



 ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

## **REPORT OF SITE ASSESSMENT ACTIVITIES**

**RINCON ISLAND, LEASE 1466  
6687 BREAKERS WAY  
VENTURA COUNTY, CALIFORNIA**

Prepared for:  
CALIFORNIA STATE LANDS COMMISSION

December 2021

# padre

associates, inc.

ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

December 18, 2021  
Project No. 2001-7861

California State Lands Commission  
100 Howe Avenue, Suite 100 South  
Sacramento, California 95825-8202

Attention: Ms. Cynthia Herzog  
Senior Environmental Scientist

Subject: Report of Site Assessment Activities, Rincon Island, Lease 1466, 6687 Breakers Way, Ventura County, California

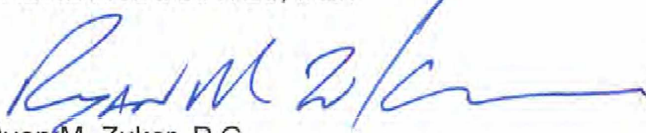
Dear Ms. Herzog:

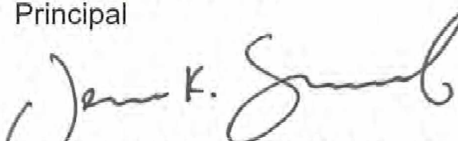
Padre Associates, Inc. (Padre), on behalf of the California State Lands Commission (CSLC), has prepared this Report of Site Assessment Activities as part of facility decommissioning planning activities at Rincon Island, Lease 1466, 6687 Breakers Way, Ventura County, California 93001. This report has been prepared to document the soil, interstitial water, and ocean water assessment activities completed at the Project Site on March 3 and 5, 2021, May 4, 5, 11, and 13, 2021, and October 4, 2021.

Padre appreciates the opportunity to assist CSLC with this project. If you have any questions or comments, please contact Mr. Ryan Zukor at (805) 644-2220 or [rzukor@padreinc.com](mailto:rzukor@padreinc.com).



Sincerely,  
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## 1.0 INTRODUCTION

Padre Associates, Inc. (Padre), on behalf of the California State Lands Commission (CSLC), has prepared this Report of Site Assessment Activities as part of facility decommissioning planning activities at Rincon Island Lease 1466, 6687 Breakers Way, Ventura County, California 93001. Refer to Plate 1 - Site Location Map and Plate 2 - Site Plan.

The objective of the site assessment activities was to determine the potential presence of constituents of concern located within the island soil core and interstitial water at the Rincon Island structure resulting from historical petroleum hydrocarbon production and processing activities conducted at the Project Site. Additionally, the site assessment activities included the collection of ocean water samples for chemical analyses from within the revetment wall rip-rap material immediately adjacent to the island perimeter. The results of the soil and interstitial water assessment activities have been used to identify areas of potential concern in the area of the former crude oil and gas production, storage, and processing facilities, as well as to provide an understanding of the nature and extent of the island core materials with respect to the perimeter rock revetments.

Padre completed initial limited soil assessment activities at the Project Site in support of Driltek Inc. (Driltek) and the facility decommissioning activities on March 3 and 5, 2021. In accordance with the Padre document titled *Technical Work Plan (TWP), Site Assessment Activities, Rincon Island, Rincon Island Decommissioning Project, Ventura County, California*, dated April 23, 2021 (Padre, 2021a), as well as the Padre Technical Memorandum document titled *Technical Work Plan Addendum, Supplemental Soil and Ocean Water Assessment Activities, Rincon Phase 2 Decommissioning Project - Rincon Island, Ventura County, California*, dated September 28, 2021 (Padre, 2021c). Padre completed the subject soil, interstitial water, and ocean water assessment activities at the Project Site on March 3 and 5, 2021, May 4, 5, 11, and 13, 2021, and October 4, 2021. The results of the site assessment activities are summarized herein.

### 1.1 OVERVIEW

The scope of services for the Project Site included the following:

- Preparation of a Technical Work Plan / Site Health and Safety Plan to describe the scope of work.
- Advancement of eighteen Geoprobe® direct-push drill holes to facilitate the collection of discrete soil samples for chemical analyses.
- Construction of three interstitial water monitoring wells using hollow-stem auger drilling methods.
- Collection of three ocean water samples for chemical analyses.

- Chemical analyses of collected soil samples for the following chemicals of potential concern:
  - Total Petroleum Hydrocarbons (TPH) identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. Environmental Protection Agency (EPA) method 8015M.
  - Volatile organic compounds (VOCs), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) by U.S. EPA method 8260B.
  - Polynuclear Aromatic Hydrocarbons (PAHs) by U.S. EPA method 8270C-Simulated Ion Monitoring (SIM).
  - Title 22/CAM17 metals by U.S. EPA method series 6000/7000.
  - Hazardous Waste Characteristics
    - Reactivity (reactive cyanide/reactive sulfide) by U.S. EPA method SW846.7.3
    - Corrosivity (pH) by U.S. EPA method 9045
    - Ignitability (flashpoint) by U.S. EPA method 1010M
    - Toxicity (fish bioassay) by Polisini & Miller (CDFG, 1988)
- Chemical analyses of interstitial water samples for the following chemicals of potential concern:
  - TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. EPA method 8015M.
  - VOCs and TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) by U.S. EPA method 8260B.
  - Total Dissolved Solids (TDS) by SM2540.
- Chemical analyses of ocean water samples for the following chemicals of potential concern:
  - TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. EPA method 8015M.
  - TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) and VOCs by U.S. EPA method 8260B.
  - Semi-Volatile Organic Compounds (SVOCs) by U.S. EPA method 8270C.
  - Title 22/CAM17 metals by U.S. EPA method series 6000/7000.
- Preparation of this report presenting the results of the site assessment activities completed at the Project Site.

The field activities were conducted in general accordance with U.S. EPA Resource Conservation and Recovery Act (RCRA) Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846).

## 1.2 REGULATORY SCREENING LEVELS

Padre compared the laboratory analytical results for soil samples collected at the Project Site to the California Regional Water Quality Control Board - Los Angeles Region (RWQCB-LAR) document titled *Interim Site Assessment and Cleanup Guidebook*, dated May 1996, which includes reference to State Water Resources Control Board Resolution No. 88-63 - Adoption of Policy Entitled "Sources of Drinking Water". Resolution 88-63 states that all surface and groundwaters of the state are considered to be suitable, or potentially suitable, for municipal or domestic water supply and should be designated by the RWQCB-LAR with the exception of surface and groundwaters where the TDS exceeds 3,000 milligrams per liter (mg/l). Based on the laboratory analytical results for three groundwater samples, TDS concentrations at the Project Site range from 9,300 milligrams per liter (mg/l) to 21,000 mg/l; therefore, TPH concentrations in soil for "greater than 150 feet above groundwater" have been used as Maximum Soil Screening Levels to be protective of human health and the environment at the Project Site.

Padre also compared the laboratory analytical results for soil and interstitial water samples to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs), dated 2019 (Revision 2). Specifically, constituents of concern in soil were compared to the Summary of Soil ESLs (mg/kg), Leaching to Groundwater Levels (Table S-3), Non-Drinking Water, and metals concentrations were compared to the Soil Tier 1 ESLs. Groundwater results were compared to Summary of Groundwater ESLs ( $\mu\text{g/l}$ ) Aquatic Habitat Goal Levels (Table GS-2) Saltwater Ecotox. The laboratory analytical results for metals and hazardous waste characteristics were also compared to California Code of Regulations (CCR) Title 22 Section 66261 values for characterizing hazardous waste. Arsenic concentrations were compared to the upper-bound naturally occurring arsenic screening level concentration of 12 milligrams per kilogram (mg/kg) referenced in the document titled *Determination of a Southern California Regional Background Arsenic Concentration in Soil*, prepared by the California Department of Toxic Substances Control (DTSC), not dated.

The laboratory analytical results for interstitial water and ocean water samples were also compared to the Water Quality Objectives (WQO) listed in the State Water Resources Control Board, California Environmental Protection Agency, California Ocean Plan, Water Quality Control Plan, Ocean Waters of California, established in 1972 and revised in 2019 (SWRCB, 2019).

## 1.2 REPORT ORGANIZATION

This report is organized as follows: Section 1.0 provides the introduction; Section 2.0 presents background information for the Project Site, including a discussion of the Project Site location, island construction, geology, and hydrogeology; Section 3.0 provides the soil and interstitial water assessment methodology; and Section 4.0 presents the findings of the site assessment activities and includes a discussion of the laboratory analytical results. Section 5.0 provides the conclusions.

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## 2.0 BACKGROUND

### 2.1 SITE DESCRIPTION

The Project Site is Rincon Island, which is an approximate 2.1-acre manmade island located off the coast of Ventura County constructed in 1958 for oil and gas production and processing activities. The island is located approximately one-half mile offshore from the coastal community of Mussel Shoals, and is accessed by a causeway constructed with driven steel piles, steel caps and stringers, and timber decking.

According to the topographic survey information provided by WM Meagher Survey (WMS) of Ventura, California the elevation at the Project Site ranges from approximately 14.34 feet to 15.68 feet above mean sea level (MSL).

According to the California Department of Conservation, Geologic Energy Management Division, the Project Site is located within State Lease No. 1466 (CalGEM, 2021).

### 2.2 ISLAND CONSTRUCTION

The island is constructed of rock revetments, which contain the artificial fill material to create the island. The island core is composed of fine to coarse-grained sand that was imported from the bluff behind Punta Gorda, located north of the Project Site (ASCE, 1959). The earth materials within the bluff are composed of marine deposited, Pliocene and Pleistocene-age Pico Formation, which consists of mostly light gray to tan sandstone, in some places pebbly, and includes some interbedded claystone (Dibblee, 1988)

The island core is surrounded with a rock revetment constructed with locally sourced armor rock composed of Cold Water Sandstone mined from the Stanley Park Ranch located northeast of the island and 1,130 manmade concrete tetrapods. The working surface of the island is approximately 1.2-acres, which is paved with concrete and asphalt. The elevation of the working surface was designed to be approximately 16-feet above mean lower low water (MLLW) of the Pacific Ocean. The working area of the island is constructed with an 88 slot well bay, aboveground storage tanks, sumps, pumps, gas scrubbers, a gas compressor, flare, pipeline systems, electrical supports, and various office and support building space. As part of the recently completed facility abandonment activities, the oil production and injection wells have been permanently abandoned, and the oil, gas, and water processing and storage facilities have been removed.

### 2.3 GEOLOGY

The Project Site is located offshore within the Transverse Ranges geomorphic province of California. The Transverse Ranges are an east-west trending series of steep mountain ranges and valleys. The east-west structure of the Transverse Ranges is oblique to the normal northwest trend of coastal California, hence the name "Transverse". The province extends offshore to include the northern Channel Islands. At the eastern extension, the San Bernardino Mountains,

has been displaced to the south along the San Andreas Fault. Intense north-south compression is squeezing the Transverse Ranges. As a result, this is one of the most rapidly rising regions on earth. Great thicknesses of Cenozoic petroleum-rich sedimentary rocks have been folded and faulted, making this one of the most important oil-producing areas in the United States (CGS, 2002)

Regional geology onshore in the area of the Project Site is the result of a complex history of structural movement and compression along the San Andreas Fault, including uplift of Rincon Mountain. The Project Site is underlain by upper Pliocene marine sedimentary rocks referred to in the Ventura Basin as the Pico Formation, which is composed of mostly light gray to tan well bedded sandstone with some interbedded gray claystone. The Project Site is further underlain by middle Miocene marine sedimentary rocks referred to as the Sisquoc Shale and the Monterey Formation, which are composed of gray to white siliceous shale (CGS, 1969). The axial plane of the east-west trending Rincon Anticline is estimated to traverse approximately 400 feet north of the area of the Project Site (Dibblee, 1988).

### **3.0 ASSESSMENT METHODOLOGY**

The scope of services described herein was developed to support CSLC with the feasibility study and environmental documentation for Rincon Island.

The soil and interstitial water assessment activities completed at the Project Site were conducted using both Geoprobe® direct-push and hollow-stem auger drilling methods. Discrete depth soil and interstitial water samples were collected from locations throughout the facility to document soil and interstitial water conditions and to identify areas of potential concern.

#### **3.1 PRE-FIELD ACTIVITIES**

##### **3.1.1 Technical Work Plan**

The scope of site assessment activities was performed in accordance with the Padre document titled *Technical Work Plan (TWP), Site Assessment Activities, Rincon Island, Rincon Island Decommissioning Project, Ventura County, California*, dated April 23, 2021 (Padre, 2021a), as well as the Padre Technical Memorandum document titled *Technical Work Plan Addendum, Supplemental Soil and Ocean Water Assessment Activities, Rincon Phase 2 Decommissioning Project - Rincon Island, Ventura County, California*, dated September 28, 2021. The TWP and addendum documents describe the drilling activities, soil, interstitial water, and ocean water sample collection activities, the laboratory analytical program for soil and water samples, and provisions for preparation of a report.

##### **3.1.2 Health and Safety**

The site assessment activities were performed in accordance with the Padre document titled *Health and Safety Plan, Site Assessment Activities, Rincon Island, Rincon Island Decommissioning Project, Ventura County, California*, dated April 2021 (Padre, 2021b).

### **3.1.3 Permits**

The soil assessment activities were conducted in accordance with the Annual Well Permit issued to Padre by the County of Ventura, which expires on May 31, 2022. The three interstitial water monitoring wells were constructed at the Project Site in accordance with County of Ventura Well Permit Number GWP-08541, dated May 3, 2021. A copy of the well construction permit and sealing record are attached as Appendix A - Project Documentation.

