	0.171	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Zinc	**27.9**		5.08	1.17	mg/Kg		06/17/25 06:21	06/17/25 14:51	5
Lead	**3.30**		2.03	0.415	mg/Kg		06/17/25 06:21	06/17/25 14:51	5

Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: B-4-10'
Date Collected: 06/03/25 13:03
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0230	mg/Kg		06/19/25 01:23	06/19/25 12:50	1

Client Sample ID: B-8-10'
Date Collected: 06/03/25 08:32
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0868	0.0240	mg/Kg		06/19/25 01:23	06/19/25 12:52	1

Client Sample ID: B-11-15'
Date Collected: 06/03/25 16:00
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0786	0.0217	mg/Kg		06/19/25 01:44	06/20/25 10:02	1

Client Sample ID: B-13-10'
Date Collected: 06/02/25 14:54
Date Received: 06/16/25 16:00
Lab Sample ID: 570-234783-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0221	mg/Kg		06/19/25 01:44	06/20/25 10:04	1

Surrogate Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OTCSN1 (29-160)							
570-234585-A-1-C MS	Matrix Spike	126							
570-234585-A-1-D MSD	Matrix Spike Duplicate	124							
570-234783-1	B-4-10'	109							
570-234783-2	B-8-10'	106							
570-234783-3	B-11-15'	113							
570-234783-4	B-13-10'	116							
LCS 570-584944/2-A	Lab Control Sample	115							
LCSD 570-584944/3-A	Lab Control Sample Dup	111							
MB 570-584944/1-A	Method Blank	101							

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-584944/1-A
Matrix: Solid
Analysis Batch: 585603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C7	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C8	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C9-C10	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C11-C12	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C13-C14	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C15-C16	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C17-C18	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C19-C20	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C21-C22	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C23-C24	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C25-C28	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C29-C32	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C33-C36	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C37-C40	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C41-C44	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
C6-C44	ND		25	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		06/16/25 18:23	06/18/25 05:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*29 - 160*	*06/16/25 18:23*	*06/18/25 05:27*	*1*

Lab Sample ID: LCS 570-584944/2-A
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584944

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	481.2		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*115*		*29 - 160*

Lab Sample ID: LCSD 570-584944/3-A
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584944

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	465.0		mg/Kg		116	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*29 - 160*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-234585-A-1-C MS
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 584944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2200	F2	399	2062	E 4	mg/Kg		-38	43 - 165

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*126*		*29 - 160*

Lab Sample ID: 570-234585-A-1-D MSD
Matrix: Solid
Analysis Batch: 585002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 584944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2200	F2	398	3460	E 4 F2	mg/Kg		313	43 - 165	51	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*124*		*29 - 160*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-585075/1-B
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.51	0.145	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Arsenic	ND		3.02	1.40	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Barium	ND		3.02	0.143	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Beryllium	ND		0.503	0.0693	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Cadmium	ND		0.503	0.165	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Cobalt	ND		1.01	0.207	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Chromium	ND		1.01	0.187	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Copper	ND		2.01	0.963	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Molybdenum	ND		2.01	0.518	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Nickel	ND		2.01	0.364	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Antimony	ND		10.1	2.87	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Selenium	ND		3.02	1.23	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Thallium	ND		10.1	2.12	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Vanadium	ND		1.01	0.169	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Zinc	ND		5.03	1.16	mg/Kg		06/17/25 06:21	06/17/25 14:04	5
Lead	ND		2.01	0.411	mg/Kg		06/17/25 06:21	06/17/25 14:04	5

Lab Sample ID: LCS 570-585075/2-B
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	25.1	23.24		mg/Kg		93	80 - 120
Arsenic	50.3	46.01		mg/Kg		92	80 - 120
Barium	50.3	47.20		mg/Kg		94	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-585075/2-B
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.3	46.37		mg/Kg		92	80 - 120
Cadmium	50.3	45.84		mg/Kg		91	80 - 120
Cobalt	50.3	46.77		mg/Kg		93	80 - 120
Chromium	50.3	47.71		mg/Kg		95	80 - 120
Copper	50.3	47.34		mg/Kg		94	80 - 120
Molybdenum	50.3	45.82		mg/Kg		91	80 - 120
Nickel	50.3	47.61		mg/Kg		95	80 - 120
Antimony	50.3	45.24		mg/Kg		90	80 - 120
Selenium	50.3	43.74		mg/Kg		87	80 - 120
Thallium	50.3	45.77		mg/Kg		91	80 - 120
Vanadium	50.3	46.22		mg/Kg		92	80 - 120
Zinc	50.3	46.31		mg/Kg		92	80 - 120
Lead	50.3	47.49		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 570-585075/3-B
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	25.1	23.27		mg/Kg		93	80 - 120	0	20
Arsenic	50.3	45.20		mg/Kg		90	80 - 120	2	20
Barium	50.3	47.39		mg/Kg		94	80 - 120	0	20
Beryllium	50.3	46.52		mg/Kg		93	80 - 120	0	20
Cadmium	50.3	46.11		mg/Kg		92	80 - 120	1	20
Cobalt	50.3	47.01		mg/Kg		94	80 - 120	1	20
Chromium	50.3	47.73		mg/Kg		95	80 - 120	0	20
Copper	50.3	47.63		mg/Kg		95	80 - 120	1	20
Molybdenum	50.3	47.11		mg/Kg		94	80 - 120	3	20
Nickel	50.3	47.50		mg/Kg		95	80 - 120	0	20
Antimony	50.3	46.60		mg/Kg		93	80 - 120	3	20
Selenium	50.3	43.25		mg/Kg		86	80 - 120	1	20
Thallium	50.3	46.21		mg/Kg		92	80 - 120	1	20
Vanadium	50.3	46.26		mg/Kg		92	80 - 120	0	20
Zinc	50.3	46.53		mg/Kg		93	80 - 120	0	20
Lead	50.3	47.15		mg/Kg		94	80 - 120	1	20

Lab Sample ID: 570-234204-A-8-C MS
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		25.3	23.54		mg/Kg		93	75 - 125
Arsenic	1.52	J	50.5	47.63		mg/Kg		91	75 - 125
Barium	23.5		50.5	72.92		mg/Kg		98	75 - 125
Beryllium	0.126	J	50.5	48.03		mg/Kg		95	75 - 125
Cadmium	ND		50.5	45.83		mg/Kg		91	75 - 125
Cobalt	2.37		50.5	48.13		mg/Kg		91	75 - 125
Chromium	5.68		50.5	54.02		mg/Kg		96	75 - 125
Copper	5.89		50.5	53.78		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-234204-A-8-C MS
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	ND		50.5	47.10		mg/Kg		93	75 - 125
Nickel	3.98		50.5	50.35		mg/Kg		92	75 - 125
Antimony	ND	F1	50.5	32.40	F1	mg/Kg		64	75 - 125
Selenium	ND		50.5	44.70		mg/Kg		88	75 - 125
Thallium	ND		50.5	45.86		mg/Kg		91	75 - 125
Vanadium	12.9		50.5	60.15		mg/Kg		94	75 - 125
Zinc	19.4		50.5	65.15		mg/Kg		91	75 - 125
Lead	2.85		50.5	49.10		mg/Kg		92	75 - 125

Lab Sample ID: 570-234204-A-8-D MSD
Matrix: Solid
Analysis Batch: 585373

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 585075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		25.1	22.65		mg/Kg		90	75 - 125	4	20
Arsenic	1.52	J	50.3	45.40		mg/Kg		87	75 - 125	5	20
Barium	23.5		50.3	69.25		mg/Kg		91	75 - 125	5	20
Beryllium	0.126	J	50.3	45.80		mg/Kg		91	75 - 125	5	20
Cadmium	ND		50.3	44.16		mg/Kg		88	75 - 125	4	20
Cobalt	2.37		50.3	46.13		mg/Kg		87	75 - 125	4	20
Chromium	5.68		50.3	51.76		mg/Kg		92	75 - 125	4	20
Copper	5.89		50.3	51.97		mg/Kg		92	75 - 125	3	20
Molybdenum	ND		50.3	45.53		mg/Kg		91	75 - 125	3	20
Nickel	3.98		50.3	48.14		mg/Kg		88	75 - 125	4	20
Antimony	ND	F1	50.3	33.05	F1	mg/Kg		66	75 - 125	2	20
Selenium	ND		50.3	44.02		mg/Kg		88	75 - 125	2	20
Thallium	ND		50.3	43.62		mg/Kg		87	75 - 125	5	20
Vanadium	12.9		50.3	57.30		mg/Kg		88	75 - 125	5	20
Zinc	19.4		50.3	62.30		mg/Kg		85	75 - 125	4	20
Lead	2.85		50.3	47.58		mg/Kg		89	75 - 125	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-586216/1-A
Matrix: Solid
Analysis Batch: 586470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0245	mg/Kg		06/19/25 01:23	06/19/25 11:56	1

Lab Sample ID: LCS 570-586216/2-A
Matrix: Solid
Analysis Batch: 586470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.408	0.4224		mg/Kg		103	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-586216/3-A
Matrix: Solid
Analysis Batch: 586470
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 586216

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.417	0.4518		mg/Kg		108	80 - 120	7	20

Lab Sample ID: 570-235168-F-5-B MS
Matrix: Solid
Analysis Batch: 586470
Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 586216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.268	F1	0.377	0.5097	F1	mg/Kg		64	75 - 125		

Lab Sample ID: 570-235168-F-5-C MSD
Matrix: Solid
Analysis Batch: 586470
Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 586216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.268	F1	0.377	0.6260		mg/Kg		95	75 - 125	20	20

Lab Sample ID: MB 570-586223/1-A
Matrix: Solid
Analysis Batch: 586469
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0225	mg/Kg		06/19/25 01:44	06/19/25 15:56	1

Lab Sample ID: LCS 570-586223/2-A
Matrix: Solid
Analysis Batch: 586469
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.377	0.4065		mg/Kg		108	80 - 120		

Lab Sample ID: LCSD 570-586223/3-A
Matrix: Solid
Analysis Batch: 586469
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 586223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.392	0.3812		mg/Kg		97	80 - 120	6	20

Lab Sample ID: 570-234737-A-1-B MS
Matrix: Solid
Analysis Batch: 586469
Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 586223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND	F2	0.392	0.3323		mg/Kg		85	75 - 125		

Lab Sample ID: 570-234737-A-1-C MSD
Matrix: Solid
Analysis Batch: 586469
Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 586223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F2	0.377	0.4303	F2	mg/Kg		114	75 - 125	26	20

GC Semi VOA

Prep Batch: 584944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	3550C	
570-234783-2	B-8-10'	Total/NA	Solid	3550C	
570-234783-3	B-11-15'	Total/NA	Solid	3550C	
570-234783-4	B-13-10'	Total/NA	Solid	3550C	
MB 570-584944/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-584944/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-584944/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-234585-A-1-C MS	Matrix Spike	Total/NA	Solid	3550C	
570-234585-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 585002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-584944/2-A	Lab Control Sample	Total/NA	Solid	8015B	584944
LCSD 570-584944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	584944
570-234585-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B	584944
570-234585-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	584944

Analysis Batch: 585603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	8015B	584944
570-234783-2	B-8-10'	Total/NA	Solid	8015B	584944
570-234783-3	B-11-15'	Total/NA	Solid	8015B	584944
570-234783-4	B-13-10'	Total/NA	Solid	8015B	584944
MB 570-584944/1-A	Method Blank	Total/NA	Solid	8015B	584944

Metals

Prep Batch: 585075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	3050B	
570-234783-2	B-8-10'	Total/NA	Solid	3050B	
570-234783-3	B-11-15'	Total/NA	Solid	3050B	
570-234783-4	B-13-10'	Total/NA	Solid	3050B	
MB 570-585075/1-B	Method Blank	Total/NA	Solid	3050B	
LCS 570-585075/2-B	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-585075/3-B	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-234204-A-8-C MS	Matrix Spike	Total/NA	Solid	3050B	
570-234204-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 585373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	6010B	585075
570-234783-2	B-8-10'	Total/NA	Solid	6010B	585075
570-234783-3	B-11-15'	Total/NA	Solid	6010B	585075
570-234783-4	B-13-10'	Total/NA	Solid	6010B	585075
MB 570-585075/1-B	Method Blank	Total/NA	Solid	6010B	585075
LCS 570-585075/2-B	Lab Control Sample	Total/NA	Solid	6010B	585075
LCSD 570-585075/3-B	Lab Control Sample Dup	Total/NA	Solid	6010B	585075
570-234204-A-8-C MS	Matrix Spike	Total/NA	Solid	6010B	585075
570-234204-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	585075

QC Association Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Metals

Prep Batch: 586216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	7471A	
570-234783-2	B-8-10'	Total/NA	Solid	7471A	
MB 570-586216/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-586216/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-586216/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-235168-F-5-B MS	Matrix Spike	Total/NA	Solid	7471A	
570-235168-F-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 586223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-3	B-11-15'	Total/NA	Solid	7471A	
570-234783-4	B-13-10'	Total/NA	Solid	7471A	
MB 570-586223/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-586223/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-586223/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-234737-A-1-B MS	Matrix Spike	Total/NA	Solid	7471A	
570-234737-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 586469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-586223/1-A	Method Blank	Total/NA	Solid	7471A	586223
LCS 570-586223/2-A	Lab Control Sample	Total/NA	Solid	7471A	586223
LCSD 570-586223/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	586223
570-234737-A-1-B MS	Matrix Spike	Total/NA	Solid	7471A	586223
570-234737-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	586223

Analysis Batch: 586470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-1	B-4-10'	Total/NA	Solid	7471A	586216
570-234783-2	B-8-10'	Total/NA	Solid	7471A	586216
MB 570-586216/1-A	Method Blank	Total/NA	Solid	7471A	586216
LCS 570-586216/2-A	Lab Control Sample	Total/NA	Solid	7471A	586216
LCSD 570-586216/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	586216
570-235168-F-5-B MS	Matrix Spike	Total/NA	Solid	7471A	586216
570-235168-F-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	586216

Analysis Batch: 587126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-234783-3	B-11-15'	Total/NA	Solid	7471A	586223
570-234783-4	B-13-10'	Total/NA	Solid	7471A	586223

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Client Sample ID: B-4-10'
Lab Sample ID: 570-234783-1
Date Collected: 06/03/25 13:03
Matrix: Solid
Date Received: 06/16/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.07 g	10 mL	584944	06/17/25 11:38	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585603	06/18/25 13:01	NR	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.98 g	50 mL	585075	06/17/25 06:21	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			585373	06/17/25 14:44	VZ0K	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.50 g	50 mL	586216	06/19/25 01:23	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			586470	06/19/25 12:50	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-8-10'
Lab Sample ID: 570-234783-2
Date Collected: 06/03/25 08:32
Matrix: Solid
Date Received: 06/16/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	584944	06/17/25 11:38	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585603	06/18/25 13:24	NR	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.00 g	50 mL	585075	06/17/25 06:21	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			585373	06/17/25 14:46	VZ0K	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.48 g	50 mL	586216	06/19/25 01:23	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			586470	06/19/25 12:52	RL6Q	EET CAL 4
	Instrument ID: HG8									

Client Sample ID: B-11-15'
Lab Sample ID: 570-234783-3
Date Collected: 06/03/25 16:00
Matrix: Solid
Date Received: 06/16/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			9.90 g	10 mL	584944	06/17/25 11:38	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585603	06/18/25 13:46	NR	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			2.01 g	50 mL	585075	06/17/25 06:21	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			585373	06/17/25 14:49	VZ0K	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.53 g	50 mL	586223	06/19/25 01:44	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			587126	06/20/25 10:02	RL6Q	EET CAL 4
	Instrument ID: HG8									

Lab Chronicle

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Client Sample ID: B-13-10'
Lab Sample ID: 570-234783-4
Date Collected: 06/02/25 14:54
Matrix: Solid
Date Received: 06/16/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.12 g	10 mL	584944	06/17/25 11:38	S8LD	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	585603	06/18/25 14:07	NR	EET CAL 4
	Instrument ID: GC48									
Total/NA	Prep	3050B			1.97 g	50 mL	585075	06/17/25 06:21	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			585373	06/17/25 14:51	VZ0K	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	7471A			0.52 g	50 mL	586223	06/19/25 01:44	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			587126	06/20/25 10:04	RL6Q	EET CAL 4
	Instrument ID: HG8									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Ninyo & Moore
Job ID: 570-234783-1
Project/Site: UCSD - Medical Center Center La Jolla Outpatient
SDG: Pavilion 110064001-PRELOGGED

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Ninyo & Moore
Project/Site: UCSD - Medical Center Center La Jolla Outpatient

Job ID: 570-234783-1
SDG: Pavilion 110064001-PRELOGGED

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-234783-1	B-4-10'	Solid	06/03/25 13:03	06/16/25 16:00
570-234783-2	B-8-10'	Solid	06/03/25 08:32	06/16/25 16:00
570-234783-3	B-11-15'	Solid	06/03/25 16:00	06/16/25 16:00
570-234783-4	B-13-10'	Solid	06/02/25 14:54	06/16/25 16:00

Loc: 570
234783

eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY

WO # / LAB USE ONLY:

DATE: 6/16/25

PAGE: 1 OF 1

LABORATORY CLIENT: Ninyo and Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP:

TEL: (858) 576-1000 E-MAIL: gsmith@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: 110064001 UCSD Medical Center La Jolla Outpatien Pavilion

P.O. NO.: ~~409985002~~

PROJECT CONTACT: ~~Nathan Diem~~ Gabriel Smith

SAMPLER(S): (PRINT) Cameron Higman

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

57025412

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270 SIM)	Pesticides (8081)	PCBs (8082) by dry wieght	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals 6010/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TPH C6-C44	Title 22 metals		
1	B-4 10'	6/3/25	13:23	soil	1																		X	X		
	B-8 10'	6/3/25	8:32	soil	1																		X	X		
	B-11 15'	6/3/25	16:00	soil	1																		X	X		
	B-13 10'	6/2/25	14:54	soil	1																		X	X		

570-234783 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Sample Fridge	6/16/25	11:00
Sample Fridge	[signature]	6-16-25	1225
[signature]	[signature]	6-16-25	1600

Sc11 1.0 / 1.5

VOA

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 570-234783-1
SDG Number: Pavilion 110064001-PRELOGGED

Login Number: 234783
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Table D-1 – Soil Sample Analytical Results

Boring	Sample ID	Date Sampled	Depth (feet bgs)	TPH (mg/kg) (C6-C44)	Detected Title 22 Metals																	
					Antimony	Arsenic*	TCLP - Arsenic (mg/L)	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	STLC - Lead (mg/L)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
					mg/kg																	
B-1	B-1 2'	6/2/2025	2	220	ND<2.90	**18.6**	--	37.2 J	0.190 J	ND<0.166	11.0	3.11	9.58	5.72 J	--	ND<0.0225	ND<0.523	4.91	ND<1.24	ND<0.146	ND<2.14	33.0	32.1
	B-1 5'		5	100	ND<2.90	9.25	--	33.3 J	0.178 J	ND<0.166	9.51	2.18	7.44	2.79 J	--	ND<0.0245	ND<0.523	2.46	ND<1.24	ND<0.146	ND<2.14	21.2	21.8
	B-1 10'		10	90	ND<2.83	**28.0**	--	113 J	0.248 J	ND<0.162	11.8	2.86	10.3	15.7 J	--	ND<0.0235	0.817 J	3.32	ND<1.21	ND<0.143	ND<2.09	26.2	31.3
B-2	B-2 2 '	6/3/2025	2	550	ND<2.86	6.38	--	117	0.275 J	ND<0.164	11.6	2.90	11.8	9.26	--	ND<0.0217	0.875 J	5.08	ND<1.22	ND<0.144	ND<2.11	24.8	28.4
	B-2 5'		5	29	ND<2.83	8.21	--	94.6	0.285 J	ND<0.162	156	4.76	13.4	6.13	--	ND<0.0217	0.755 J	8.21	ND<1.21	ND<0.143	ND<2.09	28.4	30.7
	B-2 10'		10	11 J	ND<2.90	**22.3**	--	48.3	0.431 J	ND<0.166	9.43	2.89	8.91	12.0	--	ND<0.0235	0.622 J	3.57	ND<1.24	ND<0.146	ND<2.14	22.5	32.9
B-3	B-3 2'	6/2/2025	2	64	ND<2.81	3.18	--	21.3 J	0.148 J	ND<0.162	7.78	1.55	3.81	2.61 J	--	ND<0.0230	ND<0.507	2.77	ND<1.20	ND<0.142	ND<2.07	17.8	10.8
	B-3 5'		5	30	ND<2.86	**18.6**	--	29.8 J	0.575	ND<0.164	12.2	3.44	11.8	6.34 J	--	ND<0.0230	ND<0.515	4.64	ND<1.22	ND<0.144	ND<2.11	34.9	32.1
	B-3 10'		10	8.8	ND<2.87	**16.6**	--	30.9 J	0.955	ND<0.165	11.1	3.66	11.7	5.44 J	--	ND<0.0225	0.641 J	5.88	ND<1.23	ND<0.145	ND<2.12	23.3	43.4
B-4	B-4 2'	6/3/2025	2	79	ND<2.87	7.47	--	21.3	0.188 J	ND<0.165	7.91	1.37	3.00	2.16	--	ND<0.0235	ND<0.518	2.25	ND<1.23	ND<0.145	ND<2.12	23.1	6.42
	B-4 5'		5	24 J	ND<2.81	6.67	--	21.0	0.172 J	ND<0.162	9.56	3.19	10.8	3.17	--	ND<0.0235	ND<0.507	4.19	ND<1.20	ND<0.142	ND<2.07	21.7	29.2
	B-4-10'		10	28	ND<2.89	**29.4**	--	80.7	0.492 J	ND<0.166	9.43	2.69	9.90	5.59	--	ND<0.0230	0.644 J	3.93	ND<1.23	ND<0.145	ND<2.13	25.0	33.8
B-5	B-5 2'	6/2/2025	2	140	ND<2.92	9.60	--	84.5 J	0.306 J	ND<0.167	9.27	3.30	8.01	6.59 J	--	ND<0.0225	ND<0.526	4.29	ND<1.25	ND<0.147	ND<2.15	21.9	28.2
	B-5 5'		5	35	ND<2.89	3.01 J	--	62.2 J	0.240 J	ND<0.166	11.0	2.97	6.12	8.36 J	--	ND<0.0245	ND<0.520	4.17	ND<1.23	ND<0.145	ND<2.13	23.4	32.0
	B-5 8'		8	17	ND<2.92	**21.7**	--	37.6 J	0.230 J	ND<0.167	13.6	2.56	12.1	4.60 J	--	ND<0.0230	0.740 J	4.58	ND<1.25	ND<0.147	ND<2.15	36.0	25.6
B-6	B-6 2'	6/4/2025	2	ND<4.6	ND<2.90	4.89	--	48.0	0.305 J	ND<0.166	10.8	4.23	5.91	6.08	--	ND<0.0221	ND<0.523	5.27	ND<1.24	ND<0.146	ND<2.14	23.9	20.5
	B-6 5'		5	ND<4.5	ND<2.87	2.84 J	--	10.3	0.264 J	ND<0.165	9.57	1.55	3.88	1.52 J	--	ND<0.0235	ND<0.518	4.01	ND<1.23	ND<0.145	ND<2.12	22.1	9.94
	B-6 10'		10	9.6 J	ND<2.86	**20.2**	--	59.5	0.788	ND<0.164	17.5	6.04	29.2	12.0	--	ND<0.0217	0.638 J	11.0	ND<1.22	ND<0.144	ND<2.11	42.3	61.1
B-7	B-7 2'	6/4/2025	2	ND<4.6	ND<2.87	3.40	--	117	0.176 J	ND<0.165	10.8	2.60	4.45	3.38	--	ND<0.0230	ND<0.518	3.71	ND<1.23	ND<0.145	ND<2.12	23.7	11.7
	B-7 5'		5	4.9 J	ND<2.90	3.13	--	105	0.190 J	ND<0.166	13.8	2.65	10.5	1.95 J	--	ND<0.0217	ND<0.523	4.52	ND<1.24	ND<0.146	ND<2.14	28.1	21.7
	B-7 10'		10	ND<4.5	ND<2.89	**15.2**	--	45.9	0.934	ND<0.166	13.2	8.62	38.2	67.9	0.242 J	ND<0.0240	0.568 J	11.8	ND<1.23	ND<0.145	ND<2.13	26.8	74.4
B-8	B-8 2'	6/3/2025	2	ND<4.6	ND<2.83	**16.7**	--	118	0.532	ND<0.162	13.4	5.11	18.0	11.9	--	ND<0.0245	ND<0.510	6.65	ND<1.21	ND<0.143	ND<2.09	30.2	50.3
	B-8 5'		5	91	ND<2.90	**40.4**	--	95.4	0.343 J	ND<0.166	8.98	3.08	7.89	5.84	--	ND<0.0225	ND<0.523	3.78	ND<1.24	ND<0.146	ND<2.14	27.3	25.6
	B-8-10'		10	13 J	ND<2.86	**24.1**	--	129	1.50	ND<0.164	12.0	18.3	17.5	11.0	--	ND<0.0240	0.525 J	10.3	ND<1.22	ND<0.144	ND<2.11	34.1	55.9
B-9	B-9 2 '	6/4/2025	2	ND<4.5	ND<2.90	3.22	--	91.3	0.203 J	ND<0.166	11.2	2.75	6.65	9.04	--	ND<0.0235	ND<0.523	4.01	ND<1.24	ND<0.146	ND<2.14	23.4	19.5
	B-9 5'		5	ND<4.6	ND<2.87	**33.3**	--	48.2	0.691	ND<0.165	14.8	6.08	17.9	11.5	--	ND<0.0235	ND<0.518	7.20	ND<1.23	ND<0.145	ND<2.12	35.2	50.2
	B-9 10'		10	ND<4.6	ND<2.86	**13.9**	--	40.9	0.825	ND<0.164	10.1	9.73	9.20	7.20	--	ND<0.0225	ND<0.515	7.69	ND<1.22	ND<0.144	ND<2.11	21.9	46.7
B-10	B-10 2'	6/4/2025	2	ND<4.5	ND<2.87	2.94 J	--	17.4	0.201 J	ND<0.165	15.7	1.73	4.67	2.25	--	ND<0.0221	ND<0.518	3.17	ND<1.23	ND<0.145	ND<2.12	23.0	11.0
	B-10 5'		5	ND<4.5	ND<2.89	1.93 J	--	18.5	0.253 J	ND<0.166	9.55	3.41	6.45	3.07	--	ND<0.0217	ND<0.520	4.23	ND<1.23	ND<0.145	ND<2.13	20.8	29.8
	B-10 10'		10	ND<4.5	ND<2.90	2.32 J	--	16.8	0.406 J	ND<0.166	7.01	4.49	4.57	3.19	--	ND<0.0225	ND<0.523	3.95	ND<1.24	ND<0.146	ND<2.14	16.5	27.6
B-11	B-11 2'	6/3/2025	2	**700**	ND<2.83	2.62 J	--	144	0.149 J	ND<0.162	8.90	2.22	4.95	4.47	--	ND<0.0221	ND<0.510	3.07	ND<1.21	ND<0.143	ND<2.09	21.0	12.8
	B-11 5'		5	18 J	ND<2.80	**193**	ND<0.199	93.6	0.980	ND<0.161	14.3	5.20	46.2	14.0	--	ND<0.0245	1.24 J	7.79	ND<1.20	ND<0.141	ND<2.06	116	83.8
	B-11 10'		10	14 J	ND<2.87	**12.6**	--	389	1.36	ND<0.165	16.6	16.8	31.7	59.2	0.432 J	ND<0.0235	1.18 J	13.8	ND<1.23	ND<0.145	ND<2.12	29.5	79.8
	B-11-15'		15	9.9 J	ND<2.84 U	11.4	--	29.7	1.43	ND<0.163	17.8	4.60	19.3	7.13	--	ND<0.0217	ND<0.512	9.10	ND<1.22	0.187 J	ND<2.10	28.8	51.4
B-12	B-12 2'	6/4/2025	2	5.6 J	ND<2.87	9.56	--	52.3	0.251 J	ND<0.165	9.72	2.39	8.05	5.40	--	ND<0.0221	ND<0.518	3.56	ND<1.23	ND<0.145	ND<2.12	27.8	23.7
	B-12 5'		5	ND<4.5	ND<2.92	**16.4**	--	23.6	0.459 J	ND<0.167	8.78	3.52	8.06	6.48	--	ND<0.0221	ND<0.526	5.05	ND<1.25	ND<0.147	ND<2.15	34.2	31.1
	B-12 10'		10	ND<4.6	ND<2.81	3.44	--	21.0	0.456 J	ND<0.162	6.70	10.2	4.75	2.52	--	ND<0.0217	ND<0.507	4.11	ND<1.20	ND<0.142	ND<2.07	17.0	26.6
B-13	B-13 2'	6/2/2025	2	14	ND<2.89	**27.9**	--	95.5 J	0.833	ND<0.166	18.0	6.12	26.8	11.7 J	--	ND<0.0230	ND<0.520	9.22	ND<1.23	ND<0.145	ND<2.13	37.1	59.6
	B-13 5'		5	17	ND<2.86	8.10	--	21.1 J	0.450 J	ND<0.164	7.44	3.91	5.74	4.40 J	--	ND<0.0221	ND<0.515	3.83	ND<1.22	ND<0.144	ND<2.11	21.3	28.4
	B-13-10'		10	11 J	ND<2.90	2.64 J	--	17.8	0.419 J	ND<0.166	7.09	4.87	5.72	3.30	--	ND<0.0221	ND<0.523	4.07	ND<1.24	ND<0.146	ND<2.14	15.0	27.9
B-14	B-14 2'	6/4/2025	2	ND<4.6	ND<2.90	3.22	--	51.0	0.228 J	ND<0.166	9.01	3.36	4.94	4.94	--	ND<0.0235	ND<0.523	4.11	ND<1.24	ND<0.146	ND<2.14	20.7	24.0
	B-14 5'		5	ND<4.5	ND<2.92	2.69 J	--	33.4	0.459 J	ND<0.167	8.25	7.40	5.15	3.37	--	ND<0.0245	ND<0.526	4.01	ND<1.25	ND<0.147	ND<2.15	18.5	23.9
	B-14 10'		10	ND<4.5	ND<2.87	2.90 J	--	30.8	0.440 J	ND<0.165	7.35	3.24	4.62	3.58	--	ND<0.0235	ND<0.518	3.73	ND<1.23	ND<0.145	ND<2.12	16.8	25.4
B-15	B-15 2'	6/4/2025	2	ND<4.6	ND<2.90	2.82 J	--	24.1	0.470 J	ND<0.166	8.53	9.61	8.60	5.75	--	ND<0.0245	ND<0.523	5.16	ND<1.24	ND<0.146	ND<2.14	19.2	33.2
	B-15 5'		5	ND<4.5	ND<2.86	3.55	--	30.8	0.463 J	ND<0.164	7.00	3.43	4.00	3.10	--	ND<0.0217	ND<0.515	3.56	ND<1.22	ND<0.144	ND<2.11	17.5	23.3
	B-15 10'		10	ND<4.6	ND<2.84	2.43 J	--	43.2	0.498	ND<0.163	9.02	2.36	4.96	2.48	--	ND<0.0235	ND<0.512	3.58	ND<1.22	ND<0.143	ND<2.10	16.8	23.2
B-16	B-16 2'	6/4/2025	2	8.6 J	ND<2.83	4.23	--	52.9	0.248 J	ND<0.162	8.32	2.25	4.13	4.22	--	ND<0.0217	ND<0.510	2.76	ND<1.21	ND<0.143	ND<2.09	21.4	12.1
B-17	B-17 2'	6/4/2025	2	8.6 J	ND<2.86	3.65	--	95.6	0.213 J	ND<0.164	8.61	2.09	4.43	4.29	--	ND<0.0245	ND<0.515	2.79	ND<1.22	ND<0.144	ND<2.11	20.9	12.8
B-18	B-18 2'	6/4/2025	2	190	ND<2.84	7.11	--	83.1	0.261 J	ND<0.163	10.0	2.71	9.83	6.97	--	ND<0.0235	ND<0.512	4.04	ND<1.22	ND<0.143	ND<2.10	23.1	22.6
B-19	B-19 2'	6/4/2025	2	270	ND<2.92	10.1	--	88.2	0.319 J	ND<0.167	10.2	3.33	11.4	9.89	--	ND<0.0217	ND<0.526	4.92	ND<1.25	ND<0.147	ND<2.15	24.6	32.1
Screening Criteria																							
DTSC SL[1]				NE	NE	0.11	NA	NE	16	7.1	NE	NE	NE	80	NA	1.0	NE	820	NE	NE	NE	NE	NE
EPA RSL[2]				NE	3.1	0.68	NA	1,500	16	0.71	NE	23.0	310	NE	NA	NE	39	140	39	39	0.078	390	2,300
RWQCB[3]				460/200/12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UCSD SL[4]				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15/49	NA	NA	NA	NA	NA	NA	NA	NA	NA
STLC x 10[5]				NA	150	50	50	1,000	7.5	10	50	800	250	50	50	2	3,500	200	10	50	70	240	2,500
TCLP x 20[6]				NA	NE	100	100	2,000	NE	20	100	NE	NE	100	100	4	NE	NE	20	100	NE	NE	NE