### **3.1.4 Underground Service Alert and Utility Locating**

Padre conducted the site assessment activities in accordance with Underground Service Alert - Dig Alert ticket numbers A211180785-00A and A212721015-00A. Copies of the Dig Alert tickets are attached as Appendix A - Project Documentation.

## **3.2 SOIL ASSESSMENT ACTIVITIES**

Padre was escorted by representatives of Driltek to the Project Site on March 3 and 5, 2021 to document the subsurface materials encountered beneath the concrete slab within a portion of the well bay area located at the southwest corner of the Project Site. Padre observed the excavation test-pit area to extend approximately 10-feet north to south and 4-feet east to west along the rear cellular concrete wall of the well bay area. The excavated test-pit extended to an approximate depth of approximately 4-feet below the concrete floor of the well bay. The excavation area also extended towards the south along a narrow section of the well bay floor between the concrete cellar and the rear cellular concrete wall. Padre collected four soil samples from the well bay area test pit excavation for chemical analyses. Refer to Plate 2 - Site Plan.

On May 4 and 5, 2021 Padre utilized the hollow-stem auger drilling services of S/G Drilling Company (S/G) of Lompoc, California. S/G maintains Contractors State License Board C-57 license number 611394, which is valid through January 31, 2023. S/G advanced a total of three hollow-stem auger drill holes to facilitate the collection of discrete soil samples for chemical analyses and construct three temporary interstitial water monitoring wells (MW-1, MW-2, and MW-3) at the Project Site. Discrete depth soil samples were collected from each drill hole location at approximate 5-foot depth intervals from the surface to the total depth of each drill hole, which were submitted for chemical analyses. The locations of the temporary interstitial water monitoring wells constructed at the Project Site are presented on Plate 2 - Site Plan.

On May 11, 2013 and October 4, 2021, Padre utilized the Geoprobe® drilling services of Strongarm Environmental Field Services (Strongarm) of Fullerton, California. Strongarm maintains Contractors State License Board C-57 license number 766463, which is valid through July 31, 2023. Strongarm advanced a total of eighteen direct-push Geoprobe® drill-holes at the Project Site to maximum depths of approximately 22-feet bgs, except for four drill hole locations advanced in the areas of the former cellular wall, former tank battery area, and the area east of the office building where mechanical refusal was encountered at approximate depths ranging from 8-feet to 13.5-feet bgs. Discrete depth soil samples were collected from each drill hole at approximate 4-foot depth intervals from the surface to the total depth of each drill hole, which were submitted for chemical analyses.

Soil samples were collected from the hollow-stem auger drill holes in stainless steel sleeves that were sealed with Teflon™ sheets and plastic end caps. Soil samples were collected from the Geoprobe® drill holes in acetate sleeves that were sealed with Teflon™ sheets and plastic end caps. Each soil sample was logged, labeled, and placed in a cooler with ice pending deliver to the analytical laboratory. Padre screened each soil sample for the presence of VOCs using a hand-held field portable photoionization detector (PID) and logged the earth materials encountered in accordance with the Unified Soil Classification System (USCS). The earth materials and conditions encountered at each drill hole location were documented by Padre on drill hole logs, which are provided as Appendix B - Drill Hole Logs.

Soils retained for chemical analyses were selected based on the field conditions encountered at each location to document presence/absence of petroleum hydrocarbons and visual and/or PID screening evidence of potential hydrocarbon-containing soils. Based on the conditions encountered and the potential presence of petroleum hydrocarbons at each drill hole location, additional soil samples were submitted for chemical analysis, if necessary, to document the site conditions and define the approximate vertical and lateral extent of petroleum hydrocarbon-containing soil at the Project Site.

The Geoprobe® drill holes were backfilled with hydrated bentonite chips to within 12-inches of the surface. The surfaces at each drill hole location were sealed with concrete to match surface grade.

### **3.3 INTERSTITIAL WATER MONITORING WELL CONSTRUCTION ACTIVITIES**

On May 4 and 5, 2021 Padre utilized the hollow-stem auger drilling services of S/G to advance three hollow-stem auger drill holes and construct three temporary interstitial water monitoring wells (MW-1, MW-2, and MW-3) at the Project Site. The interstitial water monitoring wells were constructed to total depths of approximately 23-feet bgs with 2-inch diameter, flush threaded polyvinyl chloride (PVC) well casing. Each well was constructed with 15-feet of 0.020-inch slot screen casing pre-packed with No. 3 sand, and approximately 8-feet of blank casing sealed with hydrated bentonite chips. Each well was completed at the surface with a traffic-rated well box set in concrete. The well construction logs for the three interstitial water monitoring wells are included with Appendix B - Drill Hole Logs.

### **3.4 SURVEYING**

On May 12, 2021 Padre utilized the professional land surveying services of WMS to survey the as-built Geoprobe® and hollow-stem auger drill hole locations at the Project Site. WMS maintains State of California Land Surveyor License No. 5948, valid through December 31, 2022. WMS surveyed the location and ground surface elevation at each drill hole location, as well as the elevation of each interstitial water monitoring well casing and rim of each traffic rated well box. Additionally, on October 4, 2021, Padre surveyed drill holes GP-12 through GP-18 using a handheld Trimble Geo7X Global Positioning System with sub-meter accuracy. The survey data are presented on Table 1 - Summary of Survey Data.



### **3.5 INTERSTITIAL WATER MONITORING ACTIVITIES**

Padre completed interstitial water monitoring activities on May 13, 2021 at the locations of the three temporary interstitial water monitoring wells (MW-1, MW-2, and MW-3) constructed at the Project Site in accordance with the *Standard Operating Procedure for the Standard/Well Volume Method for Collecting a Ground-Water Sample from Monitoring Wells for Site Characterization*, issued by the U.S. EPA.

Padre gauged the depth to water and total depth of each well location using an electronic water level indicator. The measured water column thickness at each well location was used to calculate the three well casing volumes to be removed from each well casing. Padre surged each well with a 1.5-inch diameter hand bailer to remove fine-grained sediment from the bottom of the well casing. Padre utilized a downhole electric submersible pump to purge each well of three well casing volumes of groundwater. A YSI 556 MPS and a flow-through cell was used to measure temperature (degrees Celsius [°C]), pH, specific conductivity (milli-Siemens/centimeter [mS/cm]), dissolved oxygen (milligrams per liter [mg/l]), oxidation reduction potential (millivolts [mV]). Turbidity was measured using a LaMotte 2020we turbidity meter, measured in Nephelometric Turbidity Units (NTU).

Interstitial water samples were collected for chemical analyses using new Teflon™ disposal bailers at each well location, which were decanted into laboratory supplied containers that were logged, labeled, and placed in a cooler with ice pending delivery to the analytical laboratory. The depth to interstitial water measured at groundwater monitoring wells MW-1, MW-2, and MW-3 ranged from 11.96-feet to 14.61-feet below the top of well casings.

The interstitial water monitoring logs prepared by Padre during the interstitial water monitoring activities are presented as Appendix A - Project Documentation.

### **3.6 OCEAN WATER ASSESSMENT ACTIVITIES**

Padre collected three samples of the ocean water (RI-OW-100421-1, RI-OW-100421-2, and RI-OW-100421-3) on October 4, 2021. The ocean water samples were collected from within the revetment wall rip-rap material immediately adjacent to the island perimeter. The ocean water samples were collected from each location using a new Teflon™ disposal bailer suspended with nylon twine from a handheld extension pole. The bailer was lowered through the rip-rap to collect the ocean water sample, the bailer was then decanted into the laboratory-supplied containers. The containers were logged, labeled, and placed in a cooler with ice pending delivery to the analytical laboratory. The approximate locations of the ocean water samples are shown on Plate 2 - Site Plan. Documentation of the ocean water assessment activities is presented as Appendix A - Project Documentation.

### **3.7 DECONTAMINATION PROCEDURES**

Reusable field sampling equipment was cleaned before use, between sample locations, and following the completion of fieldwork. Cleaning procedures consisted of a non-phosphate detergent wash, tap water rinse, and a final de-ionized water rinse.

### 3.8 ASSESSMENT DERIVED WASTES

Assessment-derived wastes included decontamination wash water, purged interstitial water, soil cuttings, used personal protective equipment (i.e., nitrile gloves), and general refuse. Decontamination wash water, soil cuttings, and purged interstitial water were placed into the existing waste streams at the Project Site managed by Driltek. The used personal protective equipment and general refuse were properly disposed of by Padre offsite.

### 3.9 LABORATORY ANALYTICAL PROGRAM

During the course of site assessment activities conducted at the Project Site from March 3, 2021 through October 4, 2021, a total of 60 soil samples, five interstitial water samples, and three ocean water samples were submitted for chemical analyses. The soil, interstitial water, and ocean water samples were submitted under chain-of-custody documentation to Oilfield Environmental Compliance, Inc. (OEC) located in Santa Maria, California. OEC maintains a Certificate of Environmental Accreditation from the California State Environmental Laboratory Accreditation Program (ELAP), No. 2438, valid through October 31, 2022.

The laboratory analytical reports for the soil, interstitial water, and ocean water assessment activities are provided as Appendix C - Laboratory Analytical Reports.

The soil samples were chemically analyzed by the following analyses.

- A total of 60 soil samples were chemically analyzed for the presence of TPH, identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. EPA method 8015 modified.
- A total of 57 soil samples were chemically analyzed for the presence of TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) by U.S. EPA method 8260B.
- A total of 54 soil samples were chemically analyzed for the presence of BTEX by U.S. EPA method 8260B.
- A total of 11 soil samples were chemically analyzed for the presence of VOCs by U.S. EPA method 8260B.
- A total of six soil samples were chemically analyzed for the presence of SVOCs by U.S. EPA method 8270C.
- A total of 16 soil samples were chemically analyzed for the presence of PAHs by U.S. EPA method 8270C-Selected Ion Monitoring (SIM).
- A total of 17 soil samples were chemically analyzed for Title 22/CAM 17 metals by U.S. EPA method series 6000/7000.
- One soil sample was chemically analyzed for the presence of PCBs by U.S. EPA method 8080.
- One soil sample was chemically analyzed for Hazardous Waste Characteristics:

- Reactivity (reactive cyanide/reactive sulfide) by U.S. EPA method SW846.7.3
- Corrosivity (pH) by U.S. EPA method 9045
- Ignitability (flashpoint) by U.S. EPA method 1010M
- Toxicity (fish bioassay) by Polisini & Miller (CDFG, 1988)

The interstitial water samples were chemically analyzed by the following analyses:

- A total of four interstitial water samples were chemically analyzed for the presence of TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. EPA method 8015 modified.
- A total of four interstitial water samples and one trip blank sample were chemically analyzed for the presence of VOCs and TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) by U.S. EPA method 8260B.
- A total of three interstitial water samples were chemically analyzed for TDS by SM2540C.

The three ocean water samples were chemically analyzed by the following analyses:

- TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) and motor oil (C<sub>23</sub>-C<sub>40</sub>) by U.S. EPA method 8015M.
- TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) and VOCs by U.S. EPA method 8260B.
- Semi-Volatile Organic Compounds (SVOCs) by U.S. EPA method 8270C.
- Title 22/CAM17 metals by U.S. EPA method series 6000/7000.

### **3.10 QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES**

The quality assurance / quality control (QA/QC) procedures were utilized in both sample collection and chemical analyses. The purpose of the QA/QC procedures were to ensure the reliability and compatibility of all data generated during the subject soil assessment program.

#### **3.10.1 Field QA/QC Procedures**

Field QA/QC procedures were performed during the sampling program and consist of the following measures:

- Chain-of-Custody (COC) forms were used for sample submittal to the laboratory; and
- Daily information regarding sample collection were recorded on field data sheets. Sample types, sample identification numbers, and sample times were collected and recorded on field data sheets.

COC records were utilized to document sample collection and submittal to the laboratory for analysis. A COC record accompanied all samples submitted for chemical analyses.

### **3.10.2 Laboratory QA/QC Procedures**

Laboratory QA/QC procedures include the following:

- Chemical analyses were performed within the required holding time for all samples.
- A California ELAP hazardous waste testing laboratory conducted the required analysis.
- The laboratory provided the following information for each sample:
  - Method blank data
  - Surrogate recovery, instrument tuning, and calibration data
  - Signed laboratory reports including the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum Reporting Limit.
- A blind duplicate interstitial water sample was collected from interstitial water monitoring well MW-1. The laboratory analytical results for the blind duplicate sample are within 10 percent of the original sample laboratory analytical result.

## **4.0 FINDINGS**

The findings for the soil and interstitial water assessment activities completed at the Project Site are presented below.

### **4.1 EARTH MATERIALS**

Earth materials encountered during the course of the soil assessment activities completed at the Project Site included artificial fill materials composed of Pico Formation sediments sourced from the bluff behind Punta Gorda, located north of the Project Site. A total of three drill holes (GP-16, GP-17, and GP-18) located at the southeast corner of the island encountered refusal upon contact with the Cold Water Sandstone blocks used to construct the perimeter rip-rap revetment wall. The artificial fill materials were observed to consist of light olive brown (2.5Y 5/3) to grayish brown (10YR 5/2) well graded sand, fine to coarse grained with varying amounts of silt, pebbles, sub-round to angular gravel, and minor amounts of shell fragments. Weathered petroleum hydrocarbon-containing soils were observed at several drill hole locations to be dark gray (5Y 4/1) to dark greenish gray (GLEY 2 5BG 4/1) to dark bluish gray (GLEY 2 5PB 4/1) with slight to strong petroleum hydrocarbon odor. Concentrations of VOCs measured with the hand-held field portable PID ranged from 0.7 parts per million by volume (PPMV) to 1,600 PPMV. The drill hole logs for the drill holes completed at the Project Site are presented as Appendix B - Drill Hole Logs.