Notes:
bgs - below ground surface
mg/kg - milligrams per kilogram
mg/L - miligrams per liter
STLC - soluble threshold limit concentration
TCLP - toxicity characteristic leaching procedure
TPH - total petroleum hydrocarbons
J - result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
NA - not applicable
NE - not established
Bold analyte detected at or above residential EPA RSL, DTSC SL, or SFRWQCB ESL, whichever is applicable for the analyte
analyte detected at or above UCSD screening level.
results indicate analyte detected at or above potential regulated waste trigger criteria
-- sample not analyzed
* - laboratory reporting limit above EPA regional screening levels; however, an upper bound limit of 12 mg/kg arsenic is acceptable at school sites per DTSC
1. Department of Toxic Substances Control (DTSC) Residential Screening Levels (SL), Human Health Risk (HERO), Note 3, June2020-Revised-May2022; Most conservative value has been tabulated--if no values, default to EPA Regional Screening Levels (RSL), TR=1E-06, HQ=1, November 2024
2. United States Environmental Protection Agency (EPA) Residential Regional Screening Levels (RSL) TR=1E-06, HQ=1, November 2024, Most conservative value has been tabulated --if no TPH value default to SFRWQCB residential ESL, 2025
3. San Francisco Bay Regional Water Quality Control Board (RWQCB) Residential Environmental Screening Levels (ESLs) gasoline/diesel/motor oil ESL, 2025
4. UCSD - University of San Diego, Environmental Health and Saftey, Site Development Guidelines and Procedures For UC San Diego, July 2018, <5ft bgs 15mg/kg SL and >5ft bgs 49mg/kg SL
5. STLC x 10 - ten times the soluble threshold limit concentration regulatory limit
6. TCLP x 20 - 20 times the toxicity characteristic leaching procedure regulatory limit

Table D-2 – Arsenic 95UCL

All Soil Samples	
Sample ID	Arsenic (mg/kg)
B-1 2'	**18.60**
B-1 5'	9.25
B-1 10'	**28.00**
B-2 2 '	6.38
B-2 5'	8.21
B-2 10'	**22.30**
B-3 2'	3.18
B-3 5'	**18.60**
B-3 10'	**16.60**
B-4 2'	7.47
B-4 5'	6.67
B-4-10'	**29.40**
B-5 2'	9.60
B-5 5'	3.01
B-5 8'	**21.70**
B-6 2'	4.89
B-6 5'	2.84
B-6 10'	**20.20**
B-7 2'	3.40
B-7 5'	3.13
B-7 10'	**15.20**
B-8 2'	**16.70**
B-8 5'	**40.40**
B-8-10'	**24.10**
B-9 2 '	3.22
B-9 5'	**33.30**
B-9 10'	**13.90**
B-10 2'	2.94
B-10 5'	1.93
B-10 10'	2.32
B-11 2'	2.62
B-11 5'	**193.00**
B-11 10'	**12.60**
B-11-15'	11.40
B-12 2'	9.56
B-12 5'	**16.40**
B-12 10'	3.44
B-13 2'	**27.90**
B-13 5'	8.10
B-13-10'	2.64
B-14 2'	3.22
B-14 5'	2.69
B-14 10'	2.90
B-15 2'	2.82
B-15 5'	3.55
B-15 10'	2.43
B-16 2'	4.23
B-17 2'	3.65
B-18 2'	7.11
B-19 2'	10.10
NDs = 1/2 DL	
No. of Samples	50
Min.	1.93
Max.	193
Average	14.56
St. Dev.	27.45
Confidence	7.61
95UCL	22.16

Shallow Soil Samples (2 to 5 feet)	
Sample ID	Arsenic (mg/kg)
B-1 2'	**18.60**
B-1 5'	9.25
B-2 2 '	6.38
B-2 5'	8.21
B-3 2'	3.18
B-3 5'	**18.60**
B-4 2'	7.47
B-4 5'	6.67
B-5 2'	9.60
B-5 5'	3.01
B-6 2'	4.89
B-6 5'	2.84
B-7 2'	3.40
B-7 5'	3.13
B-8 2'	**16.70**
B-8 5'	**40.40**
B-9 2 '	3.22
B-9 5'	**33.30**
B-10 2'	2.94
B-10 5'	1.93
B-11 2'	2.62
B-11 5'	**193.00**
B-12 2'	9.56
B-12 5'	**16.40**
B-13 2'	**27.90**
B-13 5'	8.10
B-14 2'	3.22
B-14 5'	2.69
B-15 2'	2.82
B-15 5'	3.55
B-16 2'	4.23
B-17 2'	3.65
B-18 2'	7.11
B-19 2'	10.10
NDs = 1/2 DL	
No. of Samples	34
Min.	1.93
Max.	193.00
Average	14.67
St. Dev.	32.83
Confidence	11.03
95UCL	25.70

Deep Soil Samples (below 5 feet)	
Sample ID	Arsenic (mg/kg)
B-1 10'	**28.00**
B-2 10'	**22.30**
B-3 10'	**16.60**
B-4-10'	**29.40**
B-5 8'	**21.70**
B-6 10'	**20.20**
B-7 10'	**15.20**
B-8-10'	**24.10**
B-9 10'	**13.90**
B-10 10'	2.32
B-11 10'	**12.60**
B-11-15'	11.40
B-12 10'	3.44
B-13-10'	2.64
B-14 10'	2.90
B-15 10'	2.43
NDs = 1/2 DL	
No. of Samples	16
Min.	2.32
Max.	29.40
Average	14.32
St. Dev.	9.49
Confidence	4.65
95UCL	18.97

Table D-3 – Lead 95UCL

All Soil Samples	
Sample ID	Lead (mg/kg)
B-1 2'	5.72
B-1 5'	2.79
B-1 10'	15.7
B-2 2 '	9.26
B-2 5'	6.13
B-2 10'	12
B-3 2'	2.61
B-3 5'	6.34
B-3 10'	5.44
B-4 2'	2.16
B-4 5'	3.17
B-4-10'	5.59
B-5 2'	6.59
B-5 5'	8.36
B-5 8'	4.6
B-6 2'	6.08
B-6 5'	1.52
B-6 10'	12
B-7 2'	3.38
B-7 5'	1.95
B-7 10'	67.9
B-8 2'	11.9
B-8 5'	5.84
B-8-10'	11
B-9 2 '	9.04
B-9 5'	11.5
B-9 10'	7.2
B-10 2'	2.25
B-10 5'	3.07
B-10 10'	3.19
B-11 2'	4.47
B-11 5'	14
B-11 10'	59.2
B-11-15'	7.13
B-12 2'	5.4
B-12 5'	6.48
B-12 10'	2.52
B-13 2'	11.7
B-13 5'	4.4
B-13-10'	3.3
B-14 2'	4.94
B-14 5'	3.37
B-14 10'	3.58
B-15 2'	5.75
B-15 5'	3.1
B-15 10'	2.48
B-16 2'	4.22
B-17 2'	4.29
B-18 2'	6.97
B-19 2'	9.89
NDs = 1/2 DL	
No. of Samples	50
Min.	1.52
Max.	67.9
Average	8.43
St. Dev.	11.91
Confidence	3.30
95UCL	11.73

Shallow Soil Samples (2 to 5 feet)	
Sample ID	Lead (mg/kg)
B-1 2'	5.72
B-1 5'	2.79
B-2 2 '	9.26
B-2 5'	6.13
B-3 2'	2.61
B-3 5'	6.34
B-4 2'	2.16
B-4 5'	3.17
B-5 2'	6.59
B-5 5'	8.36
B-6 2'	6.08
B-6 5'	1.52
B-7 2'	3.38
B-7 5'	1.95
B-8 2'	11.9
B-8 5'	5.84
B-9 2 '	9.04
B-9 5'	11.5
B-10 2'	2.25
B-10 5'	3.07
B-11 2'	4.47
B-11 5'	14
B-12 2'	5.4
B-12 5'	6.48
B-13 2'	11.7
B-13 5'	4.4
B-14 2'	4.94
B-14 5'	3.37
B-15 2'	5.75
B-15 5'	3.1
B-16 2'	4.22
B-17 2'	4.29
B-18 2'	6.97
B-19 2'	9.89
NDs = 1/2 DL	
No. of Samples	34
Min.	1.52
Max.	14.00
Average	5.84
St. Dev.	3.22
Confidence	1.08
95UCL	6.92

Deeper Soil Samples (Below 5 feet)	
Sample ID	Lead (mg/kg)
B-1 10'	15.7
B-2 10'	12
B-3 10'	5.44
B-4-10'	5.59
B-5 8'	4.6
B-6 10'	12
B-7 10'	67.9
B-8-10'	11
B-9 10'	7.2
B-10 10'	3.19
B-11 10'	59.2
B-11-15'	7.13
B-12 10'	2.52
B-13-10'	3.3
B-14 10'	3.58
B-15 10'	2.48
NDs = 1/2 DL	
No. of Samples	16
Min.	2.48
Max.	67.90
Average	13.93
St. Dev.	19.83
Confidence	9.72
95UCL	23.64



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Appendix B

Drainage Study

UC San Diego

UC San Diego Project #: 5671
Latitude 33 Project # 2044.3

Drainage Study for UC San Diego La Jolla Outpatient Pavilion

04-20-2026

Latitude 33 Planning and Engineering

UC SAN DIEGO – LA JOLLA OUTPATIENT PAVILION SCHEMATIC DESIGN

PREPARED BY:

10731 Treena Street
San Diego, CA 92131
Latitude 33 Job #: 2044.30

DATE: 2026-04-20

Matthew J. Semic RCE 71075
Registration Expires: 06-30-2026

Prepared By: EA
Checked By: VB/AV

Table of Contents

Declaration of Responsible Charge **4**

1. Introduction **5**

1.1 Purpose *5*

1.2 Scope *5*

2. Executive Summary **6**

3. Regulatory Setting & Performance Criteria **8**

3.1 National Pollutant Discharge Elimination System *8*

3.2 UC San Diego Design Guidelines *10*

3.3 Hydrologic/Hydraulic Modeling Software *13*

4. Existing Condition Assessment **15**

4.1 Existing Condition Hydrologic Summary *15*

4.2 Existing Condition Modeling Results – Rational Method *15*

5. Proposed Condition Assessment **17**

5.1 Proposed Condition Hydrologic Summary *17*

5.2 Proposed Condition Modeling Results – Rational Method *17*

6. Conclusion **19**

Appendix List

Appendix A – Existing Condition Modeling Results

Appendix B – Proposed Condition Modeling Results

Appendix C – Hydrograph and Peak Flow Detention Results

Appendix D – Rainfall Isopluvial Maps

List of Tables

Table 1 – UC San Diego Storm Water BMP Requirements 9
Table 2 – UC San Diego Hydrologic Criteria 10
Table 3 – C-Values 11
Table 4 – UC San Diego Hydraulic Requirements 12
Table 5 – Existing Condition Modeling Results 15
Table 6 – Proposed Condition Modeling Results 17

List of Figures

Figure 1 – Vicinity Map 7
Figure 2 – Existing Condition Hydrology & Hydraulic Routing 16
Figure 3 – Proposed Condition Hydrology & Hydraulic Routing 18

Abbreviations

CPM	Capital Program Management
CFS	Cubic Feet Per Second
Dn	Normal Depth
D	Depth
DDS	Design and Development Services
FPS	Feet per Second
GPD	Gallons per Day
GSF	Gross Square Footage
MGD	Million Gallons per Day
PVC	Polyvinyl Chloride
UC	University of California

Declaration of Responsible Charge

I hereby declare that I am the Engineer of Work for this project, that I have exercised responsible charge over the design of the project as defined in section 6703 of the business and professions code, and that the design is consistent with current standards.

I understand that the check of project drawings and specifications by UC San Diego is confined to a review only and does not relieve me, as Engineer of Work, of my responsibilities for project design.

_____ _____

Matthew J. Semic RCE 71075 Date
Registration Expires: 06-30-2026

1. Introduction

1.1 Purpose

The purpose of this drainage report is to address the drainage requirements for the proposed La Jolla Medical Center Outpatient Pavilion (LJMC OPP) development at the UC San Diego Campus for discretionary level based on the established campus guidelines referenced in Section 3. Recommendations on storm drain improvements, water quality treatment devices, storm water storage, and overall hydrologic conditions will be given for the proposed condition of the site. The goal of this report is to determine the infrastructure needed to ensure the project meets or exceed the UC San Diego hydrologic and hydraulic requirements.

1.2 Scope

The scope of this report includes the following elements:

- Existing UC San Diego Storm Drain System investigation and description.
- Determine estimated hydrologic flow rates for the existing and proposed conditions.
- Maintain or reduce existing condition peak flow rates.
- Ensure compliance with UC San Diego Flowrate requirements for projects creating/replacing 10,000 SF of Impervious Area.

2. Executive Summary

The La Jolla Medical Center Outpatient Pavilion is located east of Interstate-5 and north of La Jolla Village Drive, in the northeast corner of Campus Point Drive and Medical Center Road. See **Figure 1** for the project location. The project proposes a new outpatient pavilion building with accompanying parking lots and a loading dock. In the proposed condition, new storm drain, inlets, a mechanical treatment unit and a biofiltration basin/detention basin have been designed to enhance the drainage of the site and ensure that the project meets or exceeds all UC San Diego Design Guidelines.

The project will comply with all guidelines and requirements of the Small Non-Traditional MS4 Phase II Permit through design of on-site storm drain infrastructure, utilization of mechanical treatment units for treatment; and underground detention vault in support of maintaining existing condition peak flow rates at the point of confluence.

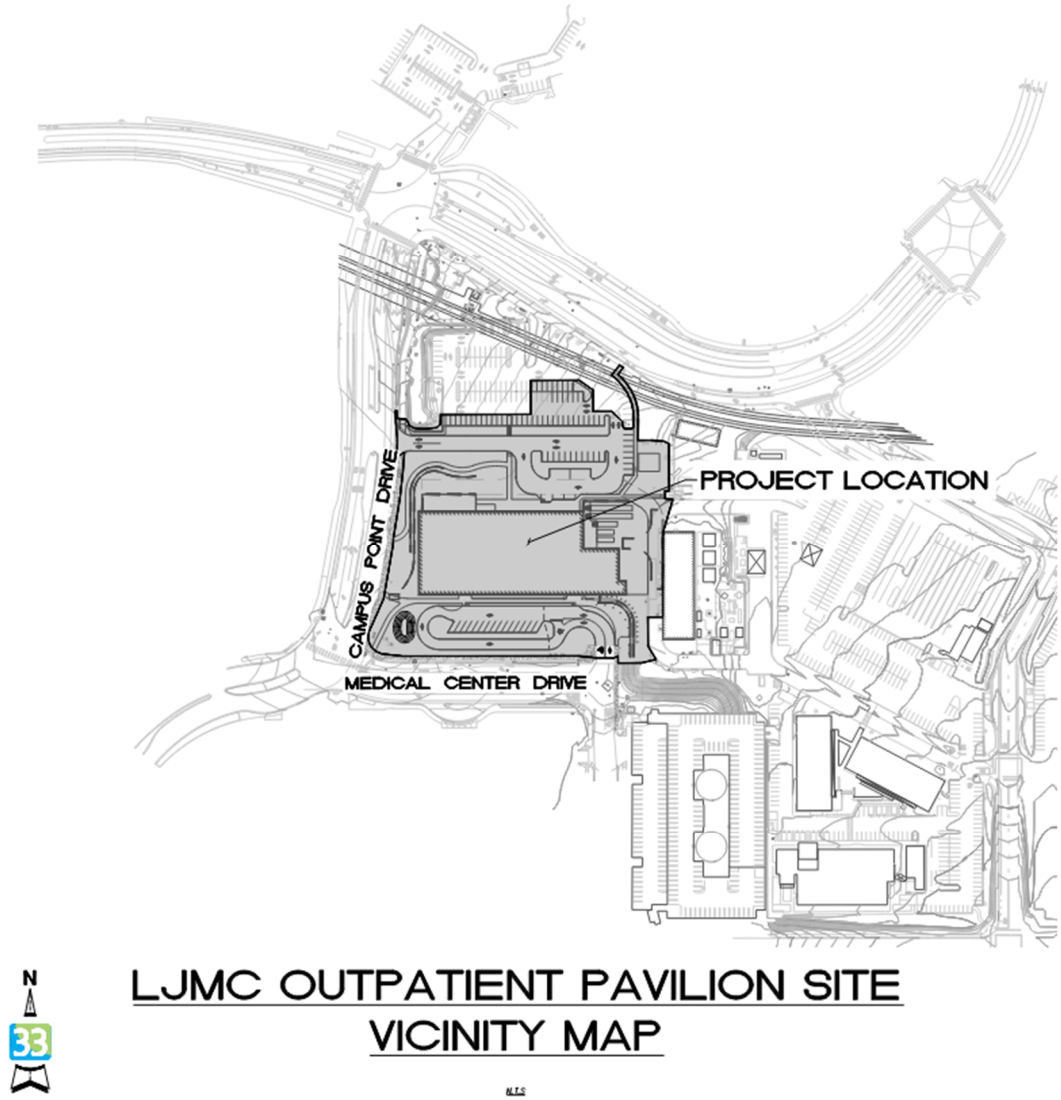


Figure 1 – Vicinity Map

3. Regulatory Setting & Performance Criteria

3.1 National Pollutant Discharge Elimination System

UC San Diego is one of ten UC campuses governed and administrated by the Regents of the University of California. As such, UC San Diego is regulated by the Federal Environmental Protection Agency (EPA) Phase II storm water regulations, the Clean Water Act (CWA) and the Small Municipal Separate Storm Sewer System's (MS4's) Order No. 2013-0001-DEG, NPDES No. CAS00004. UC San Diego adopted the revised Phase II Small MS4 General Permit as a Non-Traditional Permittee on July 1st, 2013. In response to section F of said permit, UC San Diego is required to create and maintain a Storm Water Management Program (SWMP) to govern Storm Water policy on the campus.

As part of the SWMP, design guidelines were created for all new projects on campus requiring drainage reports for any regulated project (those that create/replace 5,000 sq. ft or greater impervious area) that meet any of the following conditions:

- A development or redevelopment project that would result in an increase or decrease in impervious area.
- A project that will install or modify an existing storm drain system.
- A project that is in the Coastal Zone and will be reviewed by the Coastal Commission as determined by the University.
- A project site area that is one acre or greater and SWPPP is required.
- Project-level CEQA analysis is required.
- A project or building that will be attaining a LEED Certification
- Projects that create or replace 2,500 sq. ft. or more of impervious area are required to follow the post-construction storm water management program as set by the UC San Diego Storm Water Management Plan and enforced by the EH&S department. These requirements are shown in Table 1 on the next page.