## 4.2 INTERSTITIAL WATER

The designed elevation of the working surface of the island is approximately 16-feet above MLLW of the Pacific Ocean, which is approximately 15-feet above MSL. The depth to interstitial water measured at the locations of temporary monitoring wells MW-1, MW-2, and MW-3 ranged from approximately 11.96-feet to 14.61-feet below the top of well casings, which correspond to elevations that range from approximately 0.47-feet to 3.18-feet MSL. The elevation data for interstitial water is presented on Table 1 - Summary of Survey Data.

## 4.3 LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES

### 4.3.1 Total Petroleum Hydrocarbons

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 2 - Laboratory Analytical Results for Soil Samples - Total Petroleum Hydrocarbons. The distribution of petroleum hydrocarbons in soil is presented on Plate 3 - Distribution of Total TPH in Soil.

The laboratory analytical results for 57 soil samples collected at approximate depths ranging from 2-feet to 16-feet bgs indicated TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) at concentrations ranging from 0.57 mg/kg to 3,200 mg/kg. The maximum soil screening level and ESL for TPH (C<sub>4</sub>-C<sub>12</sub>) are 1,000 mg/kg and 4,900 mg/kg, respectively. One soil sample, GP-15-8 collected at an approximate depth of 8-feet bgs, contained TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) concentrations in excess of the maximum soil screening level value of 1,000 mg/kg.

The laboratory analytical results for 60 soil samples collected at approximate depths ranging from 2-feet to 16-feet bgs indicated TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) at concentrations ranging from 10 mg/kg to 6,800 mg/kg. The maximum soil screening level and ESL for TPH (C<sub>13</sub>-C<sub>22</sub>) are 10,000 mg/kg and 7,300 mg/kg, respectively.

The laboratory analytical results for 60 soil samples collected at approximate depths ranging from 2-feet to 16-feet bgs indicated TPH identified as motor oil (C<sub>23</sub>-C<sub>40</sub>) at concentrations ranging from 92 mg/kg to 11,000 mg/kg. The maximum soil screening level for TPH (C<sub>23</sub>-C<sub>40</sub>) is 50,000 mg/kg. An ESL for TPH (C<sub>23</sub>-C<sub>40</sub>) has not been established.

The laboratory analytical results for 31 soil samples indicated total TPH (C<sub>4</sub>-C<sub>40</sub>) concentrations ranging from 1.9 mg/kg to 15,570 mg/kg. A maximum soil screening level and ESL have not been established for total TPH (C<sub>4</sub>-C<sub>40</sub>). The highest reported total TPH (C<sub>4</sub>-C<sub>40</sub>) concentration (15,570 mg/kg) was reported for soil sample WB-030321-2, which was collected from the test-pit excavation at an approximate depth of 2-feet bgs within the southern portion of the well bay area.

#### **4.3.2 Volatile Organic Compounds**

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 3 - Laboratory Analytical Results for Soil Samples - Volatile Organic Compounds.

The laboratory analytical results for 54 soil samples did not indicate benzene or toluene concentrations in excess of the analytical method reporting limits. The laboratory analytical results indicated one soil sample, WB-030321-2 collected from the southern portion of the well bay area at an approximate depth of 2-feet, was reported to contain ethylbenzene and total xylenes concentrations of 0.31 mg/kg and 1.20 mg/kg, respectively. The maximum soil screening levels for ethylbenzene and total xylenes are 17 mg/kg and 48 mg/kg, respectively. The ESLs for ethylbenzene and total xylenes are 0.43 mg/kg and 10.40 mg/kg, respectively.

The laboratory analytical results for 11 soil samples indicated low concentrations of VOCs constituents in excess of the analytical method reporting limits. The laboratory analytical results indicated one soil sample, WB-030321-2 collected from the southern portion of the well bay area at an approximate depth of 2-feet, was reported to contain a naphthalene concentration of 1.5 mg/kg that slightly exceeded the applicable ESL value of 1.15 mg/kg. According to the Agency for Toxic Substances and Disease Registry (ATSDR, August 2005), naphthalene is a white solid that evaporates easily, smells like moth balls, and occurs naturally in petroleum. Naphthalene has a short half-life in most natural waters and soils because of its tendency to volatilize and biodegrade, and therefore, there is little tendency for naphthalene to build up in the environment over time.

#### **4.3.3 Semi-Volatile Organic Compounds / Polynuclear Aromatic Hydrocarbons**

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 4 - Laboratory Analytical Results for Soil Samples - Semi-Volatile Organic Compounds / Polynuclear Aromatic Hydrocarbons.

The laboratory analytical results for six soil sample did not indicate SVOCs constituent concentrations in excess of the analytical method reporting limits.

The laboratory analytical results for 16 soil samples indicated five soil samples contained low concentrations of PAHs constituents. The reported PAHs constituent concentrations did not exceed the respective ESLs.

#### **4.3.4 Title 22 / CAM17 Metals**

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 5 - Laboratory Analytical Results for Soil Samples - Title 22/CAM 17 Metals.

The laboratory analytical results for 17 soil samples did not indicate Title 22/CAM17 metals concentrations in excess of CCR Title 22 values for hazardous waste characterization. Additionally, the reported metals concentrations, except for arsenic, did not exceed the Tier 1

ESLs. The reported arsenic concentrations did not exceed the upper-bound naturally occurring arsenic screening level concentration of 12 mg/kg defined by the California Department of Toxic Substances Control (DTSC) *Determination of a Southern California Regional Background Arsenic Concentration in Soil* (not dated).

#### **4.3.5 Polychlorinated Biphenyls**

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 6 - Laboratory Analytical Results for Soil Samples - Polychlorinated Biphenyls.

The laboratory analytical results for one soil sample did not indicate PCBs concentrations in excess of the analytical method reporting limits.

#### **4.3.6 Hazardous Waste Characteristics**

The laboratory analytical results for soil samples collected at the Project Site are presented on Table 7 - Laboratory Analytical Results for Soil Samples - Hazardous Waste Characteristics.

The laboratory analytical results for one soil sample indicated the sample did not contain hazardous waste characteristics of corrosivity, reactivity, ignitability, or toxicity.

### **4.4 LABORATORY ANALYTICAL RESULTS FOR INTERSTITIAL WATER SAMPLES**

#### **4.4.1 Total Dissolved Solids**

The laboratory analytical results for interstitial water samples are provided on Table 10 - Laboratory Analytical Results for Interstitial Water Samples - Total Dissolved Solids.

The laboratory analytical results for three interstitial water samples indicated TDS concentrations ranging from 9,300 milligrams per liter (mg/l) to 21,000 mg/l. The TDS concentrations of the interstitial water samples collected from the Project Site exceeded 3,000 mg/l, which is considered by the State Water Resources Control Board Resolution No. 88-63 Adoption of Policy Entitled "Sources of Drinking Water" to be the TDS limit for water to be suitable for municipal or domestic water supply.

#### **4.4.2 Total Petroleum Hydrocarbons**

The laboratory analytical results for interstitial water samples collected at the Project Site are provided on Table 8 - Laboratory Analytical Results for Interstitial Water Samples - Total Dissolved Solids and Table 9 - Laboratory Analytical Results for Water Samples - Total Petroleum Hydrocarbons. The distribution of petroleum hydrocarbons in interstitial water is presented on Plate 4 - Distribution of Total TPH in Interstitial Water. The laboratory analytical results for four interstitial water samples and one trip blank sample did not indicate concentrations of TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) in excess of the analytical method reporting limits.

The laboratory analytical results for four interstitial water samples indicated concentrations of TPH identified as diesel fuel (C<sub>13</sub>-C<sub>22</sub>) ranging from 240 micrograms per liter (µg/l) to 430 µg/l. The ESL for TPH (C<sub>13</sub>-C<sub>22</sub>) is 640 µg/l. A WQO value has not been established for TPH (C<sub>13</sub>-C<sub>22</sub>).

The laboratory analytical results for four interstitial water samples indicated concentrations of TPH identified as motor oil (C<sub>23</sub>-C<sub>40</sub>) ranging from 220 µg/l to 380 µg/l. ESL and WQO values for TPH (C<sub>23</sub>-C<sub>40</sub>) have not been established.

#### **4.4.3 Benzene, Toluene, Ethylbenzene, and Total Xylenes**

The laboratory analytical results for interstitial water samples collected at the Project Site are provided on Table 10 - Laboratory Analytical Results for Water Samples - VOCs.

The laboratory analytical results for four interstitial water samples, including one trip blank sample, did not indicate the presence of benzene, toluene, ethylbenzene, and total xylenes concentrations in excess of the analytical method PQLs. The analytical method PQLs for BTEX did not exceed the ESLs or WQO values.

### **4.5 LABORATORY ANALYTICAL RESULTS FOR OCEAN WATER SAMPLES**

#### **4.5.1 Total Petroleum Hydrocarbons**

The laboratory analytical results for three ocean water samples collected at the Project Site did not indicate the presence of TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>), diesel fuel (C<sub>13</sub>-C<sub>22</sub>), or motor oil (C<sub>23</sub>-C<sub>40</sub>) in excess of the analytical method reporting limits. Refer to Table 9.

#### **4.5.2 Volatile Organic Compounds**

The laboratory analytical results for three ocean water samples did not indicate the presence of VOCs constituent concentrations in excess of the analytical method reporting limits. Refer to Table 10.

#### **4.5.3 Semi-Volatile Organic Compounds**

The laboratory analytical results for three ocean water samples did not indicate the presence of SVOCs constituent concentrations in excess of the analytical method reporting limits. Refer to Table 11 - Laboratory Analytical Results for Water Samples - Semi-Volatile Organic Compounds.

#### **4.5.4 Title 22/CAM 17 Metals**

The laboratory analytical results for three ocean water samples indicated concentrations of barium that were less than WQO and ESL values. The laboratory analytical results indicated selenium concentrations in all three ocean water samples that were in excess of the ESL (0.0005 mg/l) and WQO (0.06 mg/l) values, which is likely associated with organic material present



throughout the revetment wall rip-rap material. Refer to Table 12 - Laboratory Analytical Results for Water Samples - Title 22/CAM 17 Metals.

#### **4.6 ESTIMATED SOIL VOLUMES**

Padre has prepared soil volume estimates for the areas identified within the island core to contain petroleum hydrocarbon concentrations in excess of 100 mg/kg. The estimated total volume of petroleum hydrocarbon-containing soil identified within the island core at the Project Site is approximately 9,605 cubic yards. The estimated volume of petroleum hydrocarbon-containing soil identified within the northern area of the Project Site is approximately 6,300 cubic yards. The estimated volume of petroleum hydrocarbon-containing soil identified within the southern area of the Project Site is approximately 2,475 cubic yards. The estimated volume of petroleum hydrocarbon-containing soil identified within the southeastern area of the Project Site is approximately 830 cubic yards. Refer to Plate 3 – Distribution of TPH in Soil.

### **5.0 CONCLUSIONS**

Padre, on behalf of CSLC, has prepared this Report of Site Assessment Activities as part of facility decommissioning planning activities at Rincon Island Lease 1466, 6687 Breakers Way, Ventura, California 93001.

The objective of the site assessment activities was to determine the potential presence of constituents of concern located within the island soil core and interstitial water at the Rincon Island structure resulting from historical petroleum hydrocarbon production and processing activities conducted at the Project Site. Additionally, the site assessment activities included the collection of ocean water samples from within the revetment wall rip-rap material immediately adjacent to the island perimeter. The results of the soil and interstitial water assessment activities have been used to identify areas of potential concern in the vicinity of the former crude oil and gas production, storage, and processing facilities, as well as to provide an understanding of the nature and extent of the artificial fill materials the make up the island core with respect to the perimeter rock revetments.

Padre completed initial limited soil assessment activities at the Project Site in support of Driltek and the facility decommissioning activities on March 3 and 5, 2021. Padre completed the soil and interstitial water assessment activities at the Project Site on May 4, 5, 11, and 13 and October 4, 2021. The results of the site assessment activities completed by Padre at the Project Site are summarized below.

The scope of work included advancement of a total of 21 drill holes using Geoprobe® direct-push and hollow-stem auger drilling methods to facilitate the collection of discrete depth soil samples for chemical analyses to maximum depths of 20-feet bgs. A total of three temporary interstitial water monitoring wells (MW-1, MW-2, and MW-3) were constructed at the Project Site to facilitate the collection of interstitial water samples for chemical analyses. A total of 60 soil samples were chemically analyzed for the presence of petroleum hydrocarbons, and a subset of the soil samples were also chemically analyzed for the presence of BTEX, VOCs, SVOCs, PAHs,

Title 22/CAM 17 metals, PCBs, and hazardous waste characteristics. Interstitial water samples collected from the three temporary monitoring wells were chemically analyzed for the presence of TPH, BTEX, and TDS. Three ocean water samples were chemically analyzed for the presence of TPH, VOCs, SVOCs, and Title 22/CAM17 metals.

The laboratory analytical results for soil samples collected from the Project Site were compared to the RWQCB-LAR document titled *Interim Site Assessment and Cleanup Guidebook*, dated May 1996, which includes reference to State Water Resources Control Board Resolution No. 88-63 - Adoption of Policy Entitled "Sources of Drinking Water". Based on the reported TDS concentrations at the Project Site (>3,000 mg/l), TPH concentrations in soil for "greater than 150 feet above groundwater" have been used as Maximum Soil Screening Levels to be protective of human health and the environment at the Project Site. Additionally, Padre compared the laboratory analytical results for soil and groundwater samples to the SFBRWQCB ESL, specifically, constituents of concern in soil were compared to the Summary of Soil ESLs (mg/kg), Leaching to Groundwater Levels (Table S-3), Non-Drinking Water, and metals concentrations were compared to the Soil Tier 1 ESLs. Groundwater results were compared to Summary of Groundwater ESLs (µg/l) Aquatic Habitat Goal Levels (Table GS-2) Saltwater Ecotox. The laboratory analytical results for metals and hazardous waste characteristics were also compared to CCR Title 22 Section 66261 values for characterizing hazardous waste. Arsenic concentrations were compared to the DTSC upper-bound naturally occurring arsenic screening level concentration of 12 mg/kg.

The laboratory analytical results for interstitial water and ocean water samples were also compared to the Water Quality Objectives (WQO) listed in the State Water Resources Control Board, California Environmental Protection Agency, *California Ocean Plan, Water Quality Control Plan, Ocean Waters of California*, established in 1972 and revised in 2019 (SWRCB, 2019).

The design elevation of the working surface of the island is approximately 16-feet above MLLW of the Pacific Ocean, and approximately 15-feet above MSL. The depth to interstitial water measured at temporary monitoring wells MW-1, MW-2, and MW-3 ranged from approximately 11.96-feet to 14.61-feet below the top of well casings, which correspond to elevations that range from approximately 0.47-feet to 3.18-feet MSL. The island core is composed of artificial fill materials imported from the bluff at Punta Gorda located east of the Project Site and consist of fine to coarse grained sand with varying amounts of silt, pebbles, gravel, and minor amounts of shell fragments.

The laboratory analytical results for 31 soil samples collected at the Project Site identified the presence of petroleum hydrocarbon concentrations within the artificial fill material of the island core at depths from approximately 1-foot to 16-feet bgs. The laboratory analytical results indicated one soil sample, GP-15-8 collected at an approximate depth of 8-feet bgs, contained TPH identified as gasoline (C<sub>4</sub>-C<sub>12</sub>) concentrations in excess of the maximum soil screening level value of 1,000 mg/kg.

Additionally, the laboratory analytical results indicated one soil sample contained a naphthalene concentration of 1.5 mg/kg that slightly exceeded the applicable ESL value of 1.15 mg/kg. According to ATSDR, naphthalene is a white solid that evaporates easily, smells like moth balls, and occurs naturally in petroleum. Naphthalene has a short half-life in most natural waters and soils because of its tendency to volatilize and biodegrade, and therefore, there is little tendency for naphthalene to build up in the environment over time.

The laboratory analytical results for soil samples did not indicate the presence of BTEX, VOCs, SVOCs, PAHs, Title 22/CAM17 metals, PCBs, or hazardous waste characteristics in excess of the applicable screening levels.

The laboratory analytical results for interstitial water samples collected from temporary monitoring wells (MW-1, MW-2, and MW-3) indicated petroleum hydrocarbon concentrations that were less than the applicable ESLs. Concentrations of BTEX were not detected in excess of the PQLs and TDS concentrations exceeded 3,000 mg/l. The analytical method PQLs for BTEX did not exceed the ESLs or WQO values.

The laboratory analytical results for three ocean water samples collected at the Project Site did not indicate the presence of TPH, VOCs, or SVOCs in excess of the ESLs or WQO values. The laboratory analytical results indicated all three ocean water samples contained selenium concentrations that were in excess of the ESL (0.0005 mg/l) and WQO (0.06 mg/l) values, which is likely associated with organic material present throughout the revetment wall rip-rap material.

The estimated total volume of petroleum hydrocarbon-containing soil identified within the island core at the Project Site is approximately 9,605 cubic yards (12,960 tons). The estimated volume of petroleum hydrocarbon-containing soil identified within the northern area of the Project Site is approximately 6,300 cubic yards (8,500 tons). The estimated volume of petroleum hydrocarbon-containing soil identified within the southern area of the Project Site is approximately 2,475 cubic yards (3,340 tons). The estimated volume of petroleum hydrocarbon-containing soil identified within the southeastern area of the Project Site is approximately 830 cubic yards (1,120 tons).

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## 6.0 REFERENCES

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## TABLES

**Table 1. Summary of Survey Data  
 Rincon Island  
 Mussel Shoals, Ventura County, California**

Sample/Drill Hole No.	Ground Surface Elevation (feet MSL)	Interstitial Water Elevation (feet MSL)	Depth to Interstitial Water (feet)	Northing (feet)	Easting (feet)
WB-030321-1	15.01	--	--	1951901.078	6125387.407
WB-030321-2	15.02	--	--	1951895.605	6125386.972
WB-030321-3	15.03	--	--	1951907.035	6125385.584
MW-1	15.14	3.18	11.96	1952023.030	6125392.519
MW-2	15.14	1.78	13.36	1952025.880	6125479.423
MW-3	15.08	0.47	14.61	1951955.084	6125415.568
GP-1	15.16	--	--	1952088.329	6125501.063
GP-2	15.17	--	--	1952041.030	6125528.530
GP-3	15.55	--	--	1952003.530	6125498.134
GP-4	14.34	--	--	1951959.793	6125505.177
GP-5	15.45	--	--	1952003.464	6125435.519
GP-6	15.39	--	--	1952069.301	6125420.836
GP-7	15.68	--	--	1951893.233	6125376.763
GP-8	15.09	--	--	1951920.865	6125428.883
GP-9	15.29	--	--	1951976.142	6125387.116
GP-10	15.52	--	--	1951977.333	6125344.466
GP-11	15.11	--	--	1952057.021	6125354.475
GP-12	11.08	--	--	1951964.751	6125452.671
GP-13	10.44	--	--	1951938.406	6125487.767
GP-14	10.36	--	--	1951957.838	6125486.627
GP-15	12.70	--	--	1951973.281	6125523.496
GP-16	10.63	--	--	1951971.179	6125536.314
GP-17	8.69	--	--	1952010.119	6125552.496
GP-18	10.47	--	--	1952007.855	6125545.548
OW-100421-1	--	--	--	1952014.295	6125623.908
OW-100421-2	--	--	--	1952108.568	6125320.195
OW-100421-3	--	--	--	1951828.825	6125408.444

**Notes:**

- WB = Soil Sample Collected from the Well Bay Area.
- MW = Groundwater Monitoring Well
- GP = Geoprobe Drill Hole
- OW = Ocean Water Sample
- feet MSL = feet above Mean Sea Level
- State Plane Coordinates = NAD\_1983\_StatePlane\_California\_V\_FIPS\_0405\_Feet
- = No Data / Not Measured

**Table 2. Laboratory Analytical Results for Soil Samples - Total Petroleum Hydrocarbons  
 Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm).

Sample Name	Date	Depth (feet)	TPH C4-C12	TPH C13-C22	TPH C23-C40	Total TPH
<b>Maximum Soil Screening Level</b>			1000	10000	50000	--
<b>Leaching to Groundwater, Non-Drinking Water ESL</b>			4932	7284	--	--
WB-030321-1	3/3/2021	3	<b>350</b>	<b>1200</b>	<b>2600</b>	4150
WB-030321-2	3/3/2021	2	<b>670</b>	<b>3900</b>	<b>11000</b>	15570
WB-030321-3	3/3/2021	2	<b>9.7</b>	<b>1200</b>	<b>1500</b>	2710
WB-030521-4	3/5/2021	4	<b>660</b>	<b>5900</b>	<b>3900</b>	10460
MW-1-5	5/4/2021	5	<0.5	<10	<50	--
MW-1-10	5/4/2021	10	<0.49	<10	<50	--
MW-2-5	5/4/2021	5	<0.5	<b>21</b>	<b>110</b>	131
MW-2-10	5/4/2021	10	<0.5	<10	<50	--
MW-3-5	5/4/2021	5	<b>400</b>	<b>1500</b>	<b>700</b>	2600
MW-3-10	5/4/2021	10	0.21J	<b>54</b>	<50	54
MW-3-15	5/4/2021	15	<0.5	<10	<50	--
GP-1-4	5/11/2021	4	<b>2.4</b>	<b>61</b>	<b>610</b>	673
GP-1-12	5/11/2021	12	<b>4.5</b>	<10	<50	4.5
GP-1-16	5/11/2021	16	<b>1.9</b>	<10	<50	1.9
GP-2-4	5/11/2021	4	<0.5	9.2J	<50	--
GP-2-12	5/11/2021	12	<0.5	<10	<50	--
GP-3-4	5/11/2021	4	<0.5	<10	<50	--
GP-3-12	5/11/2021	12	<0.5	<10	<50	--
GP-4-4	5/11/2021	4	<0.5	<10	<50	--
GP-4-12	5/11/2021	12	<0.49	<10	<50	--
GP-5-4	5/11/2021	4	<0.5	<b>11</b>	<50	11
GP-5-12	5/11/2021	12	<0.5	<10	<50	--
GP-6-4	5/11/2021	4	<0.49	<b>18</b>	<50	18
GP-6-8	5/11/2021	8	<0.49	<b>250</b>	<b>1600</b>	1850
GP-6-12	5/11/2021	12	<0.5	<10	<50	--
GP-7-8	5/11/2021	8	<b>41</b>	<10	<50	41
GP-7-12	5/11/2021	12	<4.8	<b>11</b>	<50	11



Table 2 - continued.

Sample Name	Date	Depth (feet)	TPH C4-C12	TPH C13-C22	TPH C23-C40	Total TPH
<b>Maximum Soil Screening Level</b>			1000	10000	50000	--
<b>Leaching to Groundwater, Non-Drinking Water ESL</b>			4932	7284	--	--
GP-7-16	5/11/2021	16	<b>11</b>	<b>120</b>	230	361
GP-8-4	5/11/2021	4	--	<b>21</b>	<50	21
GP-8-8	5/11/2021	8	<0.5	<10	<50	--
GP-8-12	5/11/2021	12	--	<10	<50	--
GP-8-16	5/11/2021	16	<0.51	<10	<50	--
GP-9-4	5/11/2021	4	<0.5	<b>10</b>	<50	10
GP-9-12	5/11/2021	12	<0.5	<10	<50	--
GP-10-8	5/11/2021	8	<0.5	<10	<50	--
GP-10-12	5/11/2021	12	<0.49	<10	<50	--
GP-11-4	5/11/2021	4	<b>0.57</b>	<b>1100</b>	<b>150</b>	1,251
GP-11-12	5/11/2021	12	--	<b>6800</b>	<b>270</b>	7070*
GP-11-14	5/11/2021	14	<b>660</b>	<b>260</b>	<50	920
GP-11-16	5/11/2021	16	<0.5	<10	<50	--
GP-12-4	10/4/2021	4	<b>11</b>	<b>11</b>	<50	22
GP-12-8	10/4/2021	8	<0.50	<9.9	<50	--
GP-12-16	10/4/2021	16	<0.50	<10	<50	--
GP-13-4	10/4/2021	4	<0.50	<9.9	<49	--
GP-13-8	10/4/2021	8	<0.49	<10	<50	--
GP-13-16	10/4/2021	16	<0.50	<9.9	<49	--
GP-14-4	10/4/2021	4	<0.49	<b>10</b>	44J	10
GP-14-8	10/4/2021	8	<0.50	<10	<50	--
GP-14-16	10/4/2021	16	<0.50	<10	<50	--
GP-15-4	10/4/2021	4	<b>54</b>	<10	<50	54
GP-15-8	10/4/2021	8	<b>3,200</b>	<b>26</b>	<b>92</b>	3,318
GP-15-12	10/4/2021	12	<b>21</b>	<b>370</b>	<b>290</b>	681
GP-15-16	10/4/2021	16	<b>43</b>	<9.9	<50	43
GP-15-20	10/4/2021	20	<b>17</b>	<10	<50	17
GP-16-4	10/4/2021	4	<0.50	<10	<50	--
GP-16-8	10/4/2021	8	0.20J	<10	<50	--

Table 2 - continued.

Sample Name	Date	Depth (feet)	TPH C4-C12	TPH C13-C22	TPH C23-C40	Total TPH
<b>Maximum Soil Screening Level</b>			1000	10000	50000	--
<b>Leaching to Groundwater, Non-Drinking Water ESL</b>			4932	7284	--	--
GP-17-4	10/4/2021	4	<0.49	<9.9	<49	--
GP-17-8	10/4/2021	8	<0.49	<b>160</b>	<b>130</b>	290
GP-18-4	10/4/2021	4	<0.50	<b>22</b>	<49	22
GP-18-8	10/4/2021	8	<0.50	<b>37</b>	<b>120</b>	157

**Notes:**

TPH C4-C12 = Total Petroleum Hydrocarbons identified as gasoline by U.S. EPA method 8260B

TPH C13-C22 = Total Petroleum Hydrocarbons identified as diesel fuel by U.S. EPA method 8015M

TPH C23-C40 = Total Petroleum Hydrocarbons identified as motor oil by U.S. EPA method 8015M

Total TPH = sum of gasoline, diesel, and motor oil concentrations for each respective soil sample.

Maximum Soil Screening Level (orange) = Los Angeles Regional Water Quality Control Board, May 1996 Guidbook

ESL (Gold) = Environmental Screening Levels - San Francisco Bay Regional Water Quality Control Board - 2019 (Rev. 2)

- Leaching to Groundwater Levels (S-3), Non-drinking water.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates soil sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective Maximum Soil Screening Level (orange) or ESL (gold)

\* - Total TPH value does not include TPH C4-C12 identified as gasoline

**Table 3. Laboratory Analytical Results for Soil Samples - Volatile Organic Compounds  
Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm).