Table 1 – BMP Requirements

UC San Diego Storm Water BMP Requirements for all Development Projects	
All projects that create or replace more than 2,500 sq. ft.	Complete and submit the "Post-Construction Stormwater Management Checklist" and receive project approval from UC San Diego Civil Engineers as well as Environmental Health and Safety Staff during the planning phase, Design Development Phase, and Construction Document Phase.
All projects that create or replace less than 2,500 sq. ft of impervious surface	Complete page 1 & 2 of the checklist for 2,500 SF -5,000 SF and submit for record.
All projects that create or replace between 2,500 sq. ft. and less than 5,000 sq. ft. of impervious area	Complete Post-Construction Stormwater Management Checklist for 2,500 SF to 5,000 SF. Quantify the runoff reduction using State's Post-Construction Water Balance Calculator, available at http://stormwater.ucsd.edu or request from EH&S Environmental Affair at ehsea@ucsd.edu and attach to the checklist.
All projects that create or replace 5,000 sq. ft. or more of impervious area	Classified as a regulated project. Complete in full the Post-Construction Stormwater Management Checklist for 5,000 sq. ft. or greater. Quantify "Site Design" BMPs using State's Post-Construction Water Balance Calculator and show that post-construction water balance is achieved. If balancing is not possible, see below. "Treatment Control" BMPs are <u>only</u> required if the Site Design BMPs above cannot fully meet Permit requirements. a) Quantify and explain in the Post-Construction Stormwater Management Checklist and include any attachments as needed. b) Design shall be based on the Flow-Based or Volume-Based criteria specified in Section F.5.g.2.b (Numeric Sizing Criteria) of the Phase II Small MS4 Permit c) Bioretention facilities are preferred, however alternative treatment BMPs can be used if proper documentation and supporting calculations prepared by a Registered Civil Engineer are provided and attached to the checklist. d) <u>An Operations and Maintenance Plan (O&M)</u> for each Post-Construction BMP <u>must</u> be included in the checklist.

3.2 UC San Diego Design Guidelines

UC San Diego design guidelines, dated January 31st, 2025, give specific guidelines for both hydrologic and hydraulic requirements per project. These are listed below in greater detail:

Hydrologic Requirements:

UC San Diego guidelines require the use of the 2003 County of San Diego Hydrology Manual for the generation of flow rate for overland flow. Based on the size of the UC San Diego Multipurpose Clinical Research Building, the rational method was utilized within this report. The rational method is a mathematical formula that calculates the peak rate of runoff (Q) at any given location in a watershed. This is computed using the drainage area (A), the runoff coefficient (C), and rainfall intensity (I) for a duration equal to the time of the concentration (Tc).

$$Q = C * I * A$$

Table 2 shows the criteria for Hydrologic modeling of the Modified Rational Method at UC San Diego:

Table 2	
UC San Diego Hydrologic Criteria:	
Hydrologic Soil Type:	Soil Type D (Unless Specified by Geotechnical Engineer)
Runoff Coefficients (Based on Land Use)	See Table 3
Rainfall Intensity:	Based on County of San Diego Rainfall Isopluvials
Storm Event:	10 year & 100 year, 6 - hour storm event

All projects on campus are required to use Soil Type D for poor infiltration unless specified otherwise by the Project Geotechnical Engineer. Runoff coefficients (C) are based on land use per table 3-1 of the 2003 County of San Diego Hydrology Manual, seen in Table 3 of this report. Rainfall intensities are provided by the County of San Diego Rainfall Isopluvial Maps and Section 3.1.3 of the County of San Diego Hydrology manual and are selected by the storm duration to be modeled. Rainfall Isopluvial Maps can be found in **Appendix D**.

Table 3						
C-Values						
Land Use		Runoff Coefficient "C"				
		Soil Type				
NRCS Elements	County Elements	% IMPER.	A	B	C	D
Undisturbed Natural Terrain (Natural)	Permanent Open Space	0*	0.2	0.25	0.3	0.35
Low Density Residential (LDR)	Residential, 1.0 DU/A or less	10	0.27	0.32	0.36	0.41
Low Density Residential (LDR)	Residential, 2.0 DU/A or less	20	0.34	0.38	0.42	0.46
Low Density Residential (LDR)	Residential, 2.9 DU/A or less	25	0.38	0.41	0.45	0.49
Medium Density Residential (MDR)	Residential, 4.3 DU/A or less	30	0.41	0.45	0.48	0.52
Medium Density Residential (MDR)	Residential, 7.3 DU/A or less	40	0.48	0.51	0.54	0.57
Medium Density Residential (MDR)	Residential, 10.9 DU/A or less	45	0.52	0.54	0.57	0.6
Medium Density Residential (MDR)	Residential, 14.5 DU/A or less	50	0.55	0.58	0.6	0.63
High Density Residential (HDR)	Residential, 24.0 DU/A or less	65	0.66	0.67	0.69	0.71
High Density Residential (HDR)	Residential, 43.0 DU/A or less	80	0.76	0.77	0.78	0.79
Commercial/Industrial (N. Com)	Neighborhood Commercial	80	0.76	0.77	0.78	0.79
Commercial/Industrial (G. Com)	General Commercial	85	0.8	0.8	0.81	0.82
Commercial/Industrial (O.P. Com)	Office Professional/Commercial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (Limited I.)	Limited Industrial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (General I.)	General Industrial	95	0.87	0.87	0.87	0.87

Hydrologic Criteria:

The modified Rational Method was used to determine the 10-year and 100-year peak discharge flows for the design of the storm drain improvements. The goal of the project hydrology analysis was to:

- Determine existing and design peak 10 and 100-year flows for the sizing of the onsite storm drain system inlets, and pipes that convey flow to the discharge locations.
- Verify that the project does not adversely impact existing storm drain improvements or natural drainage. A comparative analysis was performed between the existing peak 100-year and post-project peak 100-year design storms at two locations.
- Determine if detention of peak flows is necessary.
- Per UC San Diego Design Guidelines, all projects that generate 10,000 sq. ft of new impervious area are required to adhere to pre-project 10 year, 6-hour flow rate per overall discharge.

Hydraulic Requirements:

UC San Diego guidelines require the use of the County of San Diego Drainage Design Manual (2014) for hydraulic design of storm drain systems on campus. Some of these requirements, but not limited to, are shown in Table 4.

Table 4

UC San Diego Hydraulic Requirements
HGL for 100-year 6-hour storm shall maintain a minimum of 1 foot freeboard below ground surface
If 1 foot freeboard is not possible, provide calculations and an exhibit that the overflow damage will not damage any improvements.
Minimum 1% slope*
Concentrated flow in unpaved areas shall be designed with natural swales to convey surface runoff.

* If not achievable, obtain approval from CPM Civil Engineer

Based on the year this drainage report was written, evaluation of storm drain structures was based on the latest version of the County of San Diego Drainage Design Manual (2014). Future analysis of Storm Drain hydraulics should adhere to the latest version of the County San Diego Drainage Design Manual.

3.3 Hydrologic/Hydraulic Modeling Software

Detention Methodology and Criteria:

The detention basin was designed to attenuate post-project flow rates to pre-project levels for the 10-year storm event. For the detention basin design, the Modified Rational Method hydrologic analyses were performed to determine the 10-year and 100-year, 6-hour peak runoff for both the pre- and post-project conditions in order to provide peak flow rate reduction. Based on the Rational Method analyses, determination was made on a drainage vault size by the detention analysis. The post-project hydrologic results were used to create an inflow unit hydrograph. The unit hydrograph was created using RatHydro program. Based on the unit hydrograph, the Autodesk Hydroflow program was used to route the inflow hydrograph through the vault and its associated stage-storage-discharge curve to produce an outflow hydrograph.

Description of Detention Modeling Software:

The rainfall distribution and related hydrographs were developed using the RatHydro program created by Rick Engineering. The ordinates on the hydrographs area calculated on the County of San Diego Intensity-Duration Chart. The program uses the following equation:

$$Q_N = [(I_{T(N)})(T_{T(N)})-(I_{T(N-1)})(T_{T(N-1)})]CA/T_C$$

Where:
Q_N = Peak Discharge for rainfall block N in cfs,
N = number of rainfall blocks,
$T_{T(N)}$ = time of concentration at rainfall block N in minutes (equal to NTc),
$I_{T(N)}$ = rainfall intensity at time of concentration $T_{T(N)}$ in inches per hour,
C = Rational Method runoff coefficient,
A = area of watershed (acres)

To develop the hydrograph for the 6-hour design storm, a series of triangular hydrographs with ordinates at multiples of the given T_C are created and added to create hydrograph. The hydrograph has its peak at 4 hours plus 1/2 of the T_C.

The PondPack program was used for analyzing post-condition hydrology for detention design. PondPack can size ponds, develop outlet rating curves, and calculate pond detention times. The pond routing routine uses a mathematical procedure that models the detention vault response to the given storm event. By routing the storm water hydrograph through the vault, the maximum water surface elevation (WSE), outflow flowrate, and the storage volume can be determined.

Detention Vault Routing Methodology:

The 10-year and 100-year hydrographs were routed through the basin to demonstrate that the post-development peak flow rate will be less than the pre-development peak flow rate and that the detention facility will not overtop during the 100-year peak event. The riser and outlet configuration for the basin was designed to ensure that the riser grate and orifice size worked in conjunction to properly mitigate the increase flow rate. An orifice

coefficient of 0.60 was used per the San Diego County Hydraulic Design Manual. The hydrograph routing calculations are included in **Appendix C**.

4. Existing Condition Assessment

4.1 Existing Condition Hydrologic Summary

In the existing condition, the 3.91-acre UC San Diego LJMC OPP Site drains to one distinct drainage discharge point; see the Existing Condition Hydrology Exhibit provided as **Figure 2**. See below the description of this drainage basin in further detail:

Basin 1 consists of existing trailers, parking areas, and vegetated slopes that generally drain west and south toward the existing storm drain infrastructure. Runoff from the western portion of the site flows to inlets along a storm drain line situated parallel to Campus Point Drive, which then conveys flows south to the intersection of Campus Point Drive and Medical Center Drive before continuing east along Medical Center Drive. The remaining portions of the site drain directly south and are collected by inlets along Medical Center Drive, which connect to the main storm drain line running east along Medical Center Drive, at POC 1. Stormwater is conveyed via existing UC San Diego private storm drain, continuing until it eventually outlets to the Pacific Ocean.

4.2 Existing Condition Modeling Results – Rational Method

Existing conditions modeling results for the project point of connections (POC) can be seen below:

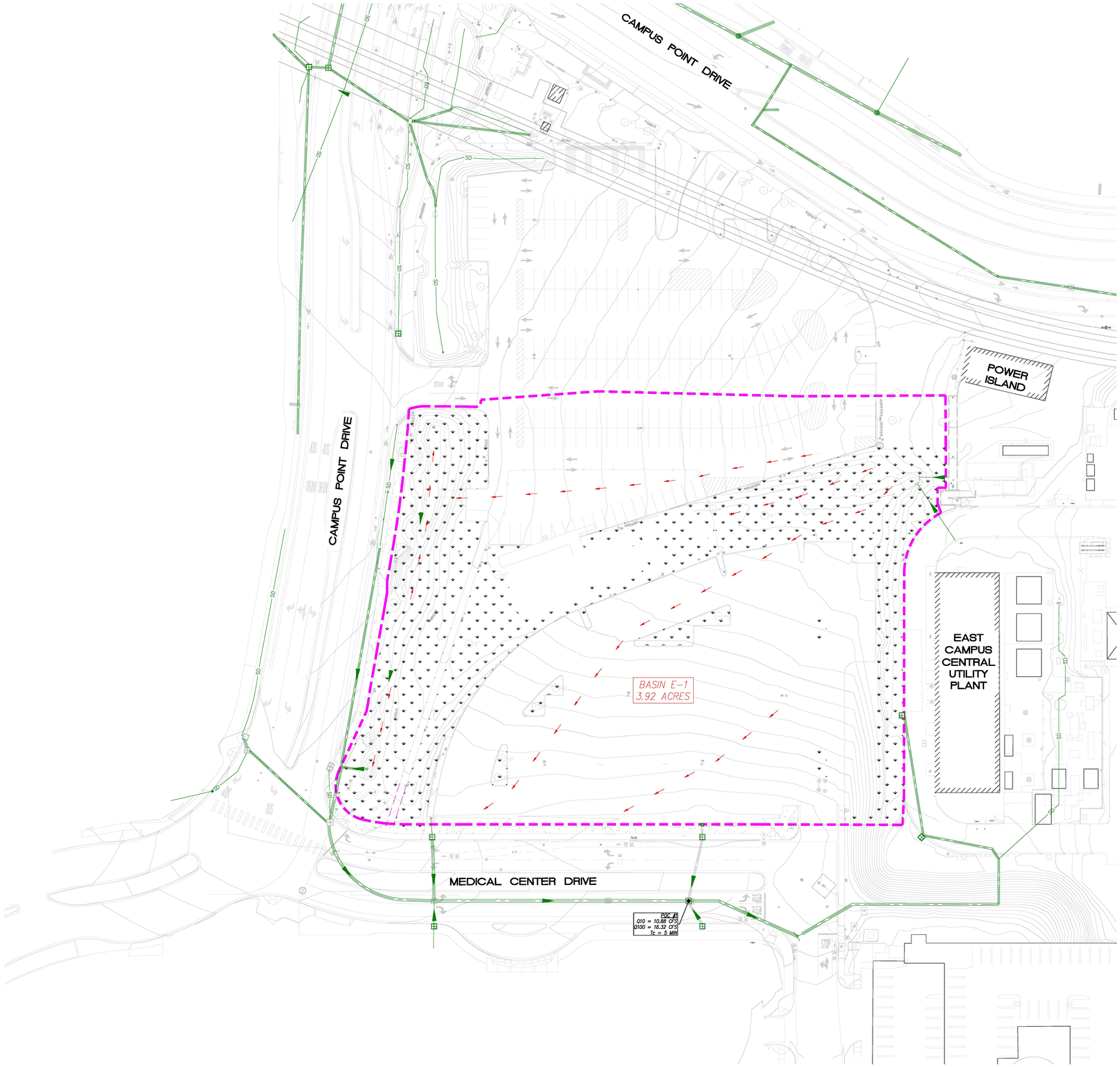
Table 5

Existing Condition Hydrology Results

P.O.C #	Area (acres)	10 Year Event (CFS)	100 Year Event (CFS)
1	3.92	10.88	16.32

More detailed hydrology calculations for the existing condition can be found in **Appendix A.**

Figure 2 – Existing Condition Hydrology Exhibit



LEGEND

- EXISTING HYDROLOGY BASIN BOUNDARY
- EXISTING STORM DRAIN < 12" — SD —
- EXISTING STORM DRAIN 12" AND LARGER
- EXISTING STORM DRAIN FLOW DIRECTION
- DRAINAGE FLOW DIRECTION
- EXISTING PERVIOUS AREA

BASIN NUMBER AND AREA — BASIN E-1 / 2.00 ACRES

N

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.

5671 UC SAN DIEGO LA JOLLA OUTPATIENT PAVILION
DPP EXISTING DRAINAGE EXHIBIT

SCALE:	NOTED		
DATE:	4/15/26	DRAWN BY:	E.M.
JOB NO.:	2044.3	CHECKED BY:	M.M.
SHEET:	1 OF 1		

latitude 33
PLANNING & ENGINEERING
10731 Treena Street, San Diego, CA 92131
Tel: 858.731.0533

UC San Diego

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5. Proposed Condition Assessment

5.1 Proposed Condition Hydrologic Summary

The proposed UC San Diego LJMC OPP site will consist of a new outpatient pavilion building with accompanying parking lots, landscapes areas, and a loading dock. The proposed site is divided into 3 drainage basins. **Figure 3** shows the proposed condition for hydrology and storm drain routing.

On-site stormwater will be captured in roof drains, area drains, curb inlets and trench drains and then routed through a proposed private storm drain system that ultimately outlets to POC #1, consistent with the existing condition. Proposed flows within Basin P-1 and Basin P-3 will be routed to a mechanical treatment unit to treat stormwater, then outlets to an existing storm drain structure at the intersection of Campus Point Drive and Medical Center Drive, then continues east to POC #1. Basin P-2 will be routed to a biofiltration basin for treatment and peak flow detention for the 10 and 100-year storms. See **Appendix C** for modeling outputs from PondPack regarding the sizing of the detention basin. The detention basin will mitigate flows to a peak discharge of 9.43 cfs for the 10-year, 6 hour storm, which is less than the 10.88 cfs routed to POC #1 in the existing condition. Pre-mitigated and mitigated flows are also listed in Table 6 below. Mitigated stormwater will enter a proposed pipe that ties into the existing main storm drain connection along Medical Center Drive and confluences with Basin P-1 and P-3 flows at POC #1. Stormwater is conveyed via existing UC San Diego private storm drain, continuing until it eventually outlets to the Pacific Ocean.

Overall, the sum of the three basins will not increase peak flow in the proposed condition compared to existing condition.

5.2 Proposed Condition Modeling Results – Rational Method

Proposed condition modeling results for the project point of connection (POC) can be seen below:

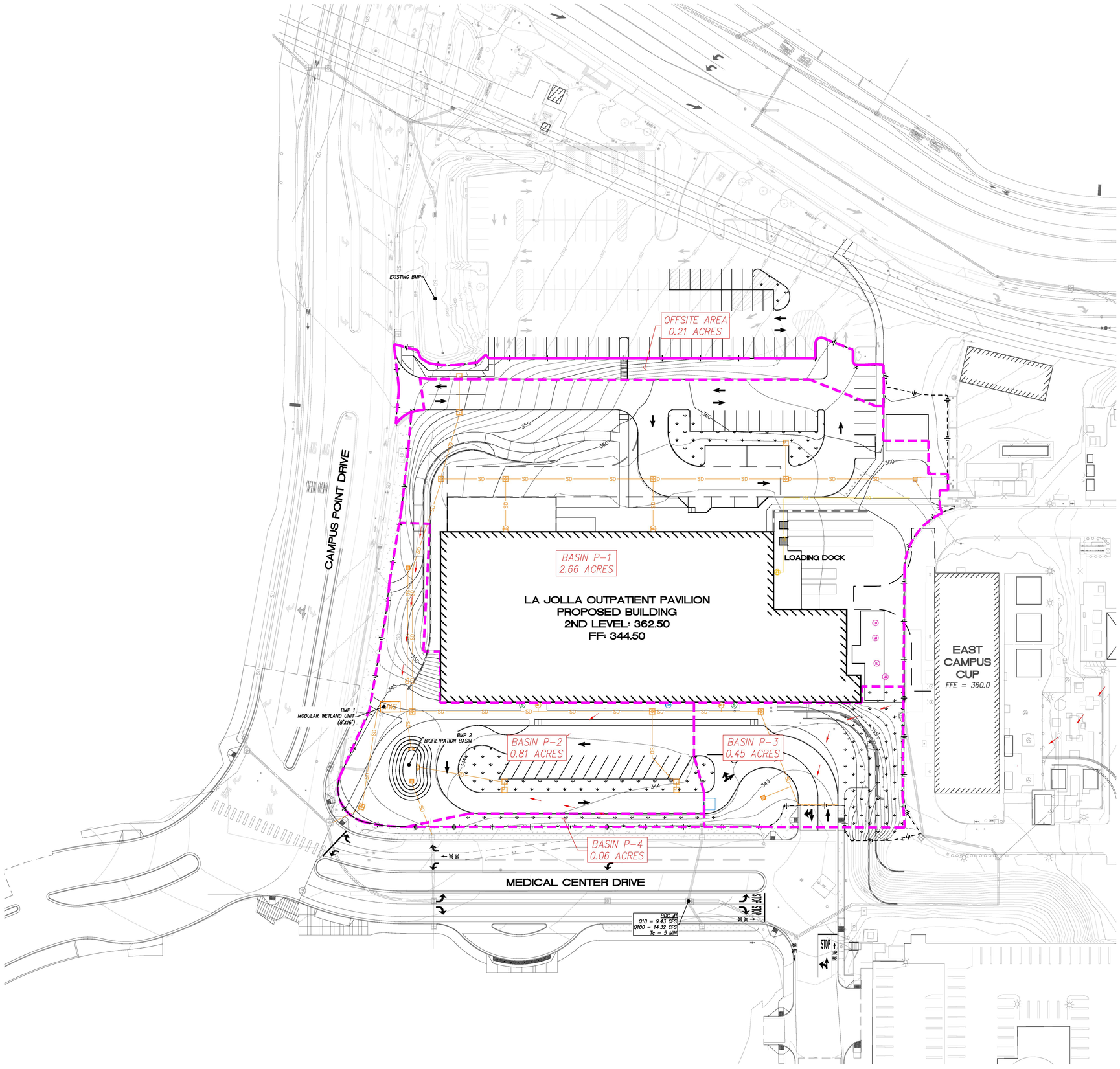
Table 6

Proposed Condition Hydrology Results

P.O.C #	Area (AC)	10 Year Event (CFS)	100 Year Event (CFS)
1	3.98	11.27 (unmitigated) 9.43 (mitigated)	16.91 (unmitigated) 14.32 (mitigated)

More detailed hydrology calculations for the proposed condition can be found in **Appendix B.**

Figure 3 – Proposed Condition Hydrology Exhibit



LEGEND

- PROPOSED HYDROLOGY BASIN BOUNDARY
- EXISTING STORM DRAIN < 12"
- EXISTING STORM DRAIN 12" AND LARGER
- EXISTING STORM DRAIN FLOW DIRECTION
- PROPOSED STORM DRAIN (SD)
- PROPOSED BIOFILTRATION BASIN
- DRAINAGE FLOW DIRECTION
- PROPOSED PERVIOUS AREA
- BASIN NUMBER AND AREA — BASIN P-1 / X.XX ACRES

N

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.

5671 UC SAN DIEGO LA JOLLA OUTPATIENT PAVILION
DPP PROPOSED DRAINAGE EXHIBIT

SCALE:	NOTED		
DATE:	04-10-2026	DRAWN BY:	E.A.
JOB NO.:	2044.3	CHECKED BY:	A.V.
SHEET:	2 OF 2		

latitude 33
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Tel 858.751.0633

UC San Diego

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6. Conclusion

This drainage report has been prepared to quantify the hydrologic demands associated with all the development of the La Jolla Medical Center Outpatient Pavilion.

A biofiltration basin was sized to attenuate post-project peak flow rates to pre-project levels for the 10-year and 100-year 6-hour storm events. By including a biofiltration basin, the post-project peak flows will be reduced to below pre-project levels. The analysis demonstrates that the mitigated proposed condition of the site meets all hydrologic requirements of the County of San Diego and UC San Diego by lowering the proposed flow rate to match the existing condition. Furthermore, all on-site storms drain infrastructure has been designed to meet or exceed County of San Diego Drainage Design guidelines.

Appendix A – Existing Conditions Modeling Results

Existing Hydrology Calculations

P6 10 year = 1.5
P6 100 year = 2.25

D = 5 mins

EQUATION

$I = 7.44 P_6 D^{-0.645}$

I = Intensity (in/hr)
P_6 = 6-Hour Precipitation (in)
D = Duration (min)

I 10, 6 hr = 3.95
I 100, 6 yr = 5.93

Basin	Area (SF)	Area (AC)	% Impervious	C (per weighted runoff coefficient)	I (10yr, 6 hr)	I (100yr, 6 hr)	**Q10**	**Q100**
E-1	170,828	3.92	64	0.70	3.95	5.93	10.88	16.32
Total	170,828	3.92					**10.88**	**16.32**

Appendix B – Proposed Condition Modeling Results

Proposed Hydrology Calculations

P6 10 year = 1.5
P6 100 year = 2.25

D = 5 mins

EQUATION

$I = 7.44\ P_6\ D^{-0.645}$

I = Intensity (in/hr)
P_6 = 6-Hour Precipitation (in)
D = Duration (min)

I 10, 6 hr = 3.95
I 100, 6 yr = 5.93

Basin	Area (SF)	Area (AC)	% Impervious	C (per weighted runoff coefficient)	I (10yr, 6 hr)	I (100yr, 6 hr)	Q10	**Q10 detained**	Q100	**Q100 detained**
P-1	116,076	2.66	78	0.78	3.95	5.93	8.20	8.20	12.30	12.30
P-2	35,402	0.81	49	0.62	3.95	5.93	1.99	0.14	2.98	0.39
P-3	19,489	0.45	39	0.57	3.95	5.93	1.00	1.00	1.50	1.50
P-4	2,648	0.06	0	0.35	3.95	5.93	0.08	0.08	0.13	0.13
Total	173,615	3.98					11.27	**9.43**	16.91	**14.32**

Appendix C – Hydrograph and Peak Flow Detention Results

10-Year Peak Flow Basin Detention

Project Summary	
Title	10 - Year Storm Detention
Engineer	
Company	
Date	4/7/2026

Notes

Table of Contents

	User Notifications	2
	Master Network Summary	3
CM-1	Read Hydrograph	4
O-1	Addition Summary	5
PO-1 (OUT)	Time vs. Elevation	6
PO-1	Time vs. Volume	8
PO-1		
	Elevation-Area Volume Curve	10
	Volume Equations	11
Composite Outlet Structure - 1		
	Outlet Input Data	12
	Individual Outlet Curves	14
	Composite Rating Curve	23
Outlet-2		
	Diverted Hydrograph	27
PO-1		
	Elevation-Volume-Flow Table (Pond)	29
PO-1 (IN)		
	Level Pool Pond Routing Summary	31
PO-1 (OUT)		
	Pond Routed Hydrograph (total out)	32
PO-1 (IN)		
	Pond Inflow Summary	34

10-Year Peak Flow Basin Detention

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)
CM-1	Base	0	0.066	245.000	1.99

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)
O-1	Base	0	0.028	341.000	0.09

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-1 (IN)	Base	0	0.066	245.000	1.99	(N/A)	(N/A)
PO-1 (OUT)	Base	0	0.028	341.000	0.09	2.33	0.041

10-Year Peak Flow Basin Detention

Subsection: Read Hydrograph
Scenario: Base
Label: CM-1

Peak Discharge	1.99 ft³/s
Time to Peak	245.000 min
Hydrograph Volume	0.066 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 5.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
0.000	0.00	0.00	0.00	0.00	0.00
25.000	0.00	0.00	0.00	0.00	0.10
50.000	0.10	0.10	0.10	0.10	0.10
75.000	0.10	0.10	0.10	0.10	0.10
100.000	0.10	0.10	0.10	0.10	0.10
125.000	0.10	0.10	0.10	0.10	0.10
150.000	0.10	0.10	0.10	0.10	0.10
175.000	0.10	0.10	0.10	0.10	0.10
200.000	0.10	0.10	0.20	0.20	0.20
225.000	0.20	0.30	0.40	0.50	1.99
250.000	0.30	0.20	0.20	0.10	0.10
275.000	0.10	0.10	0.10	0.10	0.10
300.000	0.10	0.10	0.10	0.10	0.10
325.000	0.10	0.10	0.10	0.10	0.00
350.000	0.00	0.00	0.00	0.00	(N/A)

10-Year Peak Flow Basin Detention

Subsection: Addition Summary Scenario: Base

Label: O-1

Summary for Hydrograph Addition at 'O-1'

Upstream Link	Upstream Node
Outlet-2	PO-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	Outlet-2	0.028	341.000	0.09
Flow (In)	O-1	0.028	341.000	0.09

10-Year Peak Flow Basin Detention

Subsection: Time vs. Elevation
Scenario: Base
Label: PO-1 (OUT)

Time vs. Elevation (ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00
5.000	0.00	0.00	0.00	0.00	0.00
10.000	0.00	0.00	0.00	0.00	0.00
15.000	0.00	0.00	0.00	0.00	0.00
20.000	0.00	0.00	0.00	0.00	0.00
25.000	0.00	0.00	0.00	0.00	0.00
30.000	0.00	0.00	0.00	0.00	0.00
35.000	0.00	0.00	0.00	0.00	0.00
40.000	0.00	0.00	0.01	0.01	0.02
45.000	0.03	0.05	0.06	0.07	0.08
50.000	0.10	0.11	0.12	0.13	0.14
55.000	0.15	0.16	0.17	0.18	0.19
60.000	0.20	0.21	0.22	0.23	0.24
65.000	0.25	0.26	0.27	0.27	0.28
70.000	0.29	0.30	0.31	0.32	0.33
75.000	0.33	0.34	0.35	0.36	0.36
80.000	0.37	0.38	0.39	0.39	0.40
85.000	0.41	0.42	0.42	0.43	0.44
90.000	0.44	0.45	0.46	0.47	0.47
95.000	0.48	0.49	0.49	0.50	0.50
100.000	0.51	0.52	0.52	0.53	0.54
105.000	0.54	0.55	0.55	0.56	0.57
110.000	0.57	0.58	0.58	0.59	0.60
115.000	0.60	0.61	0.61	0.62	0.62
120.000	0.63	0.64	0.64	0.65	0.65
125.000	0.66	0.66	0.67	0.67	0.68
130.000	0.68	0.69	0.69	0.70	0.70
135.000	0.71	0.71	0.72	0.72	0.73
140.000	0.73	0.74	0.74	0.75	0.75
145.000	0.76	0.76	0.77	0.77	0.78
150.000	0.78	0.79	0.79	0.80	0.80
155.000	0.81	0.81	0.81	0.82	0.82
160.000	0.83	0.83	0.84	0.84	0.85
165.000	0.85	0.85	0.86	0.86	0.87
170.000	0.87	0.88	0.88	0.88	0.89
175.000	0.89	0.90	0.90	0.90	0.91
180.000	0.91	0.92	0.92	0.92	0.93
185.000	0.93	0.94	0.94	0.94	0.95
190.000	0.95	0.96	0.96	0.96	0.97
195.000	0.97	0.97	0.98	0.98	0.99
200.000	0.99	0.99	1.00	1.00	1.00

10-Year Peak Flow Basin Detention

Subsection: Time vs. Elevation
Scenario: Base
Label: PO-1 (OUT)

Time vs. Elevation (ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
205.000	1.01	1.01	1.02	1.03	1.03
210.000	1.05	1.06	1.07	1.08	1.09
215.000	1.10	1.11	1.13	1.14	1.15
220.000	1.16	1.17	1.18	1.19	1.20
225.000	1.21	1.22	1.24	1.25	1.27
230.000	1.28	1.30	1.32	1.34	1.37
235.000	1.39	1.41	1.44	1.47	1.49
240.000	1.52	1.56	1.62	1.70	1.79
245.000	1.90	2.00	2.08	2.14	2.18
250.000	2.20	2.21	2.22	2.23	2.23
255.000	2.24	2.25	2.25	2.26	2.26
260.000	2.27	2.28	2.28	2.28	2.28
265.000	2.29	2.29	2.29	2.29	2.29
270.000	2.29	2.29	2.29	2.29	2.29
275.000	2.29	2.29	2.29	2.29	2.29
280.000	2.30	2.30	2.30	2.30	2.30
285.000	2.30	2.30	2.30	2.30	2.30
290.000	2.30	2.30	2.30	2.30	2.30
295.000	2.30	2.31	2.31	2.31	2.31
300.000	2.31	2.31	2.31	2.31	2.31
305.000	2.31	2.31	2.31	2.31	2.31
310.000	2.31	2.31	2.31	2.32	2.32
315.000	2.32	2.32	2.32	2.32	2.32
320.000	2.32	2.32	2.32	2.32	2.32
325.000	2.32	2.32	2.32	2.32	2.32
330.000	2.32	2.33	2.33	2.33	2.33
335.000	2.33	2.33	2.33	2.33	2.33
340.000	2.33	2.33	2.33	2.33	2.32
345.000	2.32	2.32	2.31	2.31	2.30
350.000	2.30	2.29	2.29	2.28	2.28
355.000	2.27	2.27	2.27	2.26	2.26
360.000	2.25	2.25	2.24	2.24	2.23
365.000	2.23	2.22	2.22	2.21	2.21
370.000	2.21	2.20	2.20	2.19	2.19

10-Year Peak Flow Basin Detention

Subsection: Time vs. Volume
Scenario: Base
Label: PO-1

Time vs. Volume (ac-ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
15.000	0.000	0.000	0.000	0.000	0.000
20.000	0.000	0.000	0.000	0.000	0.000
25.000	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.001	0.001	0.001
50.000	0.001	0.001	0.001	0.001	0.001
55.000	0.002	0.002	0.002	0.002	0.002
60.000	0.002	0.002	0.002	0.002	0.003
65.000	0.003	0.003	0.003	0.003	0.003
70.000	0.003	0.003	0.003	0.003	0.004
75.000	0.004	0.004	0.004	0.004	0.004
80.000	0.004	0.004	0.004	0.004	0.004
85.000	0.005	0.005	0.005	0.005	0.005
90.000	0.005	0.005	0.005	0.005	0.005
95.000	0.005	0.006	0.006	0.006	0.006
100.000	0.006	0.006	0.006	0.006	0.006
105.000	0.006	0.006	0.006	0.007	0.007
110.000	0.007	0.007	0.007	0.007	0.007
115.000	0.007	0.007	0.007	0.007	0.007
120.000	0.007	0.008	0.008	0.008	0.008
125.000	0.008	0.008	0.008	0.008	0.008
130.000	0.008	0.008	0.008	0.008	0.009
135.000	0.009	0.009	0.009	0.009	0.009
140.000	0.009	0.009	0.009	0.009	0.009
145.000	0.009	0.009	0.009	0.010	0.010
150.000	0.010	0.010	0.010	0.010	0.010
155.000	0.010	0.010	0.010	0.010	0.010
160.000	0.010	0.010	0.010	0.011	0.011
165.000	0.011	0.011	0.011	0.011	0.011
170.000	0.011	0.011	0.011	0.011	0.011
175.000	0.011	0.011	0.011	0.011	0.012
180.000	0.012	0.012	0.012	0.012	0.012
185.000	0.012	0.012	0.012	0.012	0.012
190.000	0.012	0.012	0.012	0.012	0.012
195.000	0.013	0.013	0.013	0.013	0.013
200.000	0.013	0.013	0.013	0.013	0.013

10-Year Peak Flow Basin Detention

Subsection: Time vs. Volume Scenario: Base

Label: PO-1

Time vs. Volume (ac-ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
205.000	0.013	0.013	0.013	0.013	0.014
210.000	0.014	0.014	0.014	0.014	0.015
215.000	0.015	0.015	0.015	0.015	0.015
220.000	0.016	0.016	0.016	0.016	0.016
225.000	0.017	0.017	0.017	0.017	0.018
230.000	0.018	0.018	0.019	0.019	0.019
235.000	0.020	0.020	0.021	0.021	0.022
240.000	0.022	0.023	0.024	0.026	0.028
245.000	0.031	0.033	0.035	0.036	0.037
250.000	0.038	0.038	0.038	0.039	0.039
255.000	0.039	0.039	0.039	0.039	0.040
260.000	0.040	0.040	0.040	0.040	0.040
265.000	0.040	0.040	0.040	0.040	0.040
270.000	0.040	0.040	0.040	0.040	0.040
275.000	0.040	0.040	0.040	0.040	0.040
280.000	0.040	0.040	0.040	0.040	0.040
285.000	0.040	0.041	0.041	0.041	0.041
290.000	0.041	0.041	0.041	0.041	0.041
295.000	0.041	0.041	0.041	0.041	0.041
300.000	0.041	0.041	0.041	0.041	0.041
305.000	0.041	0.041	0.041	0.041	0.041
310.000	0.041	0.041	0.041	0.041	0.041
315.000	0.041	0.041	0.041	0.041	0.041
320.000	0.041	0.041	0.041	0.041	0.041
325.000	0.041	0.041	0.041	0.041	0.041
330.000	0.041	0.041	0.041	0.041	0.041
335.000	0.041	0.041	0.041	0.041	0.041
340.000	0.041	0.041	0.041	0.041	0.041
345.000	0.041	0.041	0.041	0.041	0.041
350.000	0.040	0.040	0.040	0.040	0.040
355.000	0.040	0.040	0.040	0.040	0.039
360.000	0.039	0.039	0.039	0.039	0.039
365.000	0.039	0.039	0.038	0.038	0.038
370.000	0.038	0.038	0.038	0.038	0.038

10-Year Peak Flow Basin Detention

Subsection: Elevation-Area Volume Curve Scenario: Base

Label: PO-1

Elevation (ft)	Planimeter (ft²)	Area (ft²)	A1+A2+sqr (A1*A2) (ft²)	Volume (ac-ft)	Volume (Total) (ac-ft)
0.00	0.0	437.000	0.000	0.000	0.000
3.50	0.0	1,667.000	2,957.510	0.079	0.079

Pond Volume Equations
*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

Volume = (1/3) * (EL2 - El1) * (Area1 + Area2 + sqr(Area1 * Area2))

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

10-Year Peak Flow Basin Detention

Subsection: Outlet Input Data Scenario: Base

Label: Composite Outlet Structure - 1

Requested Pond Water Surface Elevations	
Minimum (Headwater)	0.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	3.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	TW	2.50	3.50
Orifice-Circular	Orifice - 2	Forward	TW	0.00	3.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

10-Year Peak Flow Basin Detention

Subsection: Outlet Input Data Scenario: Base

Label: Composite Outlet Structure - 1

Structure ID: Orifice - 2 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	0.00 ft
Orifice Diameter	1.5 in
Orifice Coefficient	0.600

Structure ID: Riser - 1 Structure Type: Inlet Box	
Number of Openings	1
Elevation	2.50 ft
Orifice Area	4.0 ft²
Orifice Coefficient	0.600
Weir Length	2.00 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
0.00	0.00	(N/A)	0.00
0.05	0.00	(N/A)	0.00
0.10	0.01	(N/A)	0.00
0.15	0.02	(N/A)	0.00
0.20	0.02	(N/A)	0.00
0.25	0.03	(N/A)	0.00
0.30	0.03	(N/A)	0.00
0.35	0.03	(N/A)	0.00
0.40	0.03	(N/A)	0.00
0.45	0.04	(N/A)	0.00
0.50	0.04	(N/A)	0.00
0.55	0.04	(N/A)	0.00
0.60	0.04	(N/A)	0.00
0.65	0.05	(N/A)	0.00
0.70	0.05	(N/A)	0.00
0.75	0.05	(N/A)	0.00
0.80	0.05	(N/A)	0.00
0.85	0.05	(N/A)	0.00
0.90	0.05	(N/A)	0.00
0.95	0.06	(N/A)	0.00
1.00	0.06	(N/A)	0.00
1.05	0.06	(N/A)	0.00
1.10	0.06	(N/A)	0.00
1.15	0.06	(N/A)	0.00
1.20	0.06	(N/A)	0.00
1.25	0.06	(N/A)	0.00
1.30	0.07	(N/A)	0.00
1.35	0.07	(N/A)	0.00
1.40	0.07	(N/A)	0.00
1.45	0.07	(N/A)	0.00
1.50	0.07	(N/A)	0.00
1.55	0.07	(N/A)	0.00
1.60	0.07	(N/A)	0.00
1.65	0.07	(N/A)	0.00
1.70	0.08	(N/A)	0.00
1.75	0.08	(N/A)	0.00
1.80	0.08	(N/A)	0.00

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1.85	0.08	(N/A)	0.00
1.90	0.08	(N/A)	0.00
1.95	0.08	(N/A)	0.00
2.00	0.08	(N/A)	0.00
2.05	0.08	(N/A)	0.00
2.10	0.08	(N/A)	0.00
2.15	0.09	(N/A)	0.00
2.20	0.09	(N/A)	0.00
2.25	0.09	(N/A)	0.00
2.30	0.09	(N/A)	0.00
2.35	0.09	(N/A)	0.00
2.40	0.09	(N/A)	0.00
2.45	0.09	(N/A)	0.00
2.50	0.09	(N/A)	0.00
2.55	0.09	(N/A)	0.00
2.60	0.09	(N/A)	0.00
2.65	0.10	(N/A)	0.00
2.70	0.10	(N/A)	0.00
2.75	0.10	(N/A)	0.00
2.80	0.10	(N/A)	0.00
2.85	0.10	(N/A)	0.00
2.90	0.10	(N/A)	0.00
2.95	0.10	(N/A)	0.00
3.00	0.10	(N/A)	0.00
3.05	0.10	(N/A)	0.00
3.10	0.10	(N/A)	0.00
3.15	0.10	(N/A)	0.00
3.20	0.10	(N/A)	0.00
3.25	0.11	(N/A)	0.00
3.30	0.11	(N/A)	0.00
3.35	0.11	(N/A)	0.00
3.40	0.11	(N/A)	0.00
3.45	0.11	(N/A)	0.00
3.50	0.11	(N/A)	0.00

Computation Messages
Upstream HW & DNstream TW < Inv.El

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
CRIT.DEPTH CONTROL
Vh= .019ft Dcr= .031ft
CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL
Vh= .029ft Dcr= .070ft
CRIT.DEPTH Hev= .00ft
H =.09
H =.14
H =.19
H =.24
H =.29
H =.34
H =.39
H =.44
H =.49
H =.54
H =.59
H =.64
H =.69
H =.74
H =.79
H =.84
H =.89
H =.94
H =.99
H =1.04
H =1.09
H =1.14
H =1.19
H =1.24
H =1.29
H =1.34
H =1.39
H =1.44
H =1.49
H =1.54
H =1.59
H =1.64
H =1.69
H =1.74

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 2 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
H =1.79
H =1.84
H =1.89
H =1.94
H =1.99
H =2.04
H =2.09
H =2.14
H =2.19
H =2.24
H =2.29
H =2.34
H =2.39
H =2.44
H =2.49
H =2.54
H =2.59
H =2.64
H =2.69
H =2.74
H =2.79
H =2.84
H =2.89
H =2.94
H =2.99
H =3.04
H =3.09
H =3.14
H =3.19
H =3.24
H =3.29
H =3.34
H =3.39
H =3.44

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
0.00	0.00	(N/A)	0.00
0.05	0.00	(N/A)	0.00
0.10	0.00	(N/A)	0.00
0.15	0.00	(N/A)	0.00
0.20	0.00	(N/A)	0.00
0.25	0.00	(N/A)	0.00
0.30	0.00	(N/A)	0.00
0.35	0.00	(N/A)	0.00
0.40	0.00	(N/A)	0.00
0.45	0.00	(N/A)	0.00
0.50	0.00	(N/A)	0.00
0.55	0.00	(N/A)	0.00
0.60	0.00	(N/A)	0.00
0.65	0.00	(N/A)	0.00
0.70	0.00	(N/A)	0.00
0.75	0.00	(N/A)	0.00
0.80	0.00	(N/A)	0.00
0.85	0.00	(N/A)	0.00
0.90	0.00	(N/A)	0.00
0.95	0.00	(N/A)	0.00
1.00	0.00	(N/A)	0.00
1.05	0.00	(N/A)	0.00
1.10	0.00	(N/A)	0.00
1.15	0.00	(N/A)	0.00
1.20	0.00	(N/A)	0.00
1.25	0.00	(N/A)	0.00
1.30	0.00	(N/A)	0.00
1.35	0.00	(N/A)	0.00
1.40	0.00	(N/A)	0.00
1.45	0.00	(N/A)	0.00
1.50	0.00	(N/A)	0.00
1.55	0.00	(N/A)	0.00
1.60	0.00	(N/A)	0.00
1.65	0.00	(N/A)	0.00
1.70	0.00	(N/A)	0.00
1.75	0.00	(N/A)	0.00
1.80	0.00	(N/A)	0.00

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
1.85	0.00	(N/A)	0.00
1.90	0.00	(N/A)	0.00
1.95	0.00	(N/A)	0.00
2.00	0.00	(N/A)	0.00
2.05	0.00	(N/A)	0.00
2.10	0.00	(N/A)	0.00
2.15	0.00	(N/A)	0.00
2.20	0.00	(N/A)	0.00
2.25	0.00	(N/A)	0.00
2.30	0.00	(N/A)	0.00
2.35	0.00	(N/A)	0.00
2.40	0.00	(N/A)	0.00
2.45	0.00	(N/A)	0.00
2.50	0.00	(N/A)	0.00
2.55	0.07	(N/A)	0.00
2.60	0.19	(N/A)	0.00
2.65	0.35	(N/A)	0.00
2.70	0.54	(N/A)	0.00
2.75	0.75	(N/A)	0.00
2.80	0.99	(N/A)	0.00
2.85	1.24	(N/A)	0.00
2.90	1.52	(N/A)	0.00
2.95	1.81	(N/A)	0.00
3.00	2.12	(N/A)	0.00
3.05	2.45	(N/A)	0.00
3.10	2.79	(N/A)	0.00
3.15	3.14	(N/A)	0.00
3.20	3.51	(N/A)	0.00
3.25	3.90	(N/A)	0.00
3.30	4.29	(N/A)	0.00
3.35	4.70	(N/A)	0.00
3.40	5.12	(N/A)	0.00
3.45	5.56	(N/A)	0.00
3.50	6.00	(N/A)	0.00

Computation Messages

HW & TW < Inv.El.=2.500

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500

10-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Riser - 1 (Inlet Box)

Upstream ID = (Pond Water Surface)
Downstream ID = Tailwater (Pond Outfall)

Computation Messages
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
HW & TW < Inv.El.=2.500
Weir: H =0ft
Weir: H =0.05ft
Weir: H =0.1ft
Weir: H =0.15ft
Weir: H =0.2ft
Weir: H =0.25ft
Weir: H =0.3ft
Weir: H =0.35ft
Weir: H =0.4ft
Weir: H =0.45ft
Weir: H =0.5ft
Weir: H =0.55ft
Weir: H =0.6ft
Weir: H =0.65ft
Weir: H =0.7ft
Weir: H =0.75ft
Weir: H =0.8ft
Weir: H =0.85ft
Weir: H =0.9ft
Weir: H =0.95ft
Weir: H =1ft

10-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
0.00	0.00	(N/A)	0.00
0.05	0.00	(N/A)	0.00
0.10	0.01	(N/A)	0.00
0.15	0.02	(N/A)	0.00
0.20	0.02	(N/A)	0.00
0.25	0.03	(N/A)	0.00
0.30	0.03	(N/A)	0.00
0.35	0.03	(N/A)	0.00
0.40	0.03	(N/A)	0.00
0.45	0.04	(N/A)	0.00
0.50	0.04	(N/A)	0.00
0.55	0.04	(N/A)	0.00
0.60	0.04	(N/A)	0.00
0.65	0.05	(N/A)	0.00
0.70	0.05	(N/A)	0.00
0.75	0.05	(N/A)	0.00
0.80	0.05	(N/A)	0.00
0.85	0.05	(N/A)	0.00
0.90	0.05	(N/A)	0.00
0.95	0.06	(N/A)	0.00
1.00	0.06	(N/A)	0.00
1.05	0.06	(N/A)	0.00
1.10	0.06	(N/A)	0.00
1.15	0.06	(N/A)	0.00
1.20	0.06	(N/A)	0.00
1.25	0.06	(N/A)	0.00
1.30	0.07	(N/A)	0.00
1.35	0.07	(N/A)	0.00
1.40	0.07	(N/A)	0.00
1.45	0.07	(N/A)	0.00
1.50	0.07	(N/A)	0.00
1.55	0.07	(N/A)	0.00
1.60	0.07	(N/A)	0.00
1.65	0.07	(N/A)	0.00
1.70	0.08	(N/A)	0.00
1.75	0.08	(N/A)	0.00
1.80	0.08	(N/A)	0.00
1.85	0.08	(N/A)	0.00
1.90	0.08	(N/A)	0.00
1.95	0.08	(N/A)	0.00
2.00	0.08	(N/A)	0.00
2.05	0.08	(N/A)	0.00
2.10	0.08	(N/A)	0.00

10-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
2.15	0.09	(N/A)	0.00
2.20	0.09	(N/A)	0.00
2.25	0.09	(N/A)	0.00
2.30	0.09	(N/A)	0.00
2.35	0.09	(N/A)	0.00
2.40	0.09	(N/A)	0.00
2.45	0.09	(N/A)	0.00
2.50	0.09	(N/A)	0.00
2.55	0.16	(N/A)	0.00
2.60	0.28	(N/A)	0.00
2.65	0.44	(N/A)	0.00
2.70	0.63	(N/A)	0.00
2.75	0.85	(N/A)	0.00
2.80	1.08	(N/A)	0.00
2.85	1.34	(N/A)	0.00
2.90	1.62	(N/A)	0.00
2.95	1.91	(N/A)	0.00
3.00	2.22	(N/A)	0.00
3.05	2.55	(N/A)	0.00
3.10	2.89	(N/A)	0.00
3.15	3.25	(N/A)	0.00
3.20	3.62	(N/A)	0.00
3.25	4.00	(N/A)	0.00
3.30	4.40	(N/A)	0.00
3.35	4.81	(N/A)	0.00
3.40	5.23	(N/A)	0.00
3.45	5.66	(N/A)	0.00
3.50	6.11	(N/A)	0.00

Contributing Structures
None Contributing
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2

10-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Contributing Structures
Orifice - 2
Orifice - 2
Orifice - 2

10-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Contributing Structures
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2

10-Year Peak Flow Basin Detention

Subsection: Diverted Hydrograph
Scenario: Base
Label: Outlet-2

Peak Discharge	0.09 ft³/s
Time to Peak	341.000 min
Hydrograph Volume	0.028 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
43.000	0.00	0.00	0.00	0.00	0.00
48.000	0.01	0.01	0.01	0.01	0.01
53.000	0.01	0.02	0.02	0.02	0.02
58.000	0.02	0.02	0.02	0.02	0.02
63.000	0.02	0.02	0.03	0.03	0.03
68.000	0.03	0.03	0.03	0.03	0.03
73.000	0.03	0.03	0.03	0.03	0.03
78.000	0.03	0.03	0.03	0.03	0.03
83.000	0.03	0.03	0.03	0.04	0.04
88.000	0.04	0.04	0.04	0.04	0.04
93.000	0.04	0.04	0.04	0.04	0.04
98.000	0.04	0.04	0.04	0.04	0.04
103.000	0.04	0.04	0.04	0.04	0.04
108.000	0.04	0.04	0.04	0.04	0.04
113.000	0.04	0.04	0.04	0.04	0.04
118.000	0.04	0.04	0.04	0.04	0.04
123.000	0.05	0.05	0.05	0.05	0.05
128.000	0.05	0.05	0.05	0.05	0.05
133.000	0.05	0.05	0.05	0.05	0.05
138.000	0.05	0.05	0.05	0.05	0.05
143.000	0.05	0.05	0.05	0.05	0.05
148.000	0.05	0.05	0.05	0.05	0.05
153.000	0.05	0.05	0.05	0.05	0.05
158.000	0.05	0.05	0.05	0.05	0.05
163.000	0.05	0.05	0.05	0.05	0.05
168.000	0.05	0.05	0.05	0.05	0.05
173.000	0.05	0.05	0.05	0.05	0.05
178.000	0.05	0.05	0.05	0.05	0.05
183.000	0.05	0.05	0.06	0.06	0.06
188.000	0.06	0.06	0.06	0.06	0.06
193.000	0.06	0.06	0.06	0.06	0.06
198.000	0.06	0.06	0.06	0.06	0.06
203.000	0.06	0.06	0.06	0.06	0.06
208.000	0.06	0.06	0.06	0.06	0.06
213.000	0.06	0.06	0.06	0.06	0.06
218.000	0.06	0.06	0.06	0.06	0.06
223.000	0.06	0.06	0.06	0.06	0.06

10-Year Peak Flow Basin Detention

Subsection: Diverted Hydrograph
Scenario: Base
Label: Outlet-2

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
228.000	0.06	0.06	0.07	0.07	0.07
233.000	0.07	0.07	0.07	0.07	0.07
238.000	0.07	0.07	0.07	0.07	0.07
243.000	0.08	0.08	0.08	0.08	0.08
248.000	0.09	0.09	0.09	0.09	0.09
253.000	0.09	0.09	0.09	0.09	0.09
258.000	0.09	0.09	0.09	0.09	0.09
263.000	0.09	0.09	0.09	0.09	0.09
268.000	0.09	0.09	0.09	0.09	0.09
273.000	0.09	0.09	0.09	0.09	0.09
278.000	0.09	0.09	0.09	0.09	0.09
283.000	0.09	0.09	0.09	0.09	0.09
288.000	0.09	0.09	0.09	0.09	0.09
293.000	0.09	0.09	0.09	0.09	0.09
298.000	0.09	0.09	0.09	0.09	0.09
303.000	0.09	0.09	0.09	0.09	0.09
308.000	0.09	0.09	0.09	0.09	0.09
313.000	0.09	0.09	0.09	0.09	0.09
318.000	0.09	0.09	0.09	0.09	0.09
323.000	0.09	0.09	0.09	0.09	0.09
328.000	0.09	0.09	0.09	0.09	0.09
333.000	0.09	0.09	0.09	0.09	0.09
338.000	0.09	0.09	0.09	0.09	0.09
343.000	0.09	0.09	0.09	0.09	0.09
348.000	0.09	0.09	0.09	0.09	0.09
353.000	0.09	0.09	0.09	0.09	0.09
358.000	0.09	0.09	0.09	0.09	0.09
363.000	0.09	0.09	0.09	0.09	0.09
368.000	0.09	0.09	0.09	0.09	0.09
373.000	0.09	0.09	(N/A)	(N/A)	(N/A)