Sample Name			WB-030321-2	MW-1-5	MW-1-10	MW-2-5	MW-2-10	MW-3-5	MW-3-10	MW-3-15	GP-1-4	GP-1-12	GP-1-16	GP-2-4	GP-2-12
Date			3/3/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021
Depth (feet)			2	5	10	5	10	5	10	15	4	12	16	4	12
Analyte	Maximum Soil Screening Levels	ESL													
Benzene	0.077	0.025	<0.25	<0.005	<0.0049	<0.005	<0.005	<0.046	<0.005	<0.005	<0.0051	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	17	0.43	<b>0.31</b>	<0.005	<0.0049	<0.005	<0.005	<0.046	<0.005	<0.005	<0.0051	<0.005	<0.005	<0.005	<0.005
Toluene	4.0	10.29	<0.25	<0.005	<0.0049	<0.005	<0.005	<0.046	<0.005	<0.005	<0.0051	<0.005	<0.005	<0.005	<0.005
Xylenes (total)	48	10.40	<b>1.20</b>	<0.005	<0.0049	<0.005	<0.005	<0.046	<0.005	<0.005	<0.0051	<0.005	<0.005	<0.005	<0.005
Bromobenzene	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Bromochloromethane	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Bromodichloromethane	--	0.016	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Bromoform	--	1.00	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Bromomethane	--	0.83	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
n-Butylbenzene	--	--	<b>0.66</b>	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
sec-Butylbenzene	--	--	<b>0.51</b>	--	--	--	--	<b>0.41</b>	--	--	<0.0051	--	--	--	--
tert-Butylbenzene	--	--	<0.25	--	--	--	--	0.034J	--	--	0.0026J	--	--	--	--
Carbon tetrachloride	--	0.08	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Chlorobenzene	--	1.44	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Chloroethane	--	11.51	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Chloroform	--	0.023	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Chloromethane	--	14.80	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
2-Chlorotoluene	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
4-Chlorotoluene	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Dibromochloromethane	--	11.18	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2-Dibromo-3-chloropropane	--	0.001	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2-Dibromoethane (EDB)	--	0.002	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Dibromomethane	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2-Dichlorobenzene	--	1.05	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,3-Dichlorobenzene	--	7.40	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,4-Dichlorobenzene	--	0.20	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Dichlorodifluoromethane	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1-Dichloroethane	--	0.31	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2-Dichloroethane	--	0.03	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1-Dichloroethene	--	4.18	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
cis-1,2-Dichloroethene	--	1.57	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
trans-1,2-Dichloroethene	--	14.24	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2-Dichloropropane	--	0.06	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,3-Dichloropropane	--	0.04	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
2,2-Dichloropropane	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1-Dichloropropene	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
cis-1,3-Dichloropropene	--	0.04	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
trans-1,3-Dichloropropene	--	0.04	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Hexachlorobutadiene	--	0.06	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
4-Isopropyl Toluene	--	--	<b>1.1</b>	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Isopropylbenzene	--	--	<b>0.97</b>	--	--	--	--	0.034J	--	--	<0.0051	--	--	--	--
Methylene chloride	--	0.19	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Naphthalene	--	1.15	<b>1.5</b>	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--

Table 3 - continued.

Sample Name			WB-030321-2	MW-1-5	MW-1-10	MW-2-5	MW-2-10	MW-3-5	MW-3-10	MW-3-15	GP-1-4	GP-1-12	GP-1-16	GP-2-4	GP-2-12
Date			3/3/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/4/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021
Depth (feet)			2	5	10	5	10	5	10	15	4	12	16	4	12
Analyte	Maximum Soil Screening Levels	ESL													
n-Propylbenzene	--	--	2.7	--	--	--	--	0.034J	--	--	<0.0051	--	--	--	--
Styrene	--	10.09	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1,1,2-Tetrachloroethane	--	0.11	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1,2,2-Tetrachloroethane	--	0.06	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Tetrachloroethene (PCE)	--	0.08	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2,3-Trichlorobenzene	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2,4-Trichlorobenzene	--	6.03	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1,1-Trichloroethane	--	7.04	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,1,2-Trichloroethane	--	0.08	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Trichloroethene (TCE)	--	0.08	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Trichlorofluoromethane	--	--	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2,3-Trichloropropane	--	0.0001	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,2,4-Trimethylbenzene	--	--	3.5	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
1,3,5-Trimethylbenzene	--	--	0.1J	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--
Vinyl chloride	--	0.002	<0.25	--	--	--	--	<0.046	--	--	<0.0051	--	--	--	--

Table 3 - continued.

Sample Name			GP-3-4	GP-3-12	GP-4-4	GP-4-12	GP-5-4	GP-5-12	GP-6-4	GP-6-8	GP-6-12	GP-7-8	GP-7-12	GP-7-16	GP-8-8	GP-8-16	GP-9-4	GP-9-12
Date			5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021
Depth (feet)			4	12	4	12	4	12	4	8	12	8	12	16	8	16	4	12
Analyte	Maximum Soil Screening Levels	ESL																
Benzene	0.077	0.025	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.0049	<0.0049	<0.005	<0.048	<0.048	<0.047	<0.005	<0.0051	<0.005	<0.005
Ethylbenzene	17	0.43	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.0049	<0.0049	<0.005	<0.048	<0.048	<0.047	<0.005	<0.0051	<0.005	<0.005
Toluene	4.0	10.29	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.0049	<0.0049	<0.005	<0.048	<0.048	<0.047	<0.005	<0.0051	<0.005	<0.005
Xylenes (total)	48	10.40	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.0049	<0.0049	<0.005	<0.048	<0.048	<0.047	<0.005	<0.0051	<0.005	<0.005
Bromobenzene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Bromochloromethane	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Bromodichloromethane	--	0.016	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Bromoform	--	1.00	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Bromomethane	--	0.83	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
n-Butylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
sec-Butylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
tert-Butylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Carbon tetrachloride	--	0.08	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Chlorobenzene	--	1.44	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Chloroethane	--	11.51	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Chloroform	--	0.023	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Chloromethane	--	14.80	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
2-Chlorotoluene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
4-Chlorotoluene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Dibromochloromethane	--	11.18	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2-Dibromo-3-chloropropane	--	0.001	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2-Dibromoethane (EDB)	--	0.002	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Dibromomethane	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2-Dichlorobenzene	--	1.05	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,3-Dichlorobenzene	--	7.40	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,4-Dichlorobenzene	--	0.20	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1-Dichloroethane	--	0.31	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2-Dichloroethane	--	0.03	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1-Dichloroethene	--	4.18	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
cis-1,2-Dichloroethene	--	1.57	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
trans-1,2-Dichloroethene	--	14.24	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2-Dichloropropane	--	0.06	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,3-Dichloropropane	--	0.04	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
2,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
cis-1,3-Dichloropropene	--	0.04	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
trans-1,3-Dichloropropene	--	0.04	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Hexachlorobutadiene	--	0.06	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
4-Isopropyl Toluene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Methylene chloride	--	0.19	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Naphthalene	--	1.15	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--

Table 3 - continued.

Sample Name			GP-3-4	GP-3-12	GP-4-4	GP-4-12	GP-5-4	GP-5-12	GP-6-4	GP-6-8	GP-6-12	GP-7-8	GP-7-12	GP-7-16	GP-8-8	GP-8-16	GP-9-4	GP-9-12	
Date			5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	
Depth (feet)			4	12	4	12	4	12	4	8	12	8	12	16	8	16	4	12	
Analyte	Maximum Soil Screening Levels	ESL																	
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Styrene	--	10.09	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1,1,2-Tetrachloroethane	--	0.11	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1,2,2-Tetrachloroethane	--	0.06	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Tetrachloroethene (PCE)	--	0.08	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2,3-Trichlorobenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2,4-Trichlorobenzene	--	6.03	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1,1-Trichloroethane	--	7.04	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,1,2-Trichloroethane	--	0.08	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Trichloroethene (TCE)	--	0.08	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2,3-Trichloropropane	--	0.0001	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--
Vinyl chloride	--	0.002	--	--	--	--	--	--	--	--	--	--	--	<0.048	--	<0.005	--	--	--







Table 3 - continued.

Sample Name			GP-15-12	GP-15-16	GP-15-20	GP-16-4	GP-16-8	GP-17-4	GP-17-8	GP-18-4	GP-18-8
Date			10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021
Depth (feet)			12	16	20	4	8	4	8	4	8
Analyte	Maximum Soil Screening Levels	ESL									
Benzene	0.077	0.025	<0.0050	<0.0051	<0.025	<0.0050	<0.0050	<0.0049	<0.0049	<0.0050	<0.0050
Ethylbenzene	17	0.43	<0.0050	<0.0051	<0.025	<0.0050	<0.0050	<0.0049	<0.0049	<0.0050	<0.0050
Toluene	4.0	10.29	<0.0050	<0.0051	<0.025	<0.0050	<0.0050	<0.0049	<0.0049	<0.0050	<0.0050
Xylenes (total)	48	10.40	<0.0050	<0.0051	<0.025	<0.0050	<0.0050	<0.0049	<0.0049	<0.0050	<0.0050
Bromobenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Bromochloromethane	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Bromodichloromethane	--	0.016	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Bromoform	--	1.00	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Bromomethane	--	0.83	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
n-Butylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
sec-Butylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
tert-Butylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Carbon tetrachloride	--	0.08	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Chlorobenzene	--	1.44	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Chloroethane	--	11.51	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Chloroform	--	0.023	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Chloromethane	--	14.80	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
2-Chlorotoluene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
4-Chlorotoluene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Dibromochloromethane	--	11.18	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2-Dibromo-3-chloropropane	--	0.001	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2-Dibromoethane (EDB)	--	0.002	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Dibromomethane	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2-Dichlorobenzene	--	1.05	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,3-Dichlorobenzene	--	7.40	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,4-Dichlorobenzene	--	0.20	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Dichlorodifluoromethane	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1-Dichloroethane	--	0.31	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2-Dichloroethane	--	0.03	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1-Dichloroethene	--	4.18	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
cis-1,2-Dichloroethene	--	1.57	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
trans-1,2-Dichloroethene	--	14.24	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2-Dichloropropane	--	0.06	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,3-Dichloropropane	--	0.04	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
2,2-Dichloropropane	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1-Dichloropropene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
cis-1,3-Dichloropropene	--	0.04	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
trans-1,3-Dichloropropene	--	0.04	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Hexachlorobutadiene	--	0.06	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
4-Isopropyl Toluene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Isopropylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Methylene chloride	--	0.19	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Naphthalene	--	1.15	--	0.044J	0.043	--	--	--	<0.0049	--	--

Table 3 - continued.

Sample Name			GP-15-12	GP-15-16	GP-15-20	GP-16-4	GP-16-8	GP-17-4	GP-17-8	GP-18-4	GP-18-8
Date			10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021
Depth (feet)			12	16	20	4	8	4	8	4	8
Analyte	Maximum Soil Screening Levels	ESL									
n-Propylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Styrene	--	10.09	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1,1,2-Tetrachloroethane	--	0.11	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1,2,2-Tetrachloroethane	--	0.06	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Tetrachloroethene (PCE)	--	0.08	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2,3-Trichlorobenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2,4-Trichlorobenzene	--	6.03	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1,1-Trichloroethane	--	7.04	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,1,2-Trichloroethane	--	0.08	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Trichloroethene (TCE)	--	0.08	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Trichlorofluoromethane	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2,3-Trichloropropane	--	0.0001	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,2,4-Trimethylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
1,3,5-Trimethylbenzene	--	--	--	<0.0051	<0.025	--	--	--	<0.0049	--	--
Vinyl chloride	--	0.002	--	<0.0051	<0.025	--	--	--	<0.0049	--	--

Notes:

VOCs = Volatile Organic Compounds by U.S. EPA method 8260B

Maximum Soil Screening Level (orange) = Los Angeles Regional Water Quality Control Board, May 1996 Guidbook

ESL - Environmental Screening Levels (gold) = San Francisco Bay Regional Water Quality Control Board - 2019 (Rev. 2) - Leaching to Groundwater Levels (S-3), Non-drinking water.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates soil sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective Maximum Soil Screening Level (orange) or ESL (gold)

**Table 4. Laboratory Analytical Results for Soil Samples - Semi-Volatile Organic Compounds  
Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm).