10-Year Peak Flow Basin Detention

Subsection: Elevation-Volume-Flow Table (Pond) Scenario: Base

Label: PO-1

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	0.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Elevation (ft)	Outflow (ft³/s)	Storage (ac-ft)	Area (ft²)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
0.00	0.00	0.000	437.000	0.00	0.00	0.00
0.05	0.00	0.001	448.981	0.00	0.00	0.74
0.10	0.01	0.001	461.125	0.00	0.01	1.51
0.15	0.02	0.002	473.430	0.00	0.02	2.29
0.20	0.02	0.002	485.897	0.00	0.02	3.10
0.25	0.03	0.003	498.527	0.00	0.03	3.92
0.30	0.03	0.003	511.318	0.00	0.03	4.77
0.35	0.03	0.004	524.272	0.00	0.03	5.63
0.40	0.03	0.004	537.387	0.00	0.03	6.52
0.45	0.04	0.005	550.665	0.00	0.04	7.43
0.50	0.04	0.006	564.104	0.00	0.04	8.36
0.55	0.04	0.006	577.706	0.00	0.04	9.31
0.60	0.04	0.007	591.470	0.00	0.04	10.29
0.65	0.05	0.008	605.395	0.00	0.05	11.29
0.70	0.05	0.008	619.483	0.00	0.05	12.31
0.75	0.05	0.009	633.733	0.00	0.05	13.36
0.80	0.05	0.010	648.145	0.00	0.05	14.43
0.85	0.05	0.011	662.719	0.00	0.05	15.52
0.90	0.05	0.011	677.454	0.00	0.05	16.64
0.95	0.06	0.012	692.352	0.00	0.06	17.78
1.00	0.06	0.013	707.412	0.00	0.06	18.95
1.05	0.06	0.014	722.634	0.00	0.06	20.14
1.10	0.06	0.015	738.018	0.00	0.06	21.36
1.15	0.06	0.016	753.564	0.00	0.06	22.61
1.20	0.06	0.016	769.272	0.00	0.06	23.88
1.25	0.06	0.017	785.142	0.00	0.06	25.17
1.30	0.07	0.018	801.174	0.00	0.07	26.50
1.35	0.07	0.019	817.369	0.00	0.07	27.85
1.40	0.07	0.020	833.725	0.00	0.07	29.22

10-Year Peak Flow Basin Detention

Subsection: Elevation-Volume-Flow Table (Pond) Scenario: Base

Label: PO-1

Elevation (ft)	Outflow (ft³/s)	Storage (ac-ft)	Area (ft²)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
1.45	0.07	0.021	850.243	0.00	0.07	30.63
1.50	0.07	0.022	866.923	0.00	0.07	32.06
1.55	0.07	0.023	883.765	0.00	0.07	33.52
1.60	0.07	0.024	900.770	0.00	0.07	35.01
1.65	0.07	0.025	917.936	0.00	0.07	36.53
1.70	0.08	0.026	935.264	0.00	0.08	38.07
1.75	0.08	0.027	952.755	0.00	0.08	39.65
1.80	0.08	0.028	970.407	0.00	0.08	41.25
1.85	0.08	0.029	988.222	0.00	0.08	42.88
1.90	0.08	0.031	1,006.198	0.00	0.08	44.55
1.95	0.08	0.032	1,024.337	0.00	0.08	46.24
2.00	0.08	0.033	1,042.637	0.00	0.08	47.96
2.05	0.08	0.034	1,061.100	0.00	0.08	49.72
2.10	0.08	0.035	1,079.725	0.00	0.08	51.50
2.15	0.09	0.037	1,098.511	0.00	0.09	53.32
2.20	0.09	0.038	1,117.460	0.00	0.09	55.17
2.25	0.09	0.039	1,136.571	0.00	0.09	57.05
2.30	0.09	0.041	1,155.844	0.00	0.09	58.96
2.35	0.09	0.042	1,175.278	0.00	0.09	60.90
2.40	0.09	0.043	1,194.875	0.00	0.09	62.88
2.45	0.09	0.045	1,214.634	0.00	0.09	64.89
2.50	0.09	0.046	1,234.555	0.00	0.09	66.93
2.55	0.16	0.047	1,254.638	0.00	0.16	69.07
2.60	0.28	0.049	1,274.883	0.00	0.28	71.30
2.65	0.44	0.050	1,295.290	0.00	0.44	73.60
2.70	0.63	0.052	1,315.859	0.00	0.63	75.97
2.75	0.85	0.053	1,336.590	0.00	0.85	78.39
2.80	1.08	0.055	1,357.483	0.00	1.08	80.87
2.85	1.34	0.057	1,378.538	0.00	1.34	83.41
2.90	1.62	0.058	1,399.755	0.00	1.62	86.00
2.95	1.91	0.060	1,421.135	0.00	1.91	88.65
3.00	2.22	0.061	1,442.676	0.00	2.22	91.35
3.05	2.55	0.063	1,464.379	0.00	2.55	94.09
3.10	2.89	0.065	1,486.244	0.00	2.89	96.90
3.15	3.25	0.066	1,508.272	0.00	3.25	99.75
3.20	3.62	0.068	1,530.461	0.00	3.62	102.65
3.25	4.00	0.070	1,552.813	0.00	4.00	105.60
3.30	4.40	0.072	1,575.326	0.00	4.40	108.61
3.35	4.81	0.074	1,598.001	0.00	4.81	111.66
3.40	5.23	0.075	1,620.839	0.00	5.23	114.77
3.45	5.66	0.077	1,643.838	0.00	5.66	117.92
3.50	6.11	0.079	1,667.000	0.00	6.11	121.12

10-Year Peak Flow Basin Detention

Subsection: Level Pool Pond Routing Summary
Scenario: Base
Label: PO-1 (IN)

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	0.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.99 ft³/s	Time to Peak (Flow, In)	245.000 min
Flow (Peak Outlet)	0.09 ft³/s	Time to Peak (Flow, Outlet)	341.000 min

Elevation (Water Surface, Peak)	2.33 ft
Volume (Peak)	0.041 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.066 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.028 ac-ft
Volume (Retained)	0.037 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.2 %

10-Year Peak Flow Basin Detention

Subsection: Pond Routed Hydrograph (total out) Scenario: Base

Label: PO-1 (OUT)

Peak Discharge	0.09 ft³/s
Time to Peak	341.000 min
Hydrograph Volume	0.028 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
43.000	0.00	0.00	0.00	0.00	0.00
48.000	0.01	0.01	0.01	0.01	0.01
53.000	0.01	0.02	0.02	0.02	0.02
58.000	0.02	0.02	0.02	0.02	0.02
63.000	0.02	0.02	0.03	0.03	0.03
68.000	0.03	0.03	0.03	0.03	0.03
73.000	0.03	0.03	0.03	0.03	0.03
78.000	0.03	0.03	0.03	0.03	0.03
83.000	0.03	0.03	0.03	0.04	0.04
88.000	0.04	0.04	0.04	0.04	0.04
93.000	0.04	0.04	0.04	0.04	0.04
98.000	0.04	0.04	0.04	0.04	0.04
103.000	0.04	0.04	0.04	0.04	0.04
108.000	0.04	0.04	0.04	0.04	0.04
113.000	0.04	0.04	0.04	0.04	0.04
118.000	0.04	0.04	0.04	0.04	0.04
123.000	0.05	0.05	0.05	0.05	0.05
128.000	0.05	0.05	0.05	0.05	0.05
133.000	0.05	0.05	0.05	0.05	0.05
138.000	0.05	0.05	0.05	0.05	0.05
143.000	0.05	0.05	0.05	0.05	0.05
148.000	0.05	0.05	0.05	0.05	0.05
153.000	0.05	0.05	0.05	0.05	0.05
158.000	0.05	0.05	0.05	0.05	0.05
163.000	0.05	0.05	0.05	0.05	0.05
168.000	0.05	0.05	0.05	0.05	0.05
173.000	0.05	0.05	0.05	0.05	0.05
178.000	0.05	0.05	0.05	0.05	0.05
183.000	0.05	0.05	0.06	0.06	0.06
188.000	0.06	0.06	0.06	0.06	0.06
193.000	0.06	0.06	0.06	0.06	0.06
198.000	0.06	0.06	0.06	0.06	0.06
203.000	0.06	0.06	0.06	0.06	0.06
208.000	0.06	0.06	0.06	0.06	0.06
213.000	0.06	0.06	0.06	0.06	0.06
218.000	0.06	0.06	0.06	0.06	0.06
223.000	0.06	0.06	0.06	0.06	0.06

10-Year Peak Flow Basin Detention

Subsection: Pond Routed Hydrograph (total out) Scenario: Base

Label: PO-1 (OUT)

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
228.000	0.06	0.06	0.07	0.07	0.07
233.000	0.07	0.07	0.07	0.07	0.07
238.000	0.07	0.07	0.07	0.07	0.07
243.000	0.08	0.08	0.08	0.08	0.08
248.000	0.09	0.09	0.09	0.09	0.09
253.000	0.09	0.09	0.09	0.09	0.09
258.000	0.09	0.09	0.09	0.09	0.09
263.000	0.09	0.09	0.09	0.09	0.09
268.000	0.09	0.09	0.09	0.09	0.09
273.000	0.09	0.09	0.09	0.09	0.09
278.000	0.09	0.09	0.09	0.09	0.09
283.000	0.09	0.09	0.09	0.09	0.09
288.000	0.09	0.09	0.09	0.09	0.09
293.000	0.09	0.09	0.09	0.09	0.09
298.000	0.09	0.09	0.09	0.09	0.09
303.000	0.09	0.09	0.09	0.09	0.09
308.000	0.09	0.09	0.09	0.09	0.09
313.000	0.09	0.09	0.09	0.09	0.09
318.000	0.09	0.09	0.09	0.09	0.09
323.000	0.09	0.09	0.09	0.09	0.09
328.000	0.09	0.09	0.09	0.09	0.09
333.000	0.09	0.09	0.09	0.09	0.09
338.000	0.09	0.09	0.09	0.09	0.09
343.000	0.09	0.09	0.09	0.09	0.09
348.000	0.09	0.09	0.09	0.09	0.09
353.000	0.09	0.09	0.09	0.09	0.09
358.000	0.09	0.09	0.09	0.09	0.09
363.000	0.09	0.09	0.09	0.09	0.09
368.000	0.09	0.09	0.09	0.09	0.09
373.000	0.09	0.09	(N/A)	(N/A)	(N/A)

10-Year Peak Flow Basin Detention

Subsection: Pond Inflow Summary Scenario: Base

Label: PO-1 (IN)

Summary for Hydrograph Addition at 'PO-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	CM-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	CM-1	0.066	245.000	1.99
Flow (In)	PO-1	0.066	245.000	1.99

10-Year Peak Flow Basin Detention

Index

C

CM-1 (Read Hydrograph)...

Composite Outlet Structure - 1 (Composite Rating Curve)...

Composite Outlet Structure - 1 (Individual Outlet Curves)...

Composite Outlet Structure - 1 (Outlet Input Data)...

Composite Rating Curve...23, 24, 25, 26

M

Master Network Summary...3

O

O-1 (Addition Summary)...

Outlet Input Data...12, 13

Outlet-2 (Diverted Hydrograph)...

P

PO-1 (Elevation-Area Volume Curve)...

PO-1 (Elevation-Volume-Flow Table (Pond))...

PO-1 (IN) (Level Pool Pond Routing Summary)...

PO-1 (IN) (Pond Inflow Summary)...

PO-1 (OUT) (Pond Routed Hydrograph (total out))...

PO-1 (OUT) (Time vs. Elevation)...

PO-1 (Time vs. Volume)...

PO-1 (Volume Equations)...

Pond Inflow Summary...34

Pond Routed Hydrograph (total out)...32, 33

U

User Notifications...2

RATIONAL METHOD HYDROGRAPH PROGRAM
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RUN DATE 4/8/2026
HYDROGRAPH FILE NAME Text1
TIME OF CONCENTRATION 5 MIN.
6 HOUR RAINFALL 1.5 INCHES
BASIN AREA 0.81 ACRES
RUNOFF COEFFICIENT 0.62
PEAK DISCHARGE 1.99 CFS

TIME (MIN) = 0	DISCHARGE (CFS) = 0
TIME (MIN) = 5	DISCHARGE (CFS) = 0
TIME (MIN) = 10	DISCHARGE (CFS) = 0
TIME (MIN) = 15	DISCHARGE (CFS) = 0
TIME (MIN) = 20	DISCHARGE (CFS) = 0
TIME (MIN) = 25	DISCHARGE (CFS) = 0
TIME (MIN) = 30	DISCHARGE (CFS) = 0
TIME (MIN) = 35	DISCHARGE (CFS) = 0
TIME (MIN) = 40	DISCHARGE (CFS) = 0
TIME (MIN) = 45	DISCHARGE (CFS) = 0.1
TIME (MIN) = 50	DISCHARGE (CFS) = 0.1
TIME (MIN) = 55	DISCHARGE (CFS) = 0.1
TIME (MIN) = 60	DISCHARGE (CFS) = 0.1
TIME (MIN) = 65	DISCHARGE (CFS) = 0.1
TIME (MIN) = 70	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 80	DISCHARGE (CFS) = 0.1
TIME (MIN) = 85	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 95	DISCHARGE (CFS) = 0.1
TIME (MIN) = 100	DISCHARGE (CFS) = 0.1
TIME (MIN) = 105	DISCHARGE (CFS) = 0.1
TIME (MIN) = 110	DISCHARGE (CFS) = 0.1
TIME (MIN) = 115	DISCHARGE (CFS) = 0.1
TIME (MIN) = 120	DISCHARGE (CFS) = 0.1
TIME (MIN) = 125	DISCHARGE (CFS) = 0.1
TIME (MIN) = 130	DISCHARGE (CFS) = 0.1
TIME (MIN) = 135	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 150	DISCHARGE (CFS) = 0.1
TIME (MIN) = 155	DISCHARGE (CFS) = 0.1
TIME (MIN) = 160	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 185	DISCHARGE (CFS) = 0.1
TIME (MIN) = 190	DISCHARGE (CFS) = 0.1
TIME (MIN) = 195	DISCHARGE (CFS) = 0.1
TIME (MIN) = 200	DISCHARGE (CFS) = 0.1
TIME (MIN) = 205	DISCHARGE (CFS) = 0.1
TIME (MIN) = 210	DISCHARGE (CFS) = 0.2
TIME (MIN) = 215	DISCHARGE (CFS) = 0.2
TIME (MIN) = 220	DISCHARGE (CFS) = 0.2
TIME (MIN) = 225	DISCHARGE (CFS) = 0.2
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TIME (MIN) = 235	DISCHARGE (CFS) = 0.4
TIME (MIN) = 240	DISCHARGE (CFS) = 0.5
TIME (MIN) = 245	DISCHARGE (CFS) = 1.99
TIME (MIN) = 250	DISCHARGE (CFS) = 0.3
TIME (MIN) = 255	DISCHARGE (CFS) = 0.2
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TIME (MIN) = 265	DISCHARGE (CFS) = 0.1
TIME (MIN) = 270	DISCHARGE (CFS) = 0.1
TIME (MIN) = 275	DISCHARGE (CFS) = 0.1
TIME (MIN) = 280	DISCHARGE (CFS) = 0.1
TIME (MIN) = 285	DISCHARGE (CFS) = 0.1
TIME (MIN) = 290	DISCHARGE (CFS) = 0.1
TIME (MIN) = 295	DISCHARGE (CFS) = 0.1
TIME (MIN) = 300	DISCHARGE (CFS) = 0.1
TIME (MIN) = 305	DISCHARGE (CFS) = 0.1
TIME (MIN) = 310	DISCHARGE (CFS) = 0.1
TIME (MIN) = 315	DISCHARGE (CFS) = 0.1
TIME (MIN) = 320	DISCHARGE (CFS) = 0.1
TIME (MIN) = 325	DISCHARGE (CFS) = 0.1
TIME (MIN) = 330	DISCHARGE (CFS) = 0.1
TIME (MIN) = 335	DISCHARGE (CFS) = 0.1
TIME (MIN) = 340	DISCHARGE (CFS) = 0.1
TIME (MIN) = 345	DISCHARGE (CFS) = 0
TIME (MIN) = 350	DISCHARGE (CFS) = 0
TIME (MIN) = 355	DISCHARGE (CFS) = 0
TIME (MIN) = 360	DISCHARGE (CFS) = 0
TIME (MIN) = 365	DISCHARGE (CFS) = 0

100-Year Peak Flow Basin Detention

Project Summary	
Title	100 - Year Storm Detention
Engineer	
Company	
Date	4/8/2026

Notes

Table of Contents

	User Notifications	2
	Master Network Summary	3
CM-1	Read Hydrograph	4
O-1	Addition Summary	5
PO-1 (OUT)	Time vs. Elevation	6
PO-1	Time vs. Volume	8
PO-1		
	Elevation-Area Volume Curve	10
	Volume Equations	11
Composite Outlet Structure - 1		
	Outlet Input Data	12
	Individual Outlet Curves	14
	Composite Rating Curve	16
Outlet-2		
	Diverted Hydrograph	20
PO-1		
	Elevation-Volume-Flow Table (Pond)	22
PO-1 (IN)		
	Level Pool Pond Routing Summary	24
PO-1 (OUT)		
	Pond Routed Hydrograph (total out)	25
PO-1 (IN)		
	Pond Inflow Summary	27

100-Year Peak Flow Basin Detention

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)
CM-1	Base	0	0.097	245.000	2.98

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)
O-1	Base	0	0.060	253.000	0.39

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-1 (IN)	Base	0	0.097	245.000	2.98	(N/A)	(N/A)
PO-1 (OUT)	Base	0	0.060	253.000	0.39	2.61	0.049

100-Year Peak Flow Basin Detention

Subsection: Read Hydrograph
Scenario: Base
Label: CM-1

Peak Discharge	2.98 ft³/s
Time to Peak	245.000 min
Hydrograph Volume	0.097 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 5.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
0.000	0.00	0.10	0.10	0.10	0.10
25.000	0.10	0.10	0.10	0.10	0.10
50.000	0.10	0.10	0.10	0.10	0.10
75.000	0.10	0.10	0.10	0.10	0.10
100.000	0.10	0.10	0.10	0.10	0.10
125.000	0.10	0.10	0.10	0.10	0.10
150.000	0.10	0.10	0.10	0.10	0.10
175.000	0.20	0.20	0.20	0.20	0.20
200.000	0.20	0.20	0.20	0.30	0.30
225.000	0.40	0.40	0.60	0.80	2.98
250.000	0.50	0.30	0.20	0.20	0.20
275.000	0.20	0.10	0.10	0.10	0.10
300.000	0.10	0.10	0.10	0.10	0.10
325.000	0.10	0.10	0.10	0.10	0.10
350.000	0.10	0.10	0.10	0.00	(N/A)

100-Year Peak Flow Basin Detention

Subsection: Addition Summary | Scenario: Base

Label: O-1

Summary for Hydrograph Addition at 'O-1'

Upstream Link	Upstream Node
Outlet-2	PO-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	Outlet-2	0.060	253.000	0.39
Flow (In)	O-1	0.060	253.000	0.39

100-Year Peak Flow Basin Detention

Subsection: Time vs. Elevation
Scenario: Base
Label: PO-1 (OUT)

Time vs. Elevation (ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	0.00	0.00	0.01	0.01	0.02
5.000	0.03	0.05	0.06	0.07	0.08
10.000	0.10	0.11	0.12	0.13	0.14
15.000	0.15	0.16	0.17	0.18	0.18
20.000	0.19	0.20	0.21	0.22	0.22
25.000	0.23	0.24	0.25	0.25	0.26
30.000	0.27	0.27	0.28	0.28	0.29
35.000	0.30	0.30	0.31	0.31	0.32
40.000	0.33	0.33	0.34	0.34	0.35
45.000	0.35	0.36	0.36	0.37	0.37
50.000	0.38	0.38	0.39	0.39	0.40
55.000	0.40	0.41	0.41	0.42	0.42
60.000	0.42	0.43	0.43	0.44	0.44
65.000	0.44	0.45	0.45	0.46	0.46
70.000	0.46	0.47	0.47	0.48	0.48
75.000	0.48	0.49	0.49	0.49	0.50
80.000	0.50	0.50	0.51	0.51	0.51
85.000	0.52	0.52	0.52	0.53	0.53
90.000	0.53	0.54	0.54	0.54	0.55
95.000	0.55	0.55	0.55	0.56	0.56
100.000	0.56	0.57	0.57	0.57	0.57
105.000	0.58	0.58	0.58	0.58	0.59
110.000	0.59	0.59	0.59	0.60	0.60
115.000	0.60	0.60	0.61	0.61	0.61
120.000	0.61	0.62	0.62	0.62	0.62
125.000	0.63	0.63	0.63	0.63	0.63
130.000	0.64	0.64	0.64	0.64	0.65
135.000	0.65	0.65	0.65	0.65	0.66
140.000	0.66	0.66	0.66	0.66	0.67
145.000	0.67	0.67	0.67	0.67	0.68
150.000	0.68	0.68	0.68	0.68	0.68
155.000	0.69	0.69	0.69	0.69	0.69
160.000	0.70	0.70	0.70	0.70	0.70
165.000	0.70	0.71	0.71	0.71	0.71
170.000	0.71	0.71	0.72	0.73	0.73
175.000	0.74	0.75	0.77	0.78	0.79
180.000	0.80	0.81	0.82	0.83	0.84
185.000	0.85	0.86	0.87	0.88	0.89
190.000	0.89	0.90	0.91	0.92	0.93
195.000	0.94	0.95	0.96	0.97	0.98
200.000	0.98	0.99	1.00	1.01	1.02

100-Year Peak Flow Basin Detention

Subsection: Time vs. Elevation
Scenario: Base
Label: PO-1 (OUT)

Time vs. Elevation (ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
205.000	1.03	1.03	1.04	1.05	1.06
210.000	1.07	1.08	1.09	1.10	1.11
215.000	1.13	1.14	1.16	1.17	1.19
220.000	1.20	1.22	1.23	1.25	1.27
225.000	1.29	1.31	1.33	1.35	1.38
230.000	1.40	1.42	1.44	1.47	1.50
235.000	1.53	1.56	1.60	1.63	1.67
240.000	1.72	1.77	1.85	1.96	2.08
245.000	2.22	2.36	2.46	2.54	2.58
250.000	2.60	2.61	2.61	2.61	2.61
255.000	2.61	2.60	2.60	2.59	2.59
260.000	2.58	2.58	2.57	2.57	2.57
265.000	2.56	2.56	2.56	2.56	2.55
270.000	2.55	2.55	2.55	2.55	2.55
275.000	2.54	2.54	2.54	2.54	2.53
280.000	2.53	2.52	2.52	2.52	2.51
285.000	2.51	2.50	2.50	2.50	2.49
290.000	2.49	2.49	2.49	2.48	2.48
295.000	2.48	2.47	2.47	2.47	2.46
300.000	2.46	2.46	2.45	2.45	2.45
305.000	2.45	2.44	2.44	2.44	2.43
310.000	2.43	2.43	2.42	2.42	2.42
315.000	2.42	2.41	2.41	2.41	2.40
320.000	2.40	2.40	2.39	2.39	2.39
325.000	2.39	2.38	2.38	2.38	2.37
330.000	2.37	2.37	2.36	2.36	2.36
335.000	2.36	2.35	2.35	2.35	2.34
340.000	2.34	2.34	2.33	2.33	2.33
345.000	2.33	2.32	2.32	2.32	2.31
350.000	2.31	2.31	2.31	2.30	2.30
355.000	2.30	2.29	2.29	2.29	2.29
360.000	2.28	2.28	2.27	2.27	2.26
365.000	2.25	2.25	2.24	2.23	2.22
370.000	2.21	2.21	2.20	2.19	2.18

100-Year Peak Flow Basin Detention

Subsection: Time vs. Volume Scenario: Base

Label: PO-1

Time vs. Volume (ac-ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.001	0.001	0.001
10.000	0.001	0.001	0.001	0.001	0.001
15.000	0.002	0.002	0.002	0.002	0.002
20.000	0.002	0.002	0.002	0.002	0.002
25.000	0.002	0.003	0.003	0.003	0.003
30.000	0.003	0.003	0.003	0.003	0.003
35.000	0.003	0.003	0.003	0.003	0.004
40.000	0.004	0.004	0.004	0.004	0.004
45.000	0.004	0.004	0.004	0.004	0.004
50.000	0.004	0.004	0.004	0.004	0.004
55.000	0.004	0.005	0.005	0.005	0.005
60.000	0.005	0.005	0.005	0.005	0.005
65.000	0.005	0.005	0.005	0.005	0.005
70.000	0.005	0.005	0.005	0.005	0.005
75.000	0.006	0.006	0.006	0.006	0.006
80.000	0.006	0.006	0.006	0.006	0.006
85.000	0.006	0.006	0.006	0.006	0.006
90.000	0.006	0.006	0.006	0.006	0.006
95.000	0.006	0.006	0.006	0.006	0.007
100.000	0.007	0.007	0.007	0.007	0.007
105.000	0.007	0.007	0.007	0.007	0.007
110.000	0.007	0.007	0.007	0.007	0.007
115.000	0.007	0.007	0.007	0.007	0.007
120.000	0.007	0.007	0.007	0.007	0.007
125.000	0.007	0.007	0.007	0.008	0.008
130.000	0.008	0.008	0.008	0.008	0.008
135.000	0.008	0.008	0.008	0.008	0.008
140.000	0.008	0.008	0.008	0.008	0.008
145.000	0.008	0.008	0.008	0.008	0.008
150.000	0.008	0.008	0.008	0.008	0.008
155.000	0.008	0.008	0.008	0.008	0.008
160.000	0.008	0.008	0.008	0.008	0.008
165.000	0.008	0.009	0.009	0.009	0.009
170.000	0.009	0.009	0.009	0.009	0.009
175.000	0.009	0.009	0.009	0.010	0.010
180.000	0.010	0.010	0.010	0.010	0.010
185.000	0.011	0.011	0.011	0.011	0.011
190.000	0.011	0.011	0.012	0.012	0.012
195.000	0.012	0.012	0.012	0.012	0.013
200.000	0.013	0.013	0.013	0.013	0.013

100-Year Peak Flow Basin Detention

Subsection: Time vs. Volume
Scenario: Base
Label: PO-1

Time vs. Volume (ac-ft)