Sample Name	WB-030321-2	MW-3-5	GP-1-4	GP-2-4	GP-3-4	GP-4-4	GP-5-4	GP-6-8	GP-7-12	GP-8-8	GP-9-12	GP-11-14	GP-12-4	GP-13-4	GP-15-8	GP-15-16	GP-17-8	
Date	3/3/2021	5/4/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	
Depth (feet)	2	5	4	4	4	4	4	8	12	8	12	14	4	4	8	16	8	
Analyte	ESL																	
Acenaphthene	12	<8.4	<b>0.34</b>	0.0093J	<0.005	<0.005	<0.005	<0.005	<0.01	<b>0.012</b>	<b>0.17</b>	<0.005	<b>0.91</b>	<0.20	<0.20	<0.20	<0.20	<0.10
Acenaphthylene	6.36	<8.4	0.07	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Anthracene	1.94	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	0.029	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Benz (a) anthracene	10	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Benzo (b) fluoranthene	75	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Benzo (k) fluoranthene	39	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Benzo (a) pyrene	5.66	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Benzo (g,h,i) perylene	27	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Chrysene	10	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Dibenz (a,h) anthracene	394	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Fluoranthene	86	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Fluorene	5.96	<8.4	<b>0.84</b>	<b>0.014</b>	<0.005	<0.005	<0.005	<0.005	<0.01	0.0033J	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Indeno (1,2,3-cd) pyrene	32	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Naphthalene	1.15	5.8J	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<b>0.81</b>	<0.20	<0.20	<0.20	<0.10
Phenanthrene	11	<8.4	<b>0.29</b>	<b>0.012</b>	<0.005	<0.005	<0.005	<0.005	<0.01	0.004J	0.008J	<0.005	<b>5.2</b>	<0.20	<0.20	<0.20	<0.20	<0.10
Pyrene	45	<8.4	<0.04	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.4	<0.20	<0.20	<0.20	<0.20	<0.10
Aniline	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Azobenzene	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Benzoic acid	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Benzyl alcohol	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
bis(2-Chloro-1-methylethyl)ether	0.87	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Bis(2-chloroethoxy)methane	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Bis(2-chloroethyl)ether	0.03	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Bis(2-ethylhexyl) phthalate	637	5.7J	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Bromophenyl phenyl ether	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Butyl benzyl phthalate	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Carbazole	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Chloro-3-methylphenol (Parachlorometa cresol)	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Chloroaniline	0.09	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2-Chloronaphthalene	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2-Chlorophenol	0.12	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Chlorophenyl phenyl ether	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Dibenzofuran	--	<8.4	--	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10

Table 4 - continued.

Sample Name	WB-030321-2	MW-3-5	GP-1-4	GP-2-4	GP-3-4	GP-4-4	GP-5-4	GP-6-8	GP-7-12	GP-8-8	GP-9-12	GP-11-14	GP-12-4	GP-13-4	GP-15-8	GP-15-16	GP-17-8
Sample Date	3/3/2021	5/4/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	5/11/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021	10/4/2021
Sample Depth (feet)	2	5	4	4	4	4	4	8	12	8	12	14	4	4	8	16	8
Analyte	ESL																
1,2-Dichlorobenzene	1.05	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
1,3-Dichlorobenzene	7.40	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
1,4-Dichlorobenzene	0.20	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
3,3-Dichlorobenzidine	133	<42	--	--	--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<0.50
2,4-Dichlorophenol	5.73	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Diethyl phthalate	0.02	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Dimethyl phthalate	0.03	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,4-Dimethylphenol	8.95	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Di-n-butyl phthalate	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4,6-Dinitro-2-methylphenol	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,4-Dinitrophenol	5.73	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,4-Dinitrotoluene	11	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,6-Dinitrotoluene	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Di-n-octyl phthalate	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Hexachlorobenzene	0.08	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Hexachlorobutadiene	0.06	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Hexachlorocyclopentadiene	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Hexachloroethane	0.09	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Isophorone	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2-Methylnaphthalene	--	4.8J	--	--	--	--	--	--	--	--	--	--	<b>0.85</b>	<0.20	<0.20	<0.20	<0.10
2-Methylphenol	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
3 & 4-Methylphenol	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2-Nitroaniline	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
3-Nitroaniline	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Nitroaniline	--	<21	--	--	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.25
Nitrobenzene	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2-Nitrophenol	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
4-Nitrophenol	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
N-Nitrosodimethylamine	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
N-Nitrosodi-n-propylamine	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
N-Nitrosodiphenylamine	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Pentachlorophenol	0.77	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Phenol	18	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
Pyridine	--	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
1,2,4-Trichlorobenzene	6.03	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,4,5-Trichlorophenol	2.92	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10
2,4,6-Trichlorophenol	31	<8.4	--	--	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.10

**Table 4 - continued.**

**Notes:**

SVOCs = Semi-Volatile Organic Compounds by U.S. EPA method 8270C

ESL (gold) = Environmental Screening Levels - San Francisco Bay Regional Water Quality Control Board - 2019 (Rev. 2) - Leaching to Groundwater Levels (S-3), Non-drinking water.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates soil sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective ESL (gold)

**Table 5. Laboratory Analytical Results for Soil Samples - CCR Title 22/CAM17 Metals**  
**Rincon Island**  
Mussel Shoals, Ventura County, California  
Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm).

Analyte			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>TTL</b>			500	500	10000	75	100	500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000
<b>STLC</b>			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
<b>TCLP</b>			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--
<b>ESL</b>			10.95	12	390	5	1.9	160	23	180	32	13	6.9	86	2.4	25	0.78	18	340
Sample Name	Date	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
WB-030321-2	3/3/2021	2	<2.3	<b>2.6</b>	<b>240</b>	<0.46	<b>0.42</b>	<b>17</b>	<b>2.9</b>	<b>23</b>	<b>24</b>	0.035J	<b>1.7</b>	<b>19</b>	<1.8	<0.46	<0.92	<b>17</b>	<b>66</b>
MW-3-10	5/4/2021	10	<2.3	<b>2.6</b>	<b>55</b>	0.23J	<0.23	<b>17</b>	<b>3.8</b>	<b>7.6</b>	<b>3.8</b>	<0.095	<b>1.3</b>	<b>23</b>	<1.9	<0.47	<0.93	<b>16</b>	<b>24</b>
GP-1-4	5/11/2021	4	<2.5	<b>4.2</b>	<b>62</b>	<0.5	<0.25	<b>15</b>	<b>4.3</b>	<b>8.5</b>	<b>4.1</b>	0.011J	<b>1.2</b>	<b>25</b>	<2.0	<0.50	<0.99	<b>17</b>	<b>30</b>
GP-2-4	5/11/2021	4	<2.3	<b>3.8</b>	<b>38</b>	<0.47	<0.23	<b>11</b>	<b>3.5</b>	<b>6.9</b>	<b>4.0</b>	0.013J	<b>0.93</b>	<b>16</b>	<1.9	<0.47	<0.93	<b>13</b>	<b>32</b>
GP-3-4	5/11/2021	4	<2.5	<b>2.5</b>	<b>39</b>	<0.5	<0.25	<b>12</b>	<b>3.3</b>	<b>5.9</b>	<b>3.5</b>	<0.099	<b>0.9</b>	<b>17</b>	<2.0	<0.50	<1.0	<b>11</b>	<b>21</b>
GP-4-4	5/11/2021	4	<2.4	<b>2.3</b>	<b>45</b>	0.24J	<0.24	<b>11</b>	<b>3.0</b>	<b>5.6</b>	<b>3.0</b>	0.0099J	<b>0.82</b>	<b>16</b>	<2.0	<0.49	<0.98	<b>12</b>	<b>19</b>
GP-5-4	5/11/2021	4	<2.4	<b>2.9</b>	<b>44</b>	<0.48	<0.24	<b>13</b>	<b>3.8</b>	<b>6.2</b>	<b>3.5</b>	<0.099	<b>1.1</b>	<b>20</b>	<1.9	<0.48	<0.96	<b>14</b>	<b>23</b>
GP-6-8	5/11/2021	8	<2.4	1.6J	<b>17</b>	<0.48	<0.24	<b>5.8</b>	<b>0.93</b>	0.92J	<b>2.1</b>	<0.091	<0.48	<b>2.1</b>	<1.9	<0.48	<0.96	<b>8.9</b>	<b>6.3</b>
GP-7-12	5/11/2021	12	<2.3	<b>3.5</b>	<b>67</b>	0.3J	<0.23	<b>10</b>	<b>4.5</b>	<b>5.4</b>	<b>7.2</b>	<0.096	0.35J	<b>8.9</b>	<1.9	<0.46	<0.93	<b>12</b>	<b>20</b>
GP-8-8	5/11/2021	8	<2.4	<b>3.8</b>	<b>40</b>	0.29J	<0.24	<b>14</b>	<b>4.6</b>	<b>8.2</b>	<b>4.4</b>	0.013J	<b>1.4</b>	<b>20</b>	<1.9	<0.49	<0.97	<b>15</b>	<b>32</b>
GP-9-12	5/11/2021	12	<2.3	<b>2.6</b>	<b>46</b>	0.24J	<0.23	<b>14</b>	<b>3.7</b>	<b>7.1</b>	<b>3.4</b>	<0.098	<b>1.1</b>	<b>21</b>	<1.9	<0.46	<0.93	<b>13</b>	<b>23</b>
GP-11-14	5/11/2021	14	<2.4	<b>3.0</b>	<b>65</b>	<0.49	<0.24	<b>17</b>	<b>20</b>	<b>10</b>	<b>4.0</b>	<0.093	<b>2.3</b>	<b>16</b>	<2.0	<0.49	<0.98	<b>18</b>	<b>26</b>
GP-12-4	10/04/2021	4	<2.4	<b>2.5</b>	<b>64</b>	<0.47	<0.24	<b>16</b>	<b>3.8</b>	<b>6.9</b>	<b>4.0</b>	0.047J	<b>1.3</b>	<b>20</b>	<1.9	<0.47	<0.95	<b>14</b>	<b>25</b>
GP-13-4	10/04/2021	4	<2.3	<b>2.6</b>	<b>58</b>	<0.47	<0.23	<b>14</b>	<b>2.7</b>	<b>5.9</b>	<b>2.8</b>	0.023J	<b>1.4</b>	<b>16</b>	<1.9	<0.47	<0.94	<b>13</b>	<b>17</b>
GP-15-8	10/04/2021	8	<2.4	<b>3.6</b>	<b>42</b>	<0.48	<0.24	<b>9.6</b>	<b>5.7</b>	<b>8.1</b>	<b>4.3</b>	0.040J	<b>1.4</b>	<b>38</b>	<1.9	<0.48	<0.97	<b>11</b>	<b>32</b>
GP-15-16	10/04/2021	16	<2.3	<b>1.3J</b>	<b>41</b>	<0.46	<0.23	<b>12</b>	<b>2.5</b>	<b>4.0</b>	<b>2.1</b>	0.018J	<b>0.72</b>	<b>16</b>	<1.8	<0.46	<0.91	<b>7.3</b>	<b>13</b>

Table 5 - continued.

Analyte			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
TTL			500	500	10000	75	100	500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000
STL			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--
ESL			10.95	12	390	5	1.9	160	23	180	32	13	6.9	86	2.4	25	0.78	18	340
Sample Name	Date	Depth (feet)																	
GP-17-4	10/04/2021	4	<2.4	<b>2.9</b>	<b>57</b>	<0.48	<0.24	<b>16</b>	<b>4.3</b>	<b>7.3</b>	<b>3.8</b>	0.050J	<b>2.3</b>	<b>18</b>	<1.9	<0.48	<0.96	<b>16</b>	<b>24</b>

Notes:

CCR Title 22/CAM17 Metals by U.S. EPA method series 6000/7000

CCR Title 22 = California Code of Regulations Title 22 Section 66261

CAM = California Administrative Manual

TTL = Total Threshold Limit Concentration reported in milligrams per kilogram (mg/kg).

STL = Soluble Threshold Limit Concentration reported in milligrams per liter (mg/l).

TCLP = Toxicity Characteristic Leaching Procedure, Code of Federal Regulations 40 CFR 261.24, reported in milligrams per liter (mg/l).

ESL (gold) = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board - 2019 (Rev. 2) - Tier 1 ESL

Arsenic results compared to the DTSC Determination of a Southern California Regional Background Arsenic Concentration in Soil upper-bound naturally occurring arsenic screening level concentration of 12 mg/kg.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates soil sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective ESL (gold)

**Table 6. Laboratory Analytical Results for Soil Samples - Polychlorinated Biphenyls**  
**Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm).

Sample Name	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB SUM
<b>ESL</b>		--	--	--	--	--	--	--	328
WB-030321-2	3/3/2021	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	--

**Notes:**

PCBs = Polychlorinated Biphenyls by U.S. EPA method 8082

ESL (gold) = Environmental Screening Levels - San Francisco Bay Regional Water Quality Control Board - 2019 (Rev. 2)

- Leaching to Groundwater Levels (S-3), Non-drinking water.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates soil sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective ESL (gold)



**Table 7. Laboratory Analytical Results for Soil Samples - Hazardous Waste Characteristics**  
**Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/kg), parts per million (ppm), unless otherwise noted.

Sample Name	Date	Depth (feet)	pH @25°C	Reactive Cyanide	Reactive Sulfide	Flashpoint °F	Bioassay 96 Hour Screen
GP-7-12	5/11/2021	12.0	9.74	<0.5	<40	>200	PASS

**Notes:**

pH by U.S. EPA method 9045

Reactive Cyanide by SW 846 7.3

Reactive Sulfide by SW 846 7.3

Flashpoint by U.S. EPA method 1010M

Bioassay 96 Hour Screen by Polisini & Miller (CDFG 1988)

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Table 8. Laboratory Analytical Results for Interstitial Water Samples**  
**Total Dissolved Solids**  
**Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per kilogram (mg/l), parts per million (ppm).

Sample Name	Sample Date	Total Dissolved Solids
	SWRCB	3000
MW-1	5/13/2021	19000
MW-2	5/13/2021	9300
MW-3	5/13/2021	21000

**Notes:**

Total Dissolved Solids by SM2540C

SWRCB (blue) - State Water Resources Control Board Resolution 88-63 Adoption of Policy Entitled "Sources of Drinking Water"

**Table 9. Laboratory Analytical Results for Water Samples  
 Total Petroleum Hydrocarbons  
 Rincon Island  
 Mussel Shoals, Ventura County, California**  
 Laboratory analytical results presented in micrograms per liter (ug/l), parts per billion (ppb).