Output Time increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
205.000	0.013	0.014	0.014	0.014	0.014
210.000	0.014	0.014	0.014	0.015	0.015
215.000	0.015	0.015	0.016	0.016	0.016
220.000	0.016	0.017	0.017	0.017	0.018
225.000	0.018	0.018	0.019	0.019	0.020
230.000	0.020	0.020	0.021	0.021	0.022
235.000	0.023	0.023	0.024	0.025	0.026
240.000	0.027	0.028	0.030	0.032	0.035
245.000	0.039	0.042	0.045	0.047	0.048
250.000	0.049	0.049	0.049	0.049	0.049
255.000	0.049	0.049	0.049	0.049	0.049
260.000	0.048	0.048	0.048	0.048	0.048
265.000	0.048	0.048	0.048	0.048	0.048
270.000	0.047	0.047	0.047	0.047	0.047
275.000	0.047	0.047	0.047	0.047	0.047
280.000	0.047	0.047	0.047	0.046	0.046
285.000	0.046	0.046	0.046	0.046	0.046
290.000	0.046	0.046	0.046	0.046	0.045
295.000	0.045	0.045	0.045	0.045	0.045
300.000	0.045	0.045	0.045	0.045	0.045
305.000	0.045	0.044	0.044	0.044	0.044
310.000	0.044	0.044	0.044	0.044	0.044
315.000	0.044	0.044	0.044	0.043	0.043
320.000	0.043	0.043	0.043	0.043	0.043
325.000	0.043	0.043	0.043	0.043	0.043
330.000	0.042	0.042	0.042	0.042	0.042
335.000	0.042	0.042	0.042	0.042	0.042
340.000	0.042	0.042	0.041	0.041	0.041
345.000	0.041	0.041	0.041	0.041	0.041
350.000	0.041	0.041	0.041	0.041	0.041
355.000	0.040	0.040	0.040	0.040	0.040
360.000	0.040	0.040	0.040	0.040	0.040
365.000	0.039	0.039	0.039	0.039	0.038
370.000	0.038	0.038	0.038	0.038	0.037

100-Year Peak Flow Basin Detention

Subsection: Elevation-Area Volume Curve Scenario: Base

Label: PO-1

Elevation (ft)	Planimeter (ft²)	Area (ft²)	A1+A2+sqr (A1*A2) (ft²)	Volume (ac-ft)	Volume (Total) (ac-ft)
0.00	0.0	437.000	0.000	0.000	0.000
3.50	0.0	1,667.000	2,957.510	0.079	0.079

Pond Volume Equations
*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

Volume = (1/3) * (EL2 - El1) * (Area1 + Area2 + sqr(Area1 * Area2))

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

100-Year Peak Flow Basin Detention

Subsection: Outlet Input Data Scenario: Base

Label: Composite Outlet Structure - 1

Requested Pond Water Surface Elevations	
Minimum (Headwater)	0.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	3.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	TW	2.50	3.50
Orifice-Circular	Orifice - 2	Forward	TW	0.00	3.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

100-Year Peak Flow Basin Detention

Subsection: Outlet Input Data Scenario: Base

Label: Composite Outlet Structure - 1

Structure ID: Orifice - 2 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	0.00 ft
Orifice Diameter	2.0 in
Orifice Coefficient	0.600

Structure ID: Riser - 1 Structure Type: Inlet Box	
Number of Openings	1
Elevation	2.50 ft
Orifice Area	4.0 ft²
Orifice Coefficient	0.600
Weir Length	2.00 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

100-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

100-Year Peak Flow Basin Detention

Subsection: Individual Outlet Curves
Scenario: Base
Label: Composite Outlet Structure - 1

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = ()

Upstream ID =
Downstream ID =

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
Contributing Structures			

100-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
0.00	0.00	(N/A)	0.00
0.05	0.00	(N/A)	0.00
0.10	0.01	(N/A)	0.00
0.15	0.02	(N/A)	0.00
0.20	0.04	(N/A)	0.00
0.25	0.04	(N/A)	0.00
0.30	0.05	(N/A)	0.00
0.35	0.05	(N/A)	0.00
0.40	0.06	(N/A)	0.00
0.45	0.06	(N/A)	0.00
0.50	0.07	(N/A)	0.00
0.55	0.07	(N/A)	0.00
0.60	0.08	(N/A)	0.00
0.65	0.08	(N/A)	0.00
0.70	0.08	(N/A)	0.00
0.75	0.09	(N/A)	0.00
0.80	0.09	(N/A)	0.00
0.85	0.09	(N/A)	0.00
0.90	0.09	(N/A)	0.00
0.95	0.10	(N/A)	0.00
1.00	0.10	(N/A)	0.00
1.05	0.10	(N/A)	0.00
1.10	0.11	(N/A)	0.00
1.15	0.11	(N/A)	0.00
1.20	0.11	(N/A)	0.00
1.25	0.11	(N/A)	0.00
1.30	0.12	(N/A)	0.00
1.35	0.12	(N/A)	0.00
1.40	0.12	(N/A)	0.00
1.45	0.12	(N/A)	0.00
1.50	0.12	(N/A)	0.00
1.55	0.13	(N/A)	0.00
1.60	0.13	(N/A)	0.00
1.65	0.13	(N/A)	0.00
1.70	0.13	(N/A)	0.00
1.75	0.14	(N/A)	0.00
1.80	0.14	(N/A)	0.00
1.85	0.14	(N/A)	0.00
1.90	0.14	(N/A)	0.00
1.95	0.14	(N/A)	0.00
2.00	0.15	(N/A)	0.00
2.05	0.15	(N/A)	0.00
2.10	0.15	(N/A)	0.00

100-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
2.15	0.15	(N/A)	0.00
2.20	0.15	(N/A)	0.00
2.25	0.15	(N/A)	0.00
2.30	0.16	(N/A)	0.00
2.35	0.16	(N/A)	0.00
2.40	0.16	(N/A)	0.00
2.45	0.16	(N/A)	0.00
2.50	0.16	(N/A)	0.00
2.55	0.23	(N/A)	0.00
2.60	0.36	(N/A)	0.00
2.65	0.52	(N/A)	0.00
2.70	0.71	(N/A)	0.00
2.75	0.92	(N/A)	0.00
2.80	1.16	(N/A)	0.00
2.85	1.42	(N/A)	0.00
2.90	1.69	(N/A)	0.00
2.95	1.99	(N/A)	0.00
3.00	2.30	(N/A)	0.00
3.05	2.63	(N/A)	0.00
3.10	2.97	(N/A)	0.00
3.15	3.33	(N/A)	0.00
3.20	3.70	(N/A)	0.00
3.25	4.08	(N/A)	0.00
3.30	4.48	(N/A)	0.00
3.35	4.89	(N/A)	0.00
3.40	5.31	(N/A)	0.00
3.45	5.75	(N/A)	0.00
3.50	6.19	(N/A)	0.00

Contributing Structures
None Contributing
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2
Orifice - 2

100-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Contributing Structures
Orifice - 2
Orifice - 2
Orifice - 2

100-Year Peak Flow Basin Detention

Subsection: Composite Rating Curve
Scenario: Base
Label: Composite Outlet Structure - 1

Composite Outflow Summary

Contributing Structures
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2
Riser - 1 + Orifice - 2

100-Year Peak Flow Basin Detention

Subsection: Diverted Hydrograph
Scenario: Base
Label: Outlet-2

Peak Discharge	0.39 ft³/s
Time to Peak	253.000 min
Hydrograph Volume	0.060 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
3.000	0.00	0.00	0.00	0.00	0.00
8.000	0.01	0.01	0.01	0.01	0.02
13.000	0.02	0.02	0.02	0.03	0.03
18.000	0.03	0.03	0.03	0.04	0.04
23.000	0.04	0.04	0.04	0.04	0.04
28.000	0.04	0.04	0.04	0.05	0.05
33.000	0.05	0.05	0.05	0.05	0.05
38.000	0.05	0.05	0.05	0.05	0.05
43.000	0.05	0.05	0.05	0.06	0.06
48.000	0.06	0.06	0.06	0.06	0.06
53.000	0.06	0.06	0.06	0.06	0.06
58.000	0.06	0.06	0.06	0.06	0.06
63.000	0.06	0.06	0.06	0.06	0.06
68.000	0.06	0.06	0.06	0.07	0.07
73.000	0.07	0.07	0.07	0.07	0.07
78.000	0.07	0.07	0.07	0.07	0.07
83.000	0.07	0.07	0.07	0.07	0.07
88.000	0.07	0.07	0.07	0.07	0.07
93.000	0.07	0.07	0.07	0.07	0.07
98.000	0.07	0.07	0.07	0.07	0.07
103.000	0.07	0.07	0.07	0.07	0.07
108.000	0.07	0.07	0.07	0.07	0.08
113.000	0.08	0.08	0.08	0.08	0.08
118.000	0.08	0.08	0.08	0.08	0.08
123.000	0.08	0.08	0.08	0.08	0.08
128.000	0.08	0.08	0.08	0.08	0.08
133.000	0.08	0.08	0.08	0.08	0.08
138.000	0.08	0.08	0.08	0.08	0.08
143.000	0.08	0.08	0.08	0.08	0.08
148.000	0.08	0.08	0.08	0.08	0.08
153.000	0.08	0.08	0.08	0.08	0.08
158.000	0.08	0.08	0.08	0.08	0.08
163.000	0.08	0.08	0.08	0.08	0.08
168.000	0.08	0.08	0.08	0.08	0.08
173.000	0.08	0.08	0.09	0.09	0.09
178.000	0.09	0.09	0.09	0.09	0.09
183.000	0.09	0.09	0.09	0.09	0.09

100-Year Peak Flow Basin Detention

Subsection: Diverted Hydrograph
Scenario: Base
Label: Outlet-2

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
188.000	0.09	0.09	0.09	0.10	0.10
193.000	0.10	0.10	0.10	0.10	0.10
198.000	0.10	0.10	0.10	0.10	0.10
203.000	0.10	0.10	0.10	0.10	0.10
208.000	0.10	0.10	0.10	0.10	0.11
213.000	0.11	0.11	0.11	0.11	0.11
218.000	0.11	0.11	0.11	0.11	0.11
223.000	0.11	0.11	0.12	0.12	0.12
228.000	0.12	0.12	0.12	0.12	0.12
233.000	0.12	0.12	0.13	0.13	0.13
238.000	0.13	0.13	0.13	0.14	0.14
243.000	0.14	0.15	0.15	0.16	0.16
248.000	0.21	0.32	0.37	0.38	0.39
253.000	0.39	0.39	0.38	0.37	0.35
258.000	0.34	0.33	0.32	0.30	0.29
263.000	0.28	0.27	0.26	0.26	0.25
268.000	0.25	0.24	0.24	0.23	0.23
273.000	0.23	0.23	0.22	0.22	0.22
278.000	0.21	0.21	0.20	0.20	0.19
283.000	0.18	0.18	0.17	0.17	0.16
288.000	0.16	0.16	0.16	0.16	0.16
293.000	0.16	0.16	0.16	0.16	0.16
298.000	0.16	0.16	0.16	0.16	0.16
303.000	0.16	0.16	0.16	0.16	0.16
308.000	0.16	0.16	0.16	0.16	0.16
313.000	0.16	0.16	0.16	0.16	0.16
318.000	0.16	0.16	0.16	0.16	0.16
323.000	0.16	0.16	0.16	0.16	0.16
328.000	0.16	0.16	0.16	0.16	0.16
333.000	0.16	0.16	0.16	0.16	0.16
338.000	0.16	0.16	0.16	0.16	0.16
343.000	0.16	0.16	0.16	0.16	0.16
348.000	0.16	0.16	0.16	0.16	0.16
353.000	0.16	0.16	0.16	0.16	0.16
358.000	0.16	0.16	0.16	0.16	0.16
363.000	0.16	0.15	0.15	0.15	0.15
368.000	0.15	0.15	0.15	0.15	0.15
373.000	0.15	0.15	(N/A)	(N/A)	(N/A)

100-Year Peak Flow Basin Detention

Subsection: Elevation-Volume-Flow Table (Pond) Scenario: Base

Label: PO-1

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	0.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Elevation (ft)	Outflow (ft³/s)	Storage (ac-ft)	Area (ft²)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
0.00	0.00	0.000	437.000	0.00	0.00	0.00
0.05	0.00	0.001	448.981	0.00	0.00	0.74
0.10	0.01	0.001	461.125	0.00	0.01	1.51
0.15	0.02	0.002	473.430	0.00	0.02	2.30
0.20	0.04	0.002	485.897	0.00	0.04	3.11
0.25	0.04	0.003	498.527	0.00	0.04	3.94
0.30	0.05	0.003	511.318	0.00	0.05	4.79
0.35	0.05	0.004	524.272	0.00	0.05	5.65
0.40	0.06	0.004	537.387	0.00	0.06	6.54
0.45	0.06	0.005	550.665	0.00	0.06	7.45
0.50	0.07	0.006	564.104	0.00	0.07	8.39
0.55	0.07	0.006	577.706	0.00	0.07	9.34
0.60	0.08	0.007	591.470	0.00	0.08	10.32
0.65	0.08	0.008	605.395	0.00	0.08	11.32
0.70	0.08	0.008	619.483	0.00	0.08	12.35
0.75	0.09	0.009	633.733	0.00	0.09	13.39
0.80	0.09	0.010	648.145	0.00	0.09	14.47
0.85	0.09	0.011	662.719	0.00	0.09	15.56
0.90	0.09	0.011	677.454	0.00	0.09	16.68
0.95	0.10	0.012	692.352	0.00	0.10	17.82
1.00	0.10	0.013	707.412	0.00	0.10	18.99
1.05	0.10	0.014	722.634	0.00	0.10	20.19
1.10	0.11	0.015	738.018	0.00	0.11	21.41
1.15	0.11	0.016	753.564	0.00	0.11	22.65
1.20	0.11	0.016	769.272	0.00	0.11	23.93
1.25	0.11	0.017	785.142	0.00	0.11	25.22
1.30	0.12	0.018	801.174	0.00	0.12	26.55
1.35	0.12	0.019	817.369	0.00	0.12	27.90
1.40	0.12	0.020	833.725	0.00	0.12	29.28

100-Year Peak Flow Basin Detention

Subsection: Elevation-Volume-Flow Table (Pond) Scenario: Base

Label: PO-1

Elevation (ft)	Outflow (ft³/s)	Storage (ac-ft)	Area (ft²)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
1.45	0.12	0.021	850.243	0.00	0.12	30.68
1.50	0.12	0.022	866.923	0.00	0.12	32.12
1.55	0.13	0.023	883.765	0.00	0.13	33.58
1.60	0.13	0.024	900.770	0.00	0.13	35.07
1.65	0.13	0.025	917.936	0.00	0.13	36.58
1.70	0.13	0.026	935.264	0.00	0.13	38.13
1.75	0.14	0.027	952.755	0.00	0.14	39.71
1.80	0.14	0.028	970.407	0.00	0.14	41.31
1.85	0.14	0.029	988.222	0.00	0.14	42.94
1.90	0.14	0.031	1,006.198	0.00	0.14	44.61
1.95	0.14	0.032	1,024.337	0.00	0.14	46.30
2.00	0.15	0.033	1,042.637	0.00	0.15	48.03
2.05	0.15	0.034	1,061.100	0.00	0.15	49.78
2.10	0.15	0.035	1,079.725	0.00	0.15	51.57
2.15	0.15	0.037	1,098.511	0.00	0.15	53.38
2.20	0.15	0.038	1,117.460	0.00	0.15	55.23
2.25	0.15	0.039	1,136.571	0.00	0.15	57.11
2.30	0.16	0.041	1,155.844	0.00	0.16	59.02
2.35	0.16	0.042	1,175.278	0.00	0.16	60.97
2.40	0.16	0.043	1,194.875	0.00	0.16	62.95
2.45	0.16	0.045	1,214.634	0.00	0.16	64.96
2.50	0.16	0.046	1,234.555	0.00	0.16	67.00
2.55	0.23	0.047	1,254.638	0.00	0.23	69.14
2.60	0.36	0.049	1,274.883	0.00	0.36	71.37
2.65	0.52	0.050	1,295.290	0.00	0.52	73.68
2.70	0.71	0.052	1,315.859	0.00	0.71	76.04
2.75	0.92	0.053	1,336.590	0.00	0.92	78.47
2.80	1.16	0.055	1,357.483	0.00	1.16	80.95
2.85	1.42	0.057	1,378.538	0.00	1.42	83.49
2.90	1.69	0.058	1,399.755	0.00	1.69	86.08
2.95	1.99	0.060	1,421.135	0.00	1.99	88.73
3.00	2.30	0.061	1,442.676	0.00	2.30	91.42
3.05	2.63	0.063	1,464.379	0.00	2.63	94.17
3.10	2.97	0.065	1,486.244	0.00	2.97	96.98
3.15	3.33	0.066	1,508.272	0.00	3.33	99.83
3.20	3.70	0.068	1,530.461	0.00	3.70	102.73
3.25	4.08	0.070	1,552.813	0.00	4.08	105.69
3.30	4.48	0.072	1,575.326	0.00	4.48	108.69
3.35	4.89	0.074	1,598.001	0.00	4.89	111.74
3.40	5.31	0.075	1,620.839	0.00	5.31	114.85
3.45	5.75	0.077	1,643.838	0.00	5.75	118.00
3.50	6.19	0.079	1,667.000	0.00	6.19	121.21

100-Year Peak Flow Basin Detention

Subsection: Level Pool Pond Routing Summary
Scenario: Base
Label: PO-1 (IN)

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	0.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.98 ft³/s	Time to Peak (Flow, In)	245.000 min
Flow (Peak Outlet)	0.39 ft³/s	Time to Peak (Flow, Outlet)	253.000 min

Elevation (Water Surface, Peak)	2.61 ft
Volume (Peak)	0.049 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.097 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.060 ac-ft
Volume (Retained)	0.037 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.2 %

100-Year Peak Flow Basin Detention

Subsection: Pond Routed Hydrograph (total out) Scenario: Base

Label: PO-1 (OUT)

Peak Discharge	0.39 ft³/s
Time to Peak	253.000 min
Hydrograph Volume	0.060 ac-ft

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
3.000	0.00	0.00	0.00	0.00	0.00
8.000	0.01	0.01	0.01	0.01	0.02
13.000	0.02	0.02	0.02	0.03	0.03
18.000	0.03	0.03	0.03	0.04	0.04
23.000	0.04	0.04	0.04	0.04	0.04
28.000	0.04	0.04	0.04	0.05	0.05
33.000	0.05	0.05	0.05	0.05	0.05
38.000	0.05	0.05	0.05	0.05	0.05
43.000	0.05	0.05	0.05	0.06	0.06
48.000	0.06	0.06	0.06	0.06	0.06
53.000	0.06	0.06	0.06	0.06	0.06
58.000	0.06	0.06	0.06	0.06	0.06
63.000	0.06	0.06	0.06	0.06	0.06
68.000	0.06	0.06	0.06	0.07	0.07
73.000	0.07	0.07	0.07	0.07	0.07
78.000	0.07	0.07	0.07	0.07	0.07
83.000	0.07	0.07	0.07	0.07	0.07
88.000	0.07	0.07	0.07	0.07	0.07
93.000	0.07	0.07	0.07	0.07	0.07
98.000	0.07	0.07	0.07	0.07	0.07
103.000	0.07	0.07	0.07	0.07	0.07
108.000	0.07	0.07	0.07	0.07	0.08
113.000	0.08	0.08	0.08	0.08	0.08
118.000	0.08	0.08	0.08	0.08	0.08
123.000	0.08	0.08	0.08	0.08	0.08
128.000	0.08	0.08	0.08	0.08	0.08
133.000	0.08	0.08	0.08	0.08	0.08
138.000	0.08	0.08	0.08	0.08	0.08
143.000	0.08	0.08	0.08	0.08	0.08
148.000	0.08	0.08	0.08	0.08	0.08
153.000	0.08	0.08	0.08	0.08	0.08
158.000	0.08	0.08	0.08	0.08	0.08
163.000	0.08	0.08	0.08	0.08	0.08
168.000	0.08	0.08	0.08	0.08	0.08
173.000	0.08	0.08	0.09	0.09	0.09
178.000	0.09	0.09	0.09	0.09	0.09
183.000	0.09	0.09	0.09	0.09	0.09

100-Year Peak Flow Basin Detention

Subsection: Pond Routed Hydrograph (total out) Scenario: Base

Label: PO-1 (OUT)

HYDROGRAPH ORDINATES (ft³/s)
Output Time Increment = 1.000 min
Time on left represents time for first value in each row.

Time (min)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)	Flow (ft³/s)
188.000	0.09	0.09	0.09	0.10	0.10
193.000	0.10	0.10	0.10	0.10	0.10
198.000	0.10	0.10	0.10	0.10	0.10
203.000	0.10	0.10	0.10	0.10	0.10
208.000	0.10	0.10	0.10	0.10	0.11
213.000	0.11	0.11	0.11	0.11	0.11
218.000	0.11	0.11	0.11	0.11	0.11
223.000	0.11	0.11	0.12	0.12	0.12
228.000	0.12	0.12	0.12	0.12	0.12
233.000	0.12	0.12	0.13	0.13	0.13
238.000	0.13	0.13	0.13	0.14	0.14
243.000	0.14	0.15	0.15	0.16	0.16
248.000	0.21	0.32	0.37	0.38	0.39
253.000	0.39	0.39	0.38	0.37	0.35
258.000	0.34	0.33	0.32	0.30	0.29
263.000	0.28	0.27	0.26	0.26	0.25
268.000	0.25	0.24	0.24	0.23	0.23
273.000	0.23	0.23	0.22	0.22	0.22
278.000	0.21	0.21	0.20	0.20	0.19
283.000	0.18	0.18	0.17	0.17	0.16
288.000	0.16	0.16	0.16	0.16	0.16
293.000	0.16	0.16	0.16	0.16	0.16
298.000	0.16	0.16	0.16	0.16	0.16
303.000	0.16	0.16	0.16	0.16	0.16
308.000	0.16	0.16	0.16	0.16	0.16
313.000	0.16	0.16	0.16	0.16	0.16
318.000	0.16	0.16	0.16	0.16	0.16
323.000	0.16	0.16	0.16	0.16	0.16
328.000	0.16	0.16	0.16	0.16	0.16
333.000	0.16	0.16	0.16	0.16	0.16
338.000	0.16	0.16	0.16	0.16	0.16
343.000	0.16	0.16	0.16	0.16	0.16
348.000	0.16	0.16	0.16	0.16	0.16
353.000	0.16	0.16	0.16	0.16	0.16
358.000	0.16	0.16	0.16	0.16	0.16
363.000	0.16	0.15	0.15	0.15	0.15
368.000	0.15	0.15	0.15	0.15	0.15
373.000	0.15	0.15	(N/A)	(N/A)	(N/A)

100-Year Peak Flow Basin Detention

Subsection: Pond Inflow Summary
Scenario: Base
Label: PO-1 (IN)

Summary for Hydrograph Addition at 'PO-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	CM-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	CM-1	0.097	245.000	2.98
Flow (In)	PO-1	0.097	245.000	2.98

100-Year Peak Flow Basin Detention

Index

C

CM-1 (Read Hydrograph)...

Composite Outlet Structure - 1 (Composite Rating Curve)...

Composite Outlet Structure - 1 (Individual Outlet Curves)...

Composite Outlet Structure - 1 (Outlet Input Data)...

Composite Rating Curve...16, 17, 18, 19

M

Master Network Summary...3

O

O-1 (Addition Summary)...

Outlet Input Data...12, 13

Outlet-2 (Diverted Hydrograph)...

P

PO-1 (Elevation-Area Volume Curve)...

PO-1 (Elevation-Volume-Flow Table (Pond))...

PO-1 (IN) (Level Pool Pond Routing Summary)...

PO-1 (IN) (Pond Inflow Summary)...

PO-1 (OUT) (Pond Routed Hydrograph (total out))...

PO-1 (OUT) (Time vs. Elevation)...

PO-1 (Time vs. Volume)...

PO-1 (Volume Equations)...