Sample Name	Date	TPH C4-C12	TPH C13-C22	TPH C23-C40	Total TPH
<b>Saltwater Eco-Toxicity ESL</b>		3700	640	--	--
<b>Water Quality Objectives</b>		--	--	--	--
MW-1	5/13/2021	<50	<b>330</b>	<b>260</b>	590
DUPE	5/13/2021	<50	<b>330</b>	<b>250</b>	580
MW-2	5/13/2021	<50	<b>240</b>	<b>220</b>	460
MW-3	5/13/2021	20J	<b>430</b>	<b>380</b>	810
TRIP BLANK	5/13/2021	<50	--	--	--
OW-100421-1	10/4/2021	<50	<50	<100	--
OW-100421-2	10/4/2021	<50	<50	<100	--
OW-100421-3	10/4/2021	<50	<51	<100	--

**Notes:**

TPH C4-C12 = Total Petroleum Hydrocarbons identified as gasoline by U.S. EPA method 8260B

TPH C13-C22 = Total Petroleum Hydrocarbons identified as diesel fuel by U.S. EPA method 8015M

TPH C23-C40 = Total Petroleum Hydrocarbons identified as motor oil by U.S. EPA method 8015M

Total TPH = sum of gasoline, diesel, and motor oil concentrations for each respective soil sample.

ESL (gold) = Environmental Screening Level, San Francisco Bay Regional Water Quality Control Board, 2019 (Rev. 2), Aquatic Habitat Goal Levels (Table GW-2), Saltwater Ecotox

WQO (blue) = Water Quality Objectives, State Water Resources Control Board, California Environmental Protection Agency, California Ocean Plan, Water Quality Control Plan, Ocean Waters of California, Established 1972, Revised 2019.

DUPE = Duplicate interstitial water sample collected from monitoring well MW-1.

J = estimated value between the method detection limit and the analytical method reporting limit.

< = analytical result not reported in excess of the analytical method reporting limit.

-- = No Data/Not Analyzed

**Bold** value indicates water sample analytical result exceeds the respective analytical method reporting limit.

Shaded value indicates the result exceeds the respective ESL (gold) or WQO (blue)

**Table 10. Laboratory Analytical Results for Water Samples - Volatile Organic Compounds  
Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in micrograms per liter (ug/l), parts per billion (ppb).

Sample Name			MW-1	DUPE	MW-2	MW-3	TRIP BLANK	OW-100421-1	OW-100421-2	OW-100421-3
Date			5/13/2021	5/13/2021	5/13/2021	5/13/2021	5/13/2021	10/4/2021	10/4/2021	10/4/2021
Analyte	WQO	ESL								
Benzene	5.9	350	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Bromochloromethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Bromodichloromethane	--	3200	--	--	--	--	--	<0.50	<0.50	<0.50
Bromoform	130*	3200	--	--	--	--	--	<0.50	<0.50	<0.50
Bromomethane	130*	3200	--	--	--	--	--	<0.50	<0.50	<0.50
n-Butylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
sec-Butylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
tert-Butylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Carbon tetrachloride	0.9	3200	--	--	--	--	--	<0.50	<0.50	<0.50
Chlorobenzene	570	64.5	--	--	--	--	--	<0.50	<0.50	<0.50
Chloroethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Chloroform	130	3200	--	--	--	--	--	<0.50	<0.50	<0.50
Chloromethane	130*	3200	--	--	--	--	--	<0.50	<0.50	<0.50
2-Chlorotoluene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
4-Chlorotoluene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Dibromochloromethane	8.6	3200	--	--	--	--	--	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	--	--	--	--	--	--	--	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Dibromomethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	5,100**	64.5	--	--	--	--	--	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	5,100**	64.5	--	--	--	--	--	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	18	64.5	--	--	--	--	--	<0.50	<0.50	<0.50
Dichlorodifluoromethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,1-Dichloroethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,2-Dichloroethane	28	11300	--	--	--	--	--	<0.50	<0.50	<0.50
1,1-Dichloroethene	0.9	22400	--	--	--	--	--	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	--	22400	--	--	--	--	--	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	--	22400	--	--	--	--	--	<0.50	<0.50	<0.50
1,2-Dichloropropane	--	1520	--	--	--	--	--	<0.50	<0.50	<0.50
1,3-Dichloropropane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
2,2-Dichloropropane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,1-Dichloropropene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50

Table 10. continued

Sample Name			MW-1	DUPE	MW-2	MW-3	TRIP BLANK	OW-100421-1	OW-100421-2	OW-100421-3
Date			5/13/2021	5/13/2021	5/13/2021	5/13/2021	5/13/2021	10/4/2021	10/4/2021	10/4/2021
Analyte	WQO	ESL								
trans-1,3-Dichloropropene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Ethylbenzene	4100	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	14	3.2	--	--	--	--	--	<0.50	<0.50	<0.50
4-Isopropyl Toluene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Isopropylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Methylene chloride	--	3200	--	--	--	--	--	<0.50	<0.50	<0.50
Naphthalene	--	15	--	--	--	--	--	<0.50	<0.50	<0.50
n-Propylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Styrene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	2.3	902	--	--	--	--	--	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	2.0	225	--	--	--	--	--	<0.50	<0.50	<0.50
Toluene	85000	2500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	--	64.5	--	--	--	--	--	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	540000	3120	--	--	--	--	--	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	9.4	--	--	--	--	--	--	<0.50	<0.50	<0.50
Trichloroethene (TCE)	27	200	--	--	--	--	--	<0.50	<0.50	<0.50
Trichlorofluoromethane	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	--	0.006	--	--	--	--	--	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
Vinyl chloride	36	--	--	--	--	--	--	<0.50	<0.50	<0.50
Xylenes (total)	--	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

**Notes:**

Volatile Organic Compounds by U.S. EPA method 8260B

\* = Halomethanes shall mean the sum of bromoform, bromomethane, and chloromethane.

\*\* = Dichlorobenzenes shall mean the sum of 1,2- and 1,3-dichlorobenzene.

ESL (gold) = Environmental Screening Level, San Francisco Bay Regional Water Quality Control Board, 2019 (Rev. 2), Aquatic Habitat Goal Levels (Table GW-2), Saltwater Ecotox

WQO (blue) = Water Quality Objectives, 30-day Average - State Water Resources Control Board, California Environmental Protection Agency, California Ocean Plan,

Water Quality Control Plan, Ocean Waters of California, Established 1972, Revised 2019.

DUPE = Duplicate interstitial water sample collected from monitoring well MW-1.

< = not indicated at or above the analytical method reporting limit

J = estimated value between the analytical method detection limit and reporting limit

-- = No Data/Not Analyzed

**Bold** value indicates analytical result exceeds the respective analytical method reporting limit

Shaded value indicates the result exceeds the respective ESL (gold) or WQO (blue) value.

**Table 11. Laboratory Analytical Results for Water Samples  
 Semi-Volatile Organic Compounds  
 Rincon Island**

Mussel Shoals, Ventura County, California

Laboratory analytical results presented in micrograms per liter (µg/l), parts per billion (ppb).

Sample Name			OW-100421-1	OW-100421-2	OW-100421-3
Date			10/4/2021	10/4/2021	10/4/2021
Analyte	WQO	ESL			
Acenaphthene	--	15	<10	<10	<10
Acenaphthylene	--	15	<10	<10	<10
Anthracene	--	15	<10	<10	<10
Benz (a) anthracene	--	15	<10	<10	<10
Benzo (b) fluoranthene	--	15	<10	<10	<10
Benzo (k) fluoranthene	--	15	<10	<10	<10
Benzo (a) pyrene	--	15	<10	<10	<10
Benzo (g,h,i) perylene	--	15	<10	<10	<10
Chrysene	--	15	<10	<10	<10
Dibenz (a,h) anthracene	--	15	<10	<10	<10
Fluoranthene	15	8	<10	<10	<10
Fluorene	--	15	<10	<10	<10
Indeno (1,2,3-cd) pyrene	--	15	<10	<10	<10
Naphthalene	--	15	<10	<10	<10
Phenanthrene	--	5	<10	<10	<10
Pyrene	--	15	<10	<10	<10
Aniline	--	--	<10	<10	<10
Azobenzene	--	--	<10	<10	<10
Benzoic acid	--	--	<10	<10	<10
Benzyl alcohol	--	--	<10	<10	<10
bis(2-Chloro-1-methylethyl)ether	--	--	<10	<10	<10
Bis(2-chloroethoxy)methane	4.4	--	<2.0	<2.0	<2.0
Bis(2-chloroethyl)ether	0.045	--	<10	<10	<10
Bis(2-ethylhexyl) phthalate	3.5	--	<5.0	<5.0	<5.0
4-Bromophenyl phenyl ether	--	--	<2.0	<2.0	<2.0
Butyl benzyl phthalate	--	--	<2.0	<2.0	<2.0
Carbazole	--	--	<10	<10	<10
4-Chloro-3-methylphenol (Parachlorometa cresol)	--	--	<5.0	<5.0	<5.0
4-Chloroaniline	--	--	<5.0	<5.0	<5.0
2-Chloronaphthalene	--	--	<5.0	<5.0	<5.0
2-Chlorophenol	--	--	<2.0	<2.0	<2.0
4-Chlorophenyl phenyl ether	--	--	<5.0	<5.0	<5.0
Dibenzofuran	--	--	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	--	64.5	<10	<10	<10
1,3-Dichlorobenzene	--	64.5	<10	<10	<10

**Table 11 - continued.**

Sample Name			OW-100421-1	OW-100421-2	OW-100421-3
Date			10/4/2021	10/4/2021	10/4/2021
Analyte	WQO	ESL			
1,4-Dichlorobenzene	18	64.5	<10	<10	<10
3,3-Dichlorobenzidine	0.0081	--	<5.0	<5.0	<5.0
2,4-Dichlorophenol	--	--	<5.0	<5.0	<5.0
Diethyl phthalate	33,000	1.7	<2.0	<2.0	<2.0
Dimethyl phthalate	820,000	1.7	<2.0	<2.0	<2.0
2,4-Dimethylphenol	--	110	<10	<10	<10
Di-n-butyl phthalate	3500	--	<2.0	<2.0	<2.0
4,6-Dinitro-2-methylphenol	--	--	<10	<10	<10
2,4-Dinitrophenol	4	485	<10	<10	<10
2,4-Dinitrotoluene	2.6	185	<2.0	<2.0	<2.0
2,6-Dinitrotoluene	--	--	<5.0	<5.0	<5.0
Di-n-octyl phthalate	--	--	<2.0	<2.0	<2.0
Hexachlorobenzene	--	64.5	<10	<10	<10
Hexachlorobutadiene	--	3.2	<10	<10	<10
Hexachlorocyclopentadiene	58	--	<5.0	<5.0	<5.0
Hexachloroethane	2.5	94	<10	<10	<10
Isophorone	730	--	<2.0	<2.0	<2.0
2-Methylnaphthalene	--	30	<5.0	<5.0	<5.0
2-Methylphenol	--	--	<10	<10	<10
3 & 4-Methylphenol	--	--	<10	<10	<10
2-Nitroaniline	--	--	<5.0	<5.0	<5.0
3-Nitroaniline	--	--	<2.0	<2.0	<2.0
4-Nitroaniline	--	--	<10	<10	<10
Nitrobenzene	4.9	--	<2.0	<2.0	<2.0
2-Nitrophenol	--	--	<5.0	<5.0	<5.0
4-Nitrophenol	--	--	<5.0	<5.0	<5.0
N-Nitrosodimethylamine	7.3	--	<5.0	<5.0	<5.0
N-Nitrosodi-n-propylamine	0.38	--	<5.0	<5.0	<5.0
N-Nitrosodiphenylamine	2.5	--	<2.0	<2.0	<2.0
Pentachlorophenol	--	--	<10	<10	<10
Phenol	--	580	<2.0	<2.0	<2.0
Pyridine	--	--	<10	<10	<10
1,2,4-Trichlorobenzene	--	64.5	<5.0	<5.0	<5.0
2,4,5-Trichlorophenol	--	11	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	0.29	--	<5.0	<5.0	<5.0

**Notes:**

SVOCs = Semi-Volatile Organic Compounds by U.S. EPA method 8270C

ESL (gold) = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, 2019 (Rev. 2),

Aquatic Habitat Goal Levels (Table GW-2), Saltwater Ecotox

WQO (blue) = Water Quality Objectives, 30-day Average - State Water Resources Control Board, California Environmental Protection

**Table 11 - continued.**

Agency, California Ocean Plan, Water Quality Control Plan, Ocean Waters of California, Established 1972, Revised 2019.

< = not indicated at or above the analytical method reporting limit

J = estimated value between the analytical method detection limit and reporting limit

-- = Not Analyzed / No Data

**Bold** value indicates analytical result exceeds the respective analytical method reporting limit

Shaded value indicates the result exceeds the respective ESL (gold) or WQO (blue) value.



**Table 12. Laboratory Analytical Results for Water Samples - Title 22/CAM17 Metals**  
**Rincon Island**  
Mussel Shoals, Ventura County, California

Laboratory analytical results presented in milligrams per liter (mg/l), parts per million (ppm).