Pond Inflow Summary...27

Pond Routed Hydrograph (total out)...25, 26

U

User Notifications...2

RATIONAL METHOD HYDROGRAPH PROGRAM
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RUN DATE 4/8/2026
HYDROGRAPH FILE NAME Text1
TIME OF CONCENTRATION 5 MIN.
6 HOUR RAINFALL 2.25 INCHES
BASIN AREA 0.81 ACRES
RUNOFF COEFFICIENT 0.62
PEAK DISCHARGE 2.98 CFS

TIME (MIN) = 0	DISCHARGE (CFS) = 0
TIME (MIN) = 5	DISCHARGE (CFS) = 0.1
TIME (MIN) = 10	DISCHARGE (CFS) = 0.1
TIME (MIN) = 15	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 335	DISCHARGE (CFS) = 0.1
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TIME (MIN) = 365	DISCHARGE (CFS) = 0

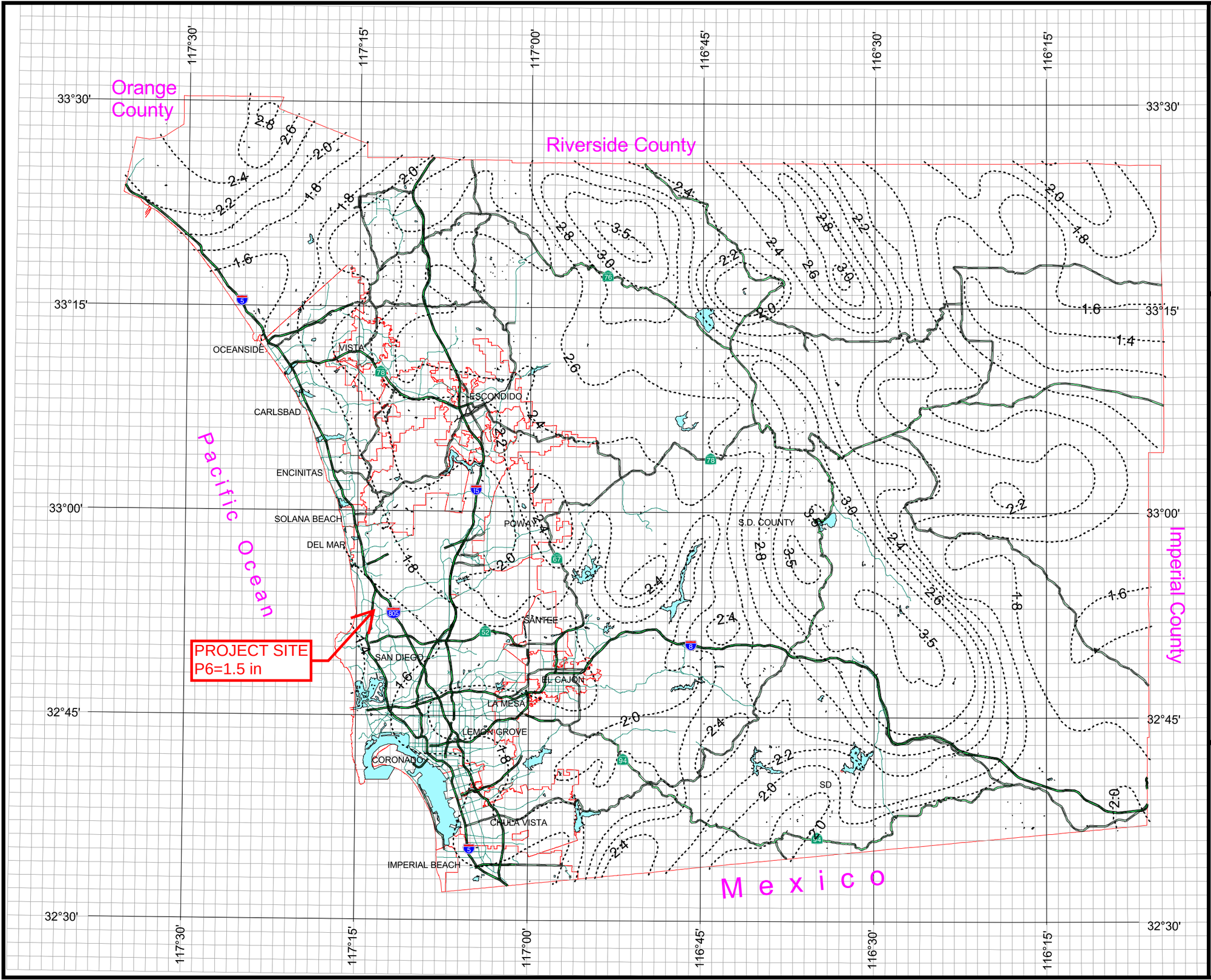
Appendix D – Rainfall Isopluvial Maps

County of San Diego Hydrology Manual

Rainfall Isopluvials

10 Year Rainfall Event - 6 Hours

Isopluvial (inches)



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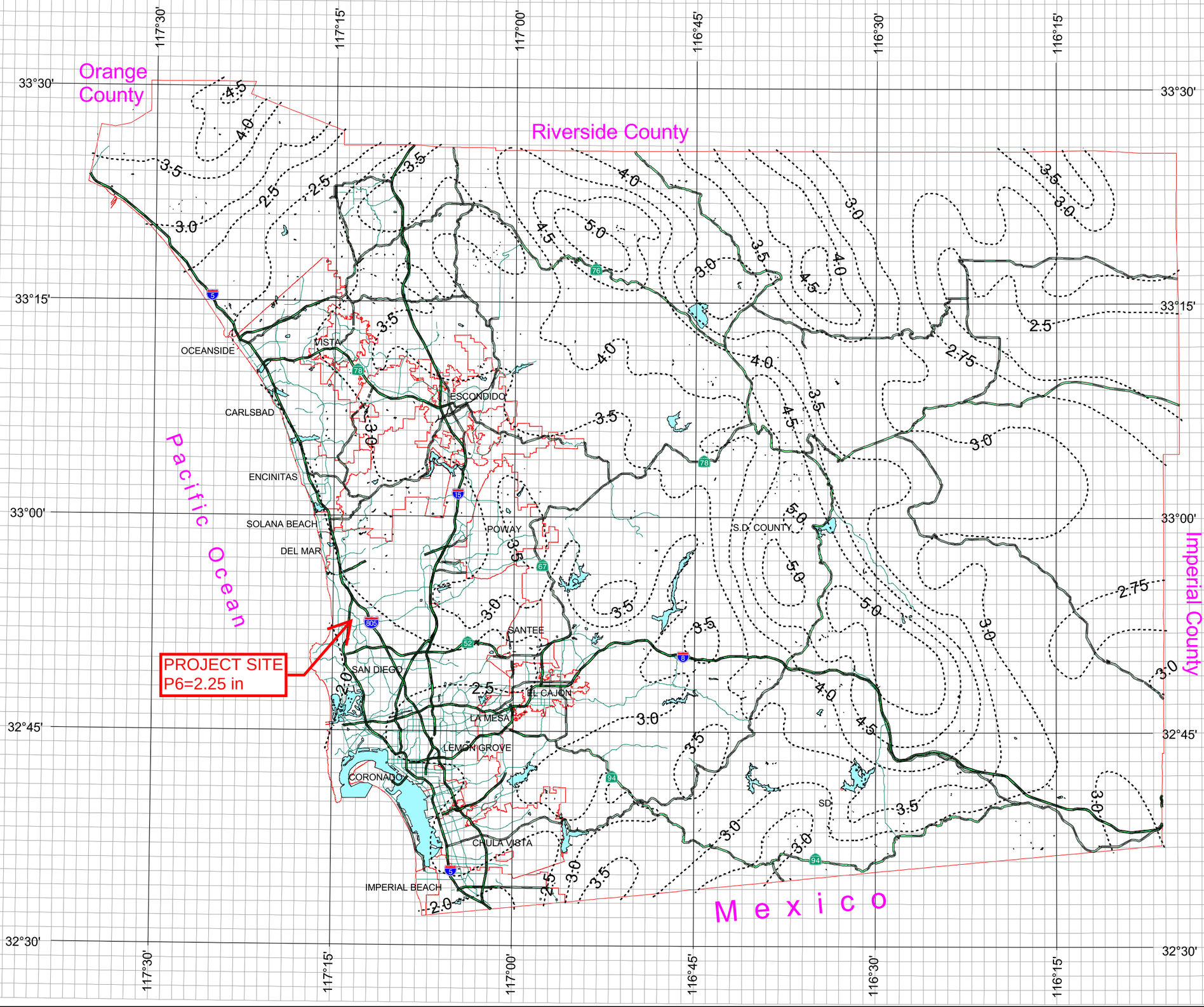
3 0 3 Miles

County of San Diego Hydrology Manual

Rainfall Isopluvials

100 Year Rainfall Event - 6 Hours

Isopluvial (inches)



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Appendix C

Fire & Life Safety Code Report

COFFMAN ENGINEERS

UC SAN DIEGO HEALTH
LA JOLLA OUTPATIENT PAVILION

LA JOLLA, CA

April 20, 2026

FIRE & LIFE SAFETY CODE REPORT
100% SCHEMATIC DESIGN

FOR

UC San Diego Health
La Jolla Outpatient Pavilion
La Jolla, CA

PREPARED BY

Coffman Engineers, Inc.
626 Wilshire Blvd. Suite 700
Los Angeles, Ca 90017

TABLE OF CONTENTS

1. PROJECT SCOPE 3
2. SITE FIRE DEPARTMENT ACCESS & FIRE FLOW 4
3. USE AND OCCUPANCY CLASSIFICATION 6
4. MIXED USE OCCUPANCY CLASSIFICATION 7
5. TYPE OF CONSTRUCTION 7
6. EXTERIOR EXPOSURE PROTECTION 8
7. FIRE-RESISTANCE RATED SEPARATIONS 8
8. VERTICAL OPENINGS 10
9. ELEVATOR HOISTWAY PROTECTION 12
10. GROUP B AMBULATORY CARE FACILITIES REQUIREMENTS 13
11. HAZARDOUS MATERIALS 14
12. MEANS OF EGRESS 16
13. HVAC ISOLATION / SHUTDOWN APPROACH 21
14. AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS 22
15. FIRE ALARM SYSTEM 22
16. EMERGENCY RESPONDER RADIO COVERAGE SYSTEM 22
17. CONCLUSION 22

1. PROJECT SCOPE

Introduction

This fire and life safety code report has been prepared by Coffman Engineers, Inc. to summarize the fire protection and life safety code compliance approach for the UC San Diego La Jolla Outpatient Pavillon located in La Jolla, CA.

Project Description

The project involves construction of a new Outpatient Pavilion (OPP) that is designed and constructed as an OSHPD-3 compliant outpatient and clinic facility licensed pursuant to the Health and Safety Code. The OPP is four stories in height and approximately 180,000 overall gross square feet (OGSF).

The OPP is primarily classified as a Group B occupancy. Portions of the buildings that provide treatment or medical services where patients may be incapable of self-preservation are regulated as Ambulatory Care Facilities (ACFs) in accordance with CBC Section 422.

Areas designated as Ambulatory Care Facilities (ACFs), serving care recipients incapable of self-preservation, will utilize a defend-in-place strategy. During an emergency, patients are relocated by staff from the smoke compartment of fire origin to an adjacent smoke compartment, while staff not involved in relocation, visitors, and ambulatory occupants evacuate via exit stairways. The smoke compartmentation and fire protection system designs described in this report are critical to the success of a defend-in-place emergency response strategy.

Authorities Having Jurisdiction

The Authority Having Jurisdiction is the University of California San Diego (UCSD). UCSD enforces the requirements of the California Building Standards Code (Title 24), which includes the 2025 editions of the California Building Code (CBC) and California Fire Code (CFC). After construction is completed, there are future fire protection and life safety inspections of the OPP that will be conducted by the Center for Medicare and Medicaid Services (CMS), which enforces the requirements of NFPA 101 and NFPA 99. CMS has currently adopted the 2012 editions of NFPA 101 and NFPA 99.

Where codes/standards referenced by the CBC and NFPA 101 impose more restrictive requirements than the CBC or NFPA 101, the more stringent requirements will apply to the project. Unless noted otherwise, all references within this report are to the 2025 CBC.

Applicable Codes and Standards

Applicable codes for the project include the following:

1. 2025 California Building Code (CBC)
2. 2025 California Electrical Code (CEC)
3. 2025 California Mechanical Code (CMC)
4. 2025 California Plumbing Code (CPC)
5. 2025 California Fire Code (CFC)

In addition to the applicable codes shown above, the following standards are applicable to this project as referenced by the 2025 CBC/CFC.

1. NFPA 13, Standard for the Installation of Sprinkler Systems (2025 edition)
2. NFPA 14, Standard for the Installation of Standpipe and Hose Systems (2024 edition)
3. NFPA 24, Standard for the Installation of Private Fire Service Mains and Their Appurtenances (2023 edition)
4. NFPA 25 (California Edition based on the 2013 Edition)
5. NFPA 72, National Fire Alarm and Signaling Code (2025 edition)
6. NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems (2021 edition)
7. NFPA 99, Standard for Healthcare Facilities (2021 edition)
8. NFPA 101, Life Safety Code (2012 edition)
9. NFPA 110, Standard for Emergency and Standby Power Systems (2025 edition)
10. NFPA 1225, Standard for Emergency Services Communications (2022 edition)
11. Other National Fire Protection Association (NFPA) Standards, as referenced by the CBC/CFC.

2. SITE FIRE DEPARTMENT ACCESS & FIRE FLOW

Fire Department Access

Fire department site access must comply with CFC 503 and CFC Appendix D, including aerial apparatus access provisions for buildings where the vertical distance between grade plane and the highest roof exceeds 30 ft (CFC D105.1). Fire department access is required to be maintained for buildings that remain occupied on the project site during construction.

Fire Access Roads: Fire lanes shall be located within 150-ft. of all portions of the exterior walls on grade level when measured by an unobstructed route around the exterior of the building (CFC 503.1.1). Note that the City of San Diego permits the maximum hose pull distance to increase from 150 feet to 200 feet in fully sprinklered buildings, which UCSD has typically allowed to be utilized.

The following roads are designated as fire access roads to serve the OPP. Hose pull distances are maintained below 150-ft. for all portions of the exterior walls on grade.

- North: New parking lot
- East: OPP loading dock / east campus utility plan service road
- South: Medical Center Drive
- West: Campus Point Drive

Aerial Apparatus Access Roads: The OPP roof surface is located greater than 30-ft. above grade such that approved aerial apparatus access roads are required per CFC D105.1. Key requirements are summarized below.

- Minimum Width: Aerial apparatus access roads shall have a minimum clear roadway width of 26-ft. (CFC D105.2).
- Proximity to Building: At least one aerial apparatus access road shall be located not less than 15 feet and not greater than 30 feet from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the fire code official (CFC D105.3).

- Obstructions: Overhead utility and power lines shall not be located over the aerial apparatus access road or between the aerial apparatus road and the building. Other obstructions shall be permitted to be placed with the approval of the fire code official (CFC D105.4).

The aerial apparatus access approach for the OPP is still being coordinated at this phase of the project. It is assumed that UCLA CFM will require compliant aerial apparatus access roads along the majority of the north or south sides. Currently, the north parking lot does not meet the 15-30-ft. setback requirement and the south parking lot is not designed for fire access.

Fire Department Water Supplies

The water supply must be capable of providing the greater between the automatic sprinkler demand (including hose stream allowance) or the required fire flow calculated in accordance with CFC Appendix B. Per CFC B104.3, the fire flow calculation area in Type I buildings shall be the total area of the largest three successive floors.

Using an approximate per-floor area of 50,000 sq. ft., the OPP fire flow calculation area is 150,000 sq. ft. Fire flow per Table B105.1(2) is 4,250 gpm for 4-hours. After applying the 75% reduction for a fully sprinklered building permitted by CFC Table B105.2, the required fire flow can be calculated as 1,062.5 gpm for a duration of 2-hours.

Fire Hydrants

Fire hydrants shall be provided in accordance with CFC 507 and Appendix C. Fire hydrants shall be located within 400-ft. of all portions of the exterior walls on grade when measured by an approved route around the exterior of the building (CFC 507.5.1). UCSD requires a fire hydrant be located within 25-ft. of each fire department connection.

3. USE AND OCCUPANCY CLASSIFICATION

The OPP contains the uses and occupancies summarized in the following table.

Use and Occupancy Classification

Floor	Description of Use	Occupancy Classification
Level 1	Central lobby with registration and waiting area	Group B
	Imaging Department including X-ray, MRI, CT, IR	Group B (Ambulatory Care)
	Urgent Care	Group B
	23-hour stay	Group B (Ambulatory Care)
Level 2	Support spaces including SPD, Materials Management, EVS	Group S-1
	Public Amenities including Café, Pharmacy, Rehab	Group A-2 & B
Level 3	Surgical Services including ORs and perioperative support spaces	Group B (Ambulatory Care)
Level 4	Clinic with exam rooms and X-ray rooms	Group B
	Conference Center	Group A-3

Key considerations related to the occupancy classifications are provided below:

1. Small Assembly Spaces: Spaces with an assembly use (i.e. waiting areas, lounges, group rooms, classrooms, etc.) which are less than 750 sq. ft. or have an occupant load of less than 50 may be classified as Group B occupancies per CBC 303.1.2.
2. Accessory Storage Spaces: Storage and MEP/utility support spaces that are accessory to another occupancy may be classified as part of that occupancy per CBC 311.1.1.
3. Incidental Uses: Incidental uses shall comply with CBC 509. Incidental uses shall not be individually classified in accordance with Section 302.1 but rather shall be included in the building occupancies per CBC 509.2. Incidental use areas are not permitted to occupy more than 10% of the building area of the story in which they are located per CBC 509.3.
4. Group B Ambulatory Care Facilities: Areas of the building providing medical care on less than a 24-hour basis to persons who are rendered incapable of self-preservation by the services provided or staff has accepted responsibility for care recipients already incapable are to be classified as Group B and regulated as Ambulatory Care Facilities in accordance with CBC Section 422. The following programs in the OPP are regulated as “Ambulatory Care Facilities” and subject to the requirements of CBC Section 422.

    - 23-hour stay (Level 1)
    - Imaging Department (Level 1)
    - Outpatient Surgery Department (Level 3)
    - Other areas where persons receiving medical care are incapable of self-preservation

    The OPP will not provide medical care on a 24-hour basis such that a Group I-2 occupancy classification is not applicable for the OPP.

    Per NFPA 101, these spaces are classified as “New Ambulatory Health Care Occupancies” and subject to the requirements of Chapter 20.

4. MIXED USE OCCUPANCY CLASSIFICATION

The OPP is primarily be classified as a Group B occupancy. Other occupancies include Group A-2, Group A-3, and Group S-1. The OPP may utilize a combination of Accessory, Separated, and Non-separated occupancy approaches in accordance with CBC 508.2, 508.3, and 508.4.

With exception of spaces designated as ACFs, all other occupancies within the OPP are regulated under a non-separated mixed use approach in accordance with CBC 508.3. Under a non-separated mixed use approach, the allowable building area, height and number of stories of the building shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1 [CBC 508.3.2]. No separation is required between non-separated occupancies [CBC 508.3.3].

Spaces designated as ACFs with four or more care recipients incapable of self-preservation must be separated from all adjacent spaces by 1-hour fire barriers per CBC 422.2. This separation is required regardless of the occupancy or mixed-use approach.

Note: This assumes that the building will not include Group H occupancies, which may be required for larger medical gas storage rooms where containing large quantities of oxidizing gases. Where a Group H occupancy is required, the Group H occupancy must be regulated under a separated mixed-use occupancy approach in accordance with CBC 508.4.

5. TYPE OF CONSTRUCTION

The OPP is of Type I-B construction and fully sprinklered. For the occupancies contained within the OPP, CBC Chapter 5 permits the building to be 160-ft. in height, 11 stories, and 144,000 sq. ft. per story based on Type I-B construction. Protection of building elements shall comply with the fire-resistance ratings shown in CBC Table 601 for Type I-B construction.

Type I-B construction provides design flexibility of Group A assembly use spaces on the upper levels and allow for the 2-hour floor slab to serve as supporting construction for 2-hour shaft enclosures and/or horizontal exits. The 2-hour floor slab may also be used to serve as the required separation between hazardous material control areas (discussed later in the report).

Type I-B Fire-Resistance Rating Requirements for Building Elements (CBC Table 601)

Building Element		Fire-Resistance Rating (hours)
Structural Frame		2 [a]
Bearing Walls	Exterior	2
	Interior	2
Exterior Non-Bearing Walls/Partitions		0 (See Table 705.5)
Interior Non-Bearing Walls/Partitions		0
Floor Construction		2
Roof Construction		1

[a] Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1-hour where supporting a roof only.

Penthouses: The Roof Level penthouse contains MEP equipment and an elevator machine room. The aggregate area of the enclosed rooftop penthouse does not exceed one-third the area of the supporting roof deck below. The Roof Level complies with the requirements of CBC 1511 and shall be classified as a penthouse. Penthouses do not count to the allowable number of stories or area of the building.

6. EXTERIOR EXPOSURE PROTECTION

The fire-resistance rating and opening requirements for exterior walls are determined based on fire separation distance to a lot line, center of a public way, or established imaginary property line. The fire-resistance rating of exterior walls is based on CBC Table 705.5 and the percentage of unprotected exterior wall openings is based on CBC Table 705.8.

Per CBC Table 705.5 Footnote g, where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the exterior nonbearing walls are permitted to be non-rated. After applying CBC Table 705.5 Footnote G and Table 705.8, the OPP may have non-rated exterior walls having unlimited unprotected openings where the fire-separation distance is greater than 20-ft. measured to an imaginary lot (or total of 40-ft. between adjacent existing buildings).

The East Campus CUP located to the east is approximately 70-ft. from the OPP. There are no other existing buildings/structures in proximity to the OPP. As a result, the OPP exterior walls may be non-rated with unlimited, unprotected exterior wall openings in accordance with CBC Tables 705.8 and 705.5.

7. FIRE-RESISTANCE RATED SEPARATIONS

The following table summarizes applicable interior fire-resistance rated separations for this project.

Interior Fire-Resistance Separation Requirements

Building Element	Fire-Resistance	Code Section
Shaft Enclosures, Interior Exit Stairways, Elevator Hoistway, Elevator Machine Room	2-hour fire barrier	CBC 713.4, 1023.2, 3002.1.1, 3005.4
Emergency Power Room, Telecom Rooms, UPS Room	2-hour fire barrier	CEC 450.21
Normal Power Room, Electrical Rooms Containing Transformers Greater Than 112.5 KVA	1-hour fire barrier	CEC 450.21
Ambulatory Care Facility Separation	1-hour fire barrier	CBC 422.2
Ambulatory Care Facility Smoke Compartments	1-hour smoke barrier	CBC 422.3
Waste and Linen Chute Access Rooms	1-hour fire barrier	CBC 713.13.3
In ambulatory care facilities, waste and linen collection rooms exceeding 50 sq. ft. or having containers with an aggregate volume exceeding 8.67 cu. ft. (Soiled Utility Rooms)	1-hour fire barrier	CBC Table 509
In ambulatory care facilities, storage rooms exceeding 50 sq. ft. (includes Clean Utility Rooms)	1-hour fire barrier	CBC Table 509
Enclosed Elevator Lobbies	Smoke Partition	CBC 3006.3 – Item 2

Corridors: Corridors within the OPP may be non-rated as the building will be fully sprinklered and limited to Group A, B and S occupancies. It is assumed that the Group A occupancies will not involve an occupant load of greater than 100 that would trigger the requirements of CBC Section 1030. This will need to be confirmed during future design phases.

Incidental Uses: Incidental uses shall be separated in accordance with CBC Table 509.1.

- Where Table 509.1 specifies a fire-resistance-rated separation, the incidental uses shall be separated from the remainder of the building by a fire barrier constructed in accordance with Section 707 or a horizontal assembly constructed in accordance with Section 711, or both. [CBC 509.4.1]
- Where CBC Table 509.1 permits an automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. The walls shall extend from the top of the foundation or floor assembly below to the underside of the ceiling that is a component of a fire-resistance rated floor assembly or roof assembly above or to the underside of the floor or roof sheathing, deck or slab above. Doors shall be self- or automatic-closing upon detection of smoke in accordance with Section 716.2.6.6. Doors shall not have air transfer openings and shall not be undercut in excess of the clearance permitted in accordance with NFPA 80. Walls surrounding the incidental use shall not have air transfer openings unless provided with smoke dampers in accordance with Section 710.8. [CBC 509.4.2]

Fire/Smoke Curtains and Sliding Doors: Fire/smoke-rated curtains and fire/smoke-rated horizontal sliding accordion doors may be provided as opening protectives per CBC 716 to maintain continuity of the rated assembly in which they are located. Vertical fire/smoke curtains may only be utilized at locations which are not required for egress. Fire/smoke-rated horizontal sliding accordion doors must also comply with CBC 1010.1.4.3 where required for egress.

Fire/smoke curtains and sliding doors used as opening protection within 1-hour fire partitions shall be tested to UL 10B, 10C, 10D, or NFPA 252 without hose stream (CBC 716.2.2.1).

Fire/smoke curtains and sliding doors used as opening protection within fire barriers shall be tested to UL 10B and NFPA 252 with hose stream. Where the fire barrier also serves as a smoke barrier, the fire/smoke curtains and sliding door shall be tested to UL 1784 for smoke and draft control.

Protection of Penetrations, Joints, Openings, and Duct/Air Transfer Openings: Penetrations, joints, openings, and duct/air transfer openings in fire/smoke-resistance rated separations must be protected in accordance with CBC 714, 715, 716, and 717, respectively. Requirements are applied based on the type of separation, required fire-resistance rating, smoke rating, and occupancy classification. Penetrations and joints in vertical and horizontal smoke barriers require an L-rating (leakage rating) in addition to the applicable fire rating (CBC 714.5.4 and 715.6).

8. VERTICAL OPENINGS

Vertical openings shall comply with one of the protection methods specified by CBC 712.1.1 through 712.1.16 and NFPA 101, 8.6.

Two-Story Vertical Openings – CBC 712.1.9: Unprotected two story vertical openings are permitted in accordance with CBC 712.1.9 where complying with all of the following.

- Does not connect more than two stories.
- Does not penetrate a horizontal assembly that separates fire areas or smoke barriers that separate smoke compartments.
- Is not concealed within the construction of a wall or a floor/ceiling assembly.
- Is not open to a corridor in Group I and R occupancies.
- Is not open to a corridor on nonsprinklered floors.
- Is separated from floor openings and air transfer openings serving other floors by construction conforming to required shaft enclosures.

Two-Story Vertical Openings – NFPA 101, Section 8.6.9.1: NFPA 101, Section 20.3.1 and Section 38.3.1.1 allow a two-story opening classified as “Convenience Opening” in ambulatory healthcare occupancies and business occupancies provided the following requirements of NFPA 101, Section 8.6.9.1 are met.

- The convenience opening does not connect more than two adjacent stories.
- The convenience opening is separated from unprotected vertical openings serving other floors by a 2-hour fire barrier.
- The convenience opening is separated from corridors by at least a smoke partition.

The convenience opening does not serve as a required means of egress. NFPA 101 Annex Section A8.6.9.1(6) clarifies that the intent of this requirement is to prohibit means of egress up or down the convenience opening such as via an unenclosed convenience stairway. This requirement does not prevent means of egress from traveling horizontally through the area with the convenience opening.

Shaft Enclosures: Other vertical openings will be protected as shaft enclosures in accordance with CBC 713. Key requirements are provided below.

- Shaft enclosures connecting four or more stories shall have a fire resistance rating of not less than 2 hours. Shaft enclosures must have a fire-resistance rating of not less than the floor assembly penetrated but need not exceed 2 hours (CBC 713.4).
- Shaft enclosures must be constructed as fire barriers per CBC 707 or horizontal assemblies per CBC 711, or both, as well as the requirements of CBC 713.
- Openings other than those necessary for the purpose of the shaft are not permitted in shaft enclosures. Openings must be protected in accordance with CBC 716 (CBC 713.7).
- Penetrations other than those necessary for the purpose of the shaft are not permitted in shaft enclosures. Penetrations must comply with CBC 714 (CBC 713.8).

Level 1 & 2 Lobby Unprotected Vertical Opening

The OPP includes an unprotected two-story vertical opening in accordance with CBC 712.1.9 that communicates the public lobby areas on Level 1 and Level 2. See below a summary of the code compliance strategy.

Occupancy / Ambulatory Care Facility Designation

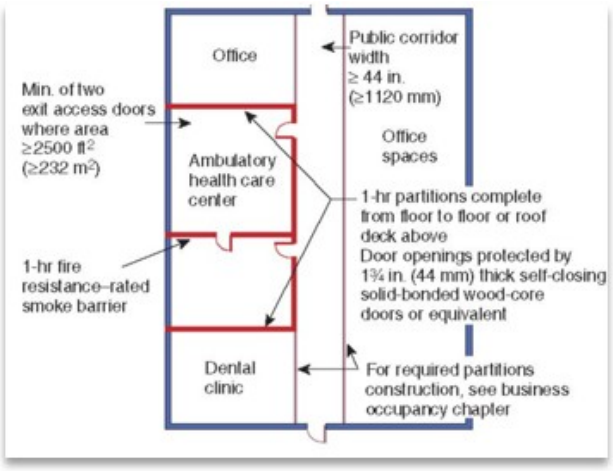
- On Level 1, areas providing medical care on less than a 24-hour basis to persons who are rendered incapable of self-preservation will be classified as Ambulatory Care Facilities (ACFs) and subject to the requirements of CBC 422. These areas include 23-hour stay, Imaging, Nuclear Medicine, and Theragnostics.
- All remaining Level 1 spaces, including the public lobby with the two-story vertical opening, are not classified as ACFs and are not subject to CBC 422 requirements.
- Level 2 does not contain any ACF-designated areas.

ACF Separation

- ACF-designated areas on Level 1 are separated from adjacent non-ACF spaces by minimum 1-hour fire barriers in accordance with CBC 422.2.
- Spaces not classified as ACFs are not subject to additional ambulatory care provisions beyond the required separation.

Smoke Compartmentation

- Smoke compartments are provided within all ACF-designated areas on Level 1 in accordance with CBC 422.3. All required smoke compartment criteria are satisfied entirely within the ACF areas and do not rely on adjacent non-ACF spaces for compliance, including relocation or compartment sizing.
- Non-ACF spaces are not required to be subdivided into smoke compartments. Compliance for these areas is achieved through the required 1-hour fire barrier separation. Smoke compartmentation requirements apply only to ACF areas utilizing a defend-in-place strategy.
- This strategy aligns with NFPA 101 Section 20.3.7.2 which permits adjoining occupancies to serve as smoke compartments only when specific criteria are met, indicating that adjoining occupancies are not otherwise required to be regulated as smoke compartments. Refer to the figure below from the NFPA 101 enhanced content for further clarification.



NFPA 101 enhanced content (for reference only)

Two-Story Unprotected Vertical Opening Findings

The two-story unprotected vertical opening connecting the Level 1 and Level 2 public lobby spaces complies with CBC 712.1.9 as follows:

- Limited to two stories (Level 1 & Level 2)
- Does not penetrate horizontal assemblies that separate fire areas or smoke barriers serving smoke compartment. The vertical opening connects only non-ACF spaces that are not required to be provided with or regulated as smoke compartments.
- Not concealed within construction
- Not open to corridors in Group I or R occupancies
- Building is fully sprinklered
- All other vertical openings in the building are protected by shaft enclosures.

9. ELEVATOR HOISTWAY PROTECTION

Elevator Hoistway Protection

CBC 3006.2 requires elevator hoistway door openings to be protected in accordance with CBC 3006.3 where elevator hoistways connect more than two stories. The applicable options listed in CBC 3006.3 to achieve hoistway protection are provided below.

- Enclosed elevator lobbies constructed using smoke partitions per CBC 710.
- Additional smoke and draft control door assemblies at the elevator hoistway openings.
- Approved and listed smoke containment systems

Level 1 and Level 2 qualify as a “Level of Exit Discharge” per the CBC Definition such that elevator hoistway protection is not required on Level 1 or Level 2 per CBC 3006.2 Exception 2. On Levels 3 – 4, the public elevators will be provided with smoke containment systems per CBC 3006.3 – Item 5. The staff elevators may be protected by enclosed elevator lobbies CBC 3006.3 – Item 2 or smoke containment systems per CBC 3006.3 – Item 5, to be confirmed in the future.

Elevator Hoistway Venting

CBC 3003.4 requires elevator hoistways which contain the driving machine (i.e., machine room-less elevators) be provided with emergency hoistway venting. Each MRL elevator hoistway shall be provided with a means for venting smoke and hot gases in accordance with CBC 3003.4. The vent must be located at the top of the hoistway and must either open directly to the outside or through noncombustible ducts to the outside. Smoke detection is required within the hoistway to activate the hoistway ventilation system and to activate Phase 1 emergency recall operation. Hoistway vents shall automatically open upon detection of smoke in the elevator hoistway and upon activation of a manual override control. The manual override control shall be capable of opening and closing the vents and shall be located in an approved location.

10. GROUP B AMBULATORY CARE FACILITIES REQUIREMENTS

Areas of the building providing medical care on less than a 24-hour basis to persons who are rendered incapable of self-preservation by the services provided or staff has accepted responsibility for care recipients already incapable are to be classified as Group B and regulated as Ambulatory Care Facilities (ACFs) in accordance with CBC 422.

The following areas/programs in the OPP are regulated as Group B ACFs and contain four or more care recipients incapable of self-preservation:

- 23-hour stay (Level 1)
- Imaging Department (Level 1)
- Outpatient Surgery Department (Level 3)
- Other areas where persons receiving medical care are incapable of self-preservation

ACFs are subject to the requirements of CBC 422. Key provisions are summarized below. Note that other areas that of the OPP that are not designated as ACFs are not subject to such requirements.

- Separation [CBC 422.2]: Ambulatory care facilities where the potential for four or more care recipients are to be incapable of self-preservation at any time shall be separated from adjacent spaces with a 1-hour fire barrier installed in accordance with Section 707.
- Smoke Compartments [CBC 422.3]: Where the aggregate area of one or more ambulatory care facilities is greater than 10,000 square feet on one story, the story shall be provided with a smoke barrier to subdivide the story into not fewer than two smoke compartments.
  - The area of any one such smoke compartment shall be not greater than 22,500 sq. ft.
  - The distance of travel from any point in a smoke compartment to a smoke barrier door shall be not greater than 200 feet.
  - The smoke barrier shall be installed in accordance with Section 709 and shall be continuous from outside wall to an outside wall, a floor to a floor, or from a smoke barrier to a smoke barrier or a combination thereof.
  - Where ambulatory care facilities require smoke compartmentation in accordance with Section 422.3, the fire safety evacuation plans provided in accordance with Section 1002.2 shall identify the building components necessary to support a defend-in-place emergency response in accordance with Sections 403 and 404 of the CFC.
  - Not less than 30 net square feet for each nonambulatory care recipient and not less than 15 net square feet per ambulatory occupant shall be provided within the aggregate area of corridors, care recipient rooms, treatment rooms, lounge or dining areas and other low-hazard areas within each smoke compartment. Each occupant of an ambulatory care facility shall be provided with access to a refuge area without passing through or utilizing adjacent tenant spaces.
  - A means of egress shall be provided from each smoke compartment created by smoke barriers without having to return through the smoke compartment from which means of egress originated.
- Exit Access Travel Distance [CBC 422.3.4]: The distance of travel between any point in an ambulatory care facility and an exit shall be not greater than 200 feet.
- Automatic Sprinkler Systems [CBC 422.4]: Automatic sprinkler systems shall be provided for ambulatory care facilities in accordance with Section 903.2.2.

- Fire Alarm Systems [CBC 422.5]: A fire alarm system shall be provided for ambulatory care facilities in accordance with Section 907.2.2.
- Electrical Systems [CBC 422.6]: In ambulatory care facilities, the essential electrical system for electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of Chapter 27 and California Electrical Code Article 517.

11. HAZARDOUS MATERIALS

Control Areas

A “Control Area” is defined by Chapter 2 of the CBC as a space within a building or outside of a building where quantities of hazardous materials not exceeding the maximum allowable quantities per control area are stored, dispensed, used or handled. Control areas are permitted to be classified as any occupancy in accordance with the CBC. All control areas shall comply with the requirements listed under CBC Section 414.2, including those of CBC Table 414.2.2, as summarized below.

CBC Table 414.2.2 – Control Areas (OPP)

Floor Level	Story above / below Grade Plane	Percentage of the Maximum Allowable Quantity Per Control Area	Maximum Number of Control Areas Permitted Per Floor	Minimum Fire-Resistance Rating for Fire Barriers in Hours
Level 4	4	12.5	2	2
Level 3	3	50	2	1
Level 2	2	75	3	1
Level 1	1	100	4	1

At a minimum, each story of the OPP is regulated as a control area in accordance with CBC 414.2 for the purposes of hazardous material use and storage. Additional control areas may be defined on a particular story where permitted by CBC 414.2. CBC Table 414.2.2 defines the maximum number of control areas per floor and the percentage of the maximum allowable quantities of hazardous materials per control area, as defined in CBC Tables 307.1(1) and 307.1(2), on that particular story.

Medical Gas Storage

Medical gas administration and storage areas must comply with the CFC, including CFC 5306.2, and NFPA 99.

CFC Permit Amounts of Medical Gases: The “permit amounts” of the CFC for compressed medical gases are 504 cubic ft for oxidizing gases like Oxygen and Nitrous Oxide and 6,000 cubic ft for inert and simple asphyxiant gases such as Nitrogen and Carbon Dioxide. Medical gas storage or manifold rooms that contain compressed medical gas quantities exceeding these permit amounts are subject to the requirements of CFC 5306.2, which includes requirements for fire-rated room construction and mechanical ventilation of the medical gas room.

CFC MAQ of Oxidizing Gas: The maximum allowable quantity (MAQ) of oxidizing gases in a control area is regulated by the CBC and CFC, and significantly decreases on the upper stories of the building. Refer to the control area section for the percentage of the maximum allowable quantity per control area for each story above and below grade. Note that the MAQs are permitted to be doubled where the medical gases are stored in approved cabinets per CFC Table 5003.1.1(1) Footnote E and CFC 5003.8.6.

NFPA 99 Requirements: The requirements of NFPA 99, *Health Care Facilities Code* are enforced by CMS and are less stringent than the CFC.

1. Storage of medical gases in quantities less than 300 cu. ft. within one smoke compartment does not need to meet special storage requirements (NFPA 99, 11.3.7). Each smoke compartment may have medical gas cylinders up to 300 cu. ft. outside of a protected enclosure.
2. Storage of medical gases in quantities greater than 300 cu. ft. but less than 3,000 cu. ft. shall be located in a protected enclosure that complies with the requirements of NFPA 99, 11.3.6 and provided with adequate continuous ventilation in accordance with NFPA 99, 9.3.6. Cylinders and containers that are in use are not considered in this volume limit.
3. Storage of Medical Gases in quantities greater than 3,000 cu. ft. must comply with NFPA 99, 11.3.5.2 (NFPA 99, 11.3.5). Such requirements include secured locations, minimum 1-hour separation, heated by indirect means, provided with essential electrical power, adequate continuous ventilation, etc.
4. NFPA 99, 11.3.10 states that individual small-size cylinders (A, B, D, or E) available for immediate use in patient care spaces are not considered to be in storage. In other situations, NFPA 99, 11.3.9 clarifies that small size cylinders considered to be in use (A, B, D, or E) must be attached to a cylinder stand or to medical equipment designed to receive and hold compressed gas cylinders.

Laboratories

Laboratories employing quantities of flammable, combustible, or hazardous materials that are considered as a severe hazard are required to be protected in accordance with the CFC and NFPA 99.

Hazardous Exhaust

The hazardous exhaust ducts within the OPP comply with CMC 505.2 and be separated within a common shaft with 2-hour duct fire wrap or located in a dedicated shaft. Fire dampers and smoke dampers shall not be installed on hazardous exhaust systems. The hazardous exhaust shall terminate not less than 30 feet from a property line or from combustible walls or openings into the building that are in the direction of the exhaust discharge,10 feet from openings into the building or feet above adjoining grade, and 6 feet from exterior walls or roofs (CMC 502.2.2).

12. MEANS OF EGRESS

Means of Egress Overview

The means of egress system is required to comply with CBC Chapter 10 and NFPA 101. The exits serving the OPP are summarized below.

- Interior Exit Stair #1 (northwest) serves all occupied levels and discharges directly to the exterior at Level 2.
- Interior Exit Stair #2 (northeast) serves all occupied levels and discharges directly to the exterior at Level 2.
- Interior Exit Stair #3 (southeast) serves all occupied levels and discharges to the interior lobby space on Level 1.
- Interior Exit Stair #4 (southeast) serves Levels 1 – 3 and discharges directly to the exterior at Level 2.
- Exterior exit doors are provided to the south on Level 1 and to the north on Level 2.

Note that the communicating stair located within the two-story vertical opening between the Level 1 and Level 2 lobby spaces is regulated as a convenience stair and not a required means of egress.

Defend in Place Strategy

Areas designated as ACFs, which include care recipients incapable of self-preservation, will employ a “Defend-In-Place” egress strategy to avoid moving those care recipients down flights of stairs during an emergency. Under a Defend-In-Place strategy, healthcare staff relocate care recipients incapable of self-preservation out of the compartment of fire origin and across the smoke barriers into the adjacent smoke compartments. Staff not involved in the relocation of care recipients, visitors, and ambulatory patients primarily utilize the exit stairways for emergency evacuation.

CBC 422.3.1 requires that the fire safety and evacuation plans specified in accordance with CBC 1002.2 identify all the building components necessary to support a defend-in-place emergency response in accordance with CFC 403 and 404. Components supporting a defend-in-place evacuation strategy are described by the Life Safety Code under a “Total Concept” by NFPA 101, Section 20.1.1.3. The Total Concept includes proper construction to create fire/smoke compartmentation throughout the building to limit the spread of fire/smoke out of the zone of origin, coordination of fire protection systems (fire alarm, fire sprinkler, MEP) to prevent the growth and spread of fire/smoke and to allow for the delivery of necessary information to building staff regarding the location of the fire origin, and the establishment of emergency evacuation response procedures to be implemented by staff. The smoke compartmentation and fire protection system designs described in this report are critical to the success of a defend-in-place emergency response strategy.

Security & Egress

Security control doors are located throughout the OPP at the boundaries between public and staff/treatment areas. The means of egress and security approach must be such that occupants are provided with access to their minimum number of required exits by CBC Chapter 10 without passing through locked doors. Required means of egress doors are prohibited from being

normally locked in the direction of egress travel, unless such doors are equipped with delayed egress locking systems.

In the current egress approach, public spaces throughout the OPP have been provided with not less than two compliant means of egress paths to exits which do not require passage through a restricted security doorway or travel through a secured unit.

When delayed egress locking is implemented, the eleven criteria from the CBC 1010.2.13.1 must be addressed. Delayed egress locking systems are not permitted to serve Group A occupancies.

General Means of Egress Requirements

General means of egress requirements from CBC Chapter 10 that apply to the OPP are summarized herein.

CBC Table 1004.5: Occupant Load Factors

Use	Occupant Load Factor (sq.ft./occ.)
Office Spaces, Business Use	150 gross
Laboratories	100 net
Storage Rooms/ Electrical/ Utility/ Mechanical	300 gross
Waiting Areas, Conference Rooms, Lounges, Dining Areas	15 net
Outpatient Areas	100 gross
On-Call Sleeping Rooms	200 gross
Locker Rooms	50 gross

Travel Distance, Common Path of Travel, Dead End Corridors

Occupancy	Corridor Dead End (feet)	Common Path of Travel (feet)	Exit Access Travel Distance (feet)
A	20	75	250
B (outpatient)	50	100	300
B (ACF)	50	100	200*
S	50	100	250

*Group B Ambulatory Care Facilities have a maximum exit access travel distance of 200-ft. per CBC 422.3.4.

Egress Width Factors

Egress Component	Egress Width Factor (inches per occupant)
Stairways	0.3*
Horizontal Egress Elements	0.2*

* An Emergency Voice/Alarm Communication System (EVACS) will be provided, which would permit reduced egress width factors per Exception 1 to CBC Sections 1005.3.1 and 1005.3.2; however, NFPA 101 does not allow reduced egress width factors, even where EVACS is provided. Accordingly, the base egress width factors have been used for the OPP.

Minimum Width of Egress Components

Component	Minimum Width
Doors	44 inches clear width when used for bed movement and stretcher patients in Ambulatory Care Facilities (CBC 1010.1.1). Where two door leaves are provided, at least one door leaf shall be provided with a 44-inch clear width.
	32 inches clear width for doors not serving bed-ridden occupants (CBC 1010.1.1)
Corridors	44 inches for corridors serving any other areas not listed in this table (CBC Table 1020.3).
	36 inches for corridors serving occupant loads of less than 50 (CBC Table 1020.3).
	44 inches for outpatient clinics and outpatient departments consisting only of waiting rooms, business offices, doctor's offices and examining rooms, where there is no traffic through such area to other services or to exits from the building [CBC 1224.4.7.3 & CBC 1226.4.3.1]
	60 inches for outpatient clinics which contain facilities for outpatient use only, such as laboratory, x-ray, physical therapy or occupational therapy [CBC 1224.4.7.3 & CBC 1226.4.3.1]
	72 inches for outpatient departments caring for one or more nonambulatory outpatients [CBC 1224.4.7.3 & CBC 1226.4.3.1]
	72 inches in Ambulatory Care Facilities corridors and areas serving stretcher traffic [CBC Table 1020.3 & CBC 1224.4.7.3].
	96 inches where required for bed/gurney movement [CBC 1224.4.7.1 & CBC 1226.4.3.2]
Stairways	44 inches between handrails in Ambulatory Care Facilities used for movement of bed or stretcher patients [CBC 1011.2].
	44 inches (stringer to stringer clear width) where not used for movement of bed or stretcher patients [CBC 1011.2]

CBC Table 1006.2.1: Spaces with One Exit Access

Occupancy	Max Occupant Load of Space	Max Common Path of Travel (feet)
A	49	75
B	49	100
S	29	100

CBC Table 1006.3.3: Minimum Number of Exits

Occupant Load	Minimum Number of Exits
1-500	2
501-1,000	3
More than 1,000	4

Horizontal Exits

Horizontal exits may be used within the OPP to provide additional exit capacity and/or satisfy exit access travel distances. Level 3 incorporates a horizontal exit to comply with exit access travel distance requirements.

Where horizontal exits are provided, the design of the horizontal exits must comply with CBC 1026 and NFPA 101, 7.2. Horizontal exits must be constructed as 2-hour fire barriers continuous from exterior wall to exterior wall. Refuge area to accommodate occupants utilizing the horizontal exits shall be provided in accordance with CBC 1026.4.

Per NFPA 101, 7.2.4.3.4, where the horizontal exit fire barrier terminates at an exterior wall which forms an angle less than 180 degrees, a 1-hour rating (with 3/4-hour rated opening protectives) must be extended for a minimum 10 ft along the exterior wall on both side of the horizontal exit fire barrier intersection.

NFPA 101, 7.2.4.3.3 requires a 2-hour fire barrier to sub-divide all stories of the building if one or more interior exit stairways discharges to the interior of the building and a horizontal exit is utilized on any single story. Stair 3 currently discharges through the interior of the building such that this requirement would require 2-hour fire barriers on Levels 1 and 2. This condition will need to be further coordinated as the design progresses.

Accessible Means of Egress

Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by CBC 1006.2 or 1006.3 from any accessible space, each accessible portion of the space shall be served by accessible means of egress in at least the same number as required by CBC 1006.2 or CBC 1006.3. Accessible means of egress shall comply with CBC 1009.

The building is limited to four stories in height and will not contain an occupied roof such that an elevator is not required to be designated as an accessible means of egress per CBC 1009.2.1. As a result, the elevators are not required to be provided with standby power.

Interior Exit Stairways

Per CBC 1023.2, interior exit stairways are required to be constructed as 2-hour fire barriers in accordance with CBC 707, where connecting four or more stories. In accordance with CBC 1023.7, where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees, the building exterior walls within 10 feet horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hour. Openings within such exterior walls shall be protected by opening protectives having a fire protection rating of not less than ¾ hours.

Penetrations into and through interior exit stairways are prohibited except for equipment and ductwork necessary for independent ventilation or pressurization, fire protection systems, security systems, two-way communication systems, electrical raceway for fire department communication systems, electrical raceway serving the interior exit stairway and ramp and terminating at a steel box not exceeding 16 square inches, and structural elements supporting

the interior exit stairway or ramp or enclosure, such as beams or joists. These penetrations must be protected in accordance with CBC 714 (CBC 1023.5). Membrane penetrations are permitted on the outside of the interior exit stairway where protected in accordance with CBC 714.4.2 (CBC 1023.5 – Exception).

Openings in interior exit stairways shall comply with CBC 716. Openings in interior exit stairways shall be limited to those required for exit access and exit discharge.

In accordance with CBC 1023.7, where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees, the building exterior walls within 10 feet horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hour. Openings within such exterior walls shall be protected by opening protectives having a fire protection rating of not less than 45 minutes.

Where an interior exit stair or ramp extends above an adjacent roof, the portion of the roof within 10 feet of the stair shall be provided with a minimum 1-hour fire-resistance rating, and any roof openings within this area shall be protected with ¾-hour rated opening protectives (or to the roof perimeter if less than 10 feet). Exceptions include (1) Rating is not required where the roof is adjacent to the stair penthouse (unless otherwise required by code); and (2) Rating of the roof is not required where the stair enclosure wall is 1-hour rated with ¾-hour protected openings extending at least 10 feet above the roof.

In buildings four or more stories above grade plane, one stairway shall extend to the roof surface unless the roof has a slope steeper than four units vertical in 12 units horizontal (33-percent slope) (CBC 1011.12).

Assembly Egress

Assembly Occupancies must comply with CBC Section 1030. Assembly spaces having an occupant load between 100 and 300 shall comply with CBC 1030.3.1 and Assembly spaces having an occupant load over 300 shall comply with CBC 1030.2 & 1030.3. CBC Section 1030.3.1 requires each Group A occupancy exceeding 100 to have at least one exit that discharges on a street or an unoccupied space of not less than 20 feet in capacity that adjoins a street or public way. Where direct access to an exit is not provided for either space, a 1-hour rated corridor, or lobby is required to reach an exit to comply with CBC 1030.3.1.

Exit Discharge

Both Level 1 and Level 2 qualify as “levels of exit discharge” per the CBC Chapter 2 definition.

The exit discharge must provide a direct and unobstructed access to a public way (CBC 1028.5). The minimum width of an egress component shall not be reduced along the path of egress travel until arrival at the public way (CBC 1005.4).

Interior Exit Stairs #1, #2, and #4 discharge directly to the exterior. Interior Exit Stair #3 discharges through the Level 1 lobby area in accordance with CBC 1028.2 – Exception 1.

CBC 1028.2 – Exception 1 permits a maximum of 50% of the number of stairways and 50% of the total required exit capacity provided by the interior exit stairways to discharge through the interior of the building. Interior exit discharge must comply with the following:

- From the discharge door of the stairway, the exterior exit door must be readily visible and identifiable and there must be an unobstructed path of travel to this exterior exit door.
- The entire area of level of discharge must be separated from the floor below by 2-hour fire-rated construction.
- The egress path from the interior exit stairway is provided with an automatic sprinkler system in accordance with NFPA 13.

Egress courts serving as a portion of the exit discharge shall comply with the requirements of CBC 1029. The required capacity of egress courts shall be determined as specified in CBC 1005.1, but the minimum width shall not be less than 44-inches [CBC 1029.2]. Where an egress court is less than 10-ft. in width, the egress court walls shall have a minimum 1-hour fire-rating and ¾ hour opening protectives for a distance of 10-ft. above the floor of the egress court [CBC 1029.3]

13. HVAC ISOLATION / SHUTDOWN APPROACH

The HVAC Isolation / Shutdown approach for the OPP will need to be coordinated with the project team and UCSD as the project progresses. Typical options for HVAC shutdown include:

- Global HVAC Shutdown: Shutdown of all HVAC systems throughout the building upon activation of the fire alarm system.
- HVAC Isolation on the Floor of Alarm: Isolation of HVAC systems on the floor of alarm through closure of fire/smoke dampers at shafts and within the fire floor. HVAC systems serving other floors remain operational.
- HVAC Isolation in the Smoke Compartment of Alarm: Isolation of HVAC systems within the smoke compartment of alarm through closure of fire/smoke dampers at smoke compartment boundaries and within the compartment. HVAC systems remain operational in other smoke compartments, including adjacent compartments on the same floor. This approach requires HVAC zoning to align with smoke compartment boundaries to the greatest extent possible.

Critical care areas such as the Operating Rooms, Procedure Rooms, or Interventional Radiology rooms may be treated differently with respect to the HVAC zoning and shut down strategy. For such rooms, it may be undesirable to shut down the HVAC system serving these critical care rooms (unless the fire originates within the room itself) due to the types of procedures being performed in these rooms and the specific HVAC system performance criteria that must normally be met in these spaces. Coffman understands that the HVAC system serving such critical care areas is typically separate from the system serving other adjoining spaces. This will allow the HVAC system serving these rooms to only be shut down upon detection of a fire within these critical care rooms. In similar critical care areas, shutdown of the HVAC system and closing of fire/smoke dampers in the boundary of these rooms may be based on activation of smoke detector(s) within the specific room of fire origin.

The detailed design and implementation of the preferred approach for the fire alarm system and HVAC system shall be the responsibility of the fire alarm Designer of Record and the Mechanical Engineer of Record (MEOR).

14. AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS

A new automatic sprinkler system and manual wet Class I standpipe system shall be provided throughout the building in accordance with the CBC, NFPA 13, and NFPA 14. Refer to the Fire Protection Basis of Design for additional information.

15. FIRE ALARM SYSTEM

A new fully addressable fire alarm system and emergency voice/alarm communication system (EVACS) shall be provided throughout the building in accordance with the CBC and NFPA 72 requirements. Refer to the Fire Alarm Basis of Design for additional information.

16. EMERGENCY RESPONDER RADIO COVERAGE SYSTEM

CFC Section 510.1 requires new buildings to provide an approved in-building, two-way emergency responder communication coverage for emergency responders.

17. CONCLUSION

This fire protection report is intended to summarize key fire protection/life safety features and the overall fire protection/life safety code compliance approach for the UCSD La Jolla Outpatient Pavilion at the 100% Schematic Design phase. This report is not meant to provide an exhaustive list of all applicable code requirements for this project.

If the project team has questions regarding the content of this document, please contact our office at 818.698.8448.

Sincerely,
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