Sample Name	Date	Antimony	Arsenic*	Barium	Beryllium**	Cadmium*	Chromium***	Cobalt	Copper*	Lead*	Mercury*	Molybdenum	Nickel*	Selenium*	Silver*	Thallium**	Vanadium	Zinc*
<b>WQO</b>		--	0.032	--	3.30E-05	0.004	0.008	--	0.012	0.008	1.60E-05	--	0.02	0.06	0.0028	0.002	--	0.08
<b>ESL</b>		0.5	0.036	--	--	0.0093	0.05	--	0.0031	0.0081	2.50E-05	--	0.0082	0.0005	0.00019	0.213	--	0.081
OW-100421-1	10/4/2021	<0.056	<0.044	<b>0.017</b>	<0.011	<0.0056	<0.011	<0.011	<0.011	<0.011	<0.00020	0.0099J	<0.011	<b>0.16</b>	<0.011	<0.022	<0.056	<0.056
OW-100421-2	10/4/2021	<0.056	<0.044	0.0097J	<0.011	<0.0056	<0.011	<0.011	<0.011	<0.011	<0.00020	0.010J	<0.011	<b>0.15</b>	<0.011	<0.022	<0.056	<0.056
OW-100421-3	10/4/2021	<0.056	<0.044	0.0079J	<0.011	<0.0056	<0.011	<0.011	<0.011	<0.011	<0.00020	0.010J	<0.011	<b>0.15</b>	<0.011	<0.022	<0.056	<0.056

**Notes:**

Metals by U.S. EPA method series 6000/7000

WQO (blue) = Water Quality Objectives, State Water Resources Control Board, California Environmental Protection Agency, California Ocean Plan, Water Quality Control Plan, Ocean Waters of California, Established 1972, Revised 2019.

ESL (gold) = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, 2019 (Rev. 2), Aquatic Habitat Goal Levels (Table GW-2), Saltwater Ecotox

\* = WQO Limiting Concentration: Daily Maximum

\*\* = WQO 30-Day Average

\*\*\* = WQO and ESL values for Chromium VI (Hexavalent)

< = not indicated at or above the analytical method reporting limit

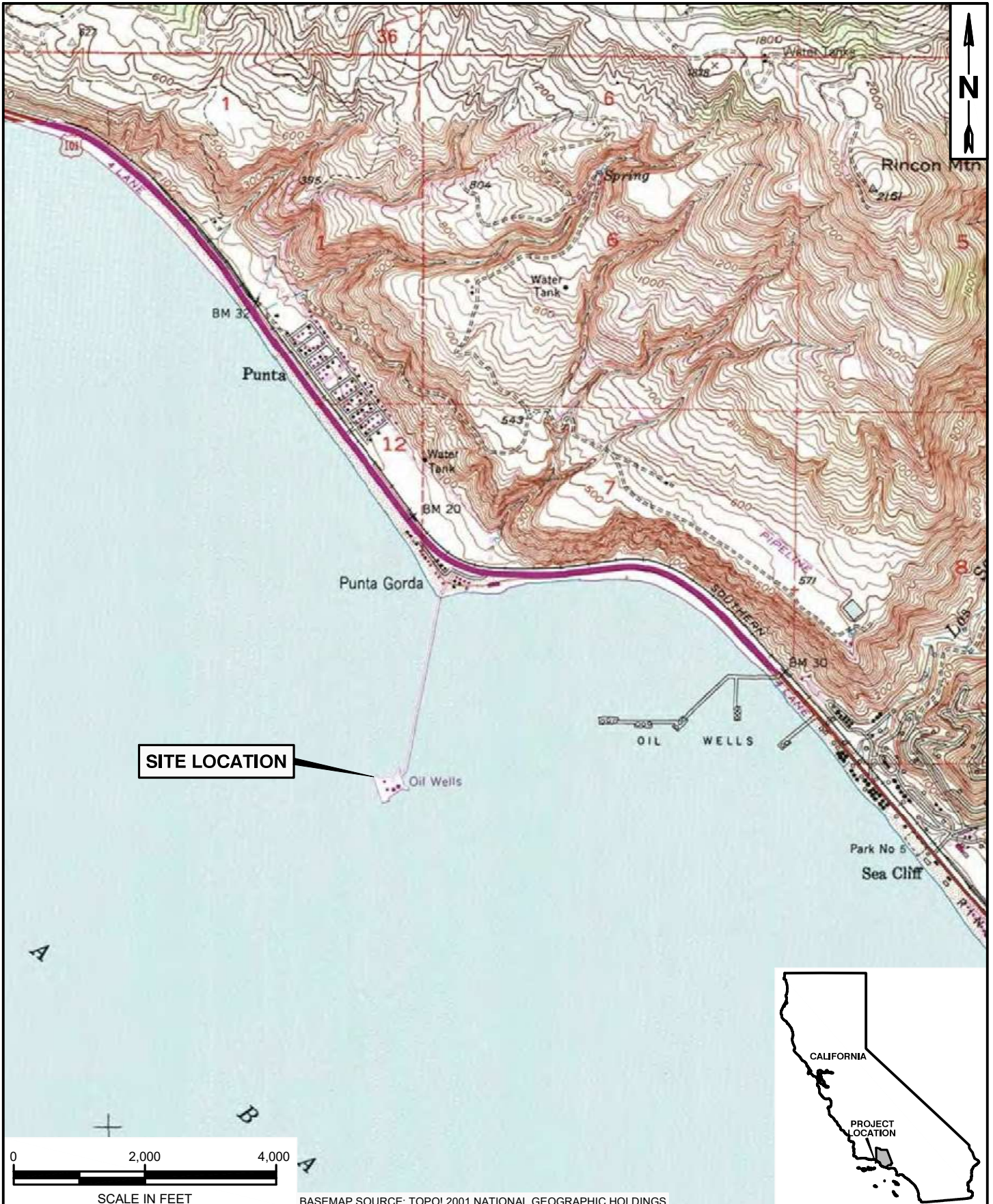
J = estimated value between the analytical method detection limit and reporting limit

-- = Not Analyzed / No Data

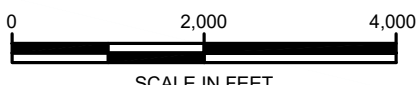
**Bold** value indicates analytical result exceeds the respective analytical method reporting limit

Shaded value indicates the result exceeds the respective ESL (gold) or WQO (blue) value.

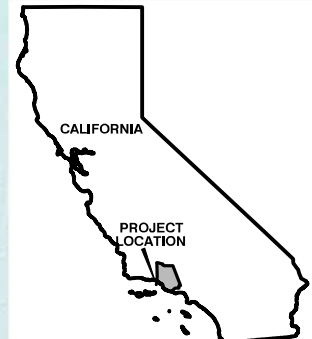
## PLATES



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SCALE IN FEET BASEMAP SOURCE: TOPO! 2001 NATIONAL GEOGRAPHIC HOLDINGS



<p><b>padre</b> associates, inc. ENGINEERS, GEOLOGISTS &amp; ENVIRONMENTAL SCIENTISTS</p>	PROJECT NAME: California State Lands Commission Rincon Island Decommissioning Project Ventura County, California		SITE LOCATION MAP	PLATE 1
	PROJECT NUMBER: 2002-7861	DATE: December 2021		



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**LEGEND**

- ⊙ GEOPROBE DRILL HOLE LOCATION (BLACK SYMBOL)
- ⊕ INTERSTITIAL WATER MONITORING WELL LOCATION (BLUE SYMBOL)
- ⊕ APPROXIMATE LOCATION OF OCEAN WATER SAMPLE (PINK SYMBOL)
- SOIL SAMPLE LOCATION (ORANGE SYMBOL)

**NOTES:**

1. INTERSTITIAL WATER MONITORING WELL LOCATIONS SURVEYED BY WM SURVEYS INC., DATED MAY 2021.
2. AERIAL BASEMAP SOURCE: DRILTEK; IMAGE DATE APRIL 2021



RI-OW-100421-2  
(SAMPLE COLLECTED  
APPROXIMATELY 20' NW)

RI-OW-100421-1

- WB-030321-3
- WB-030521-4
- WB-030321-1
- WB-030321-2

APPROXIMATE WELL BAY  
TEST PIT LOCATION

(SAMPLE COLLECTED  
APPROXIMATELY 33'SE)

RI-OW-100421-3



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ENVIRONMENTAL SCIENTISTS

PROJECT NAME:  
California State Lands Commission  
Rincon Island  
Decommissioning Project  
Ventura County, California

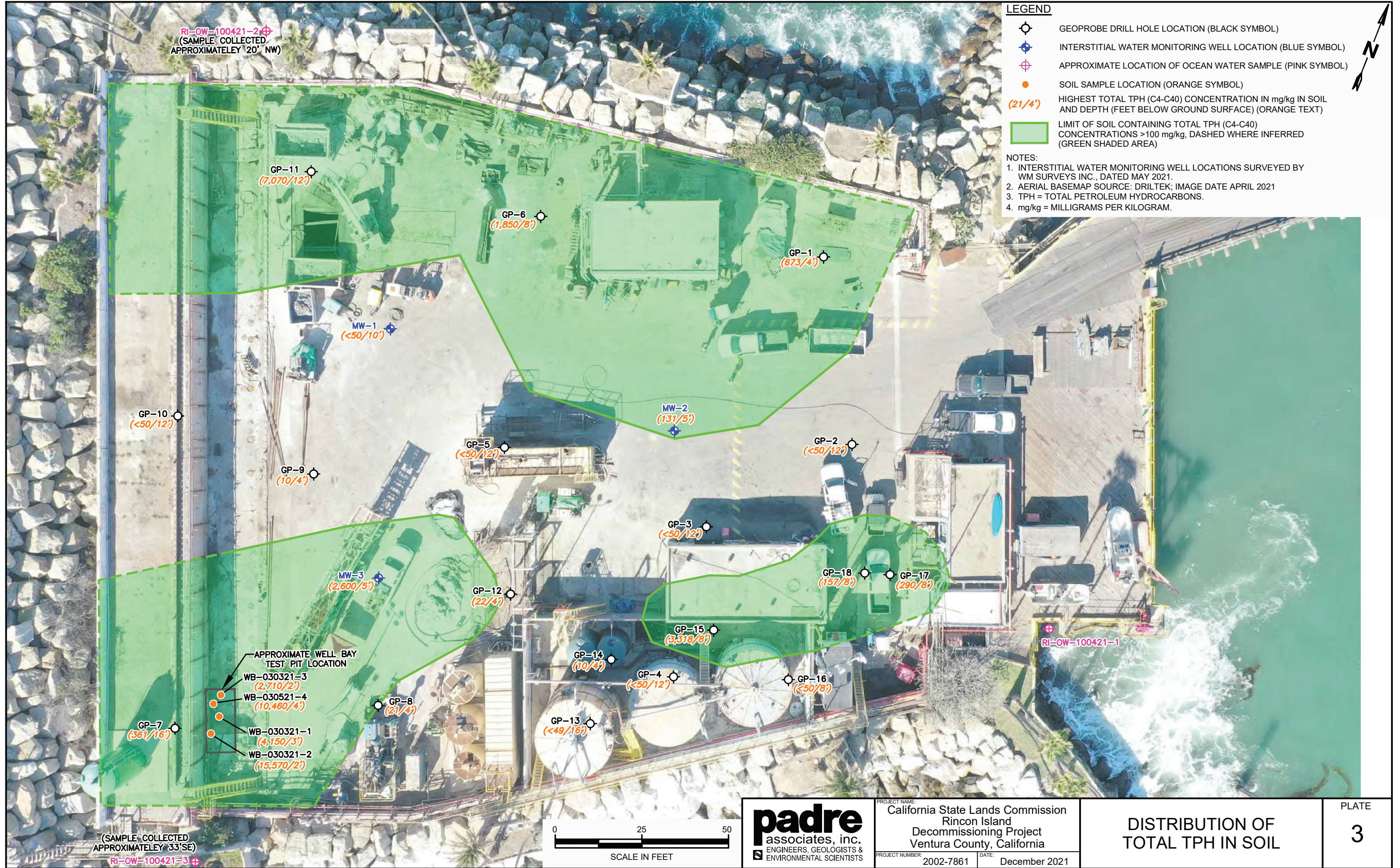
PROJECT NUMBER: 2002-7861      DATE: December 2021

SITE PLAN

PLATE  
2



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**LEGEND**

- GEOPROBE DRILL HOLE LOCATION (BLACK SYMBOL)
- INTERSTITIAL WATER MONITORING WELL LOCATION (BLUE SYMBOL)
- APPROXIMATE LOCATION OF OCEAN WATER SAMPLE (PINK SYMBOL)
- SOIL SAMPLE LOCATION (ORANGE SYMBOL)
- HIGHEST TOTAL TPH (C4-C40) CONCENTRATION IN mg/kg IN SOIL AND DEPTH (FEET BELOW GROUND SURFACE) (ORANGE TEXT)
- LIMIT OF SOIL CONTAINING TOTAL TPH (C4-C40) CONCENTRATIONS >100 mg/kg, DASHED WHERE INFERRED (GREEN SHADED AREA)

**NOTES:**

1. INTERSTITIAL WATER MONITORING WELL LOCATIONS SURVEYED BY WM SURVEYS INC., DATED MAY 2021.
2. AERIAL BASEMAP SOURCE: DRILTEK; IMAGE DATE APRIL 2021
3. TPH = TOTAL PETROLEUM HYDROCARBONS.
4. mg/kg = MILLIGRAMS PER KILOGRAM.

RI-OW=100421-2  
(SAMPLE COLLECTED APPROXIMATELY 20' NW)

GP-11  
(7,070/12')

GP-6  
(1,850/8')

GP-1  
(673/4')

MW-1  
(<50/10')

MW-2  
(131/5')

GP-10  
(<50/12')

GP-5  
(<50/12')

GP-2  
(<50/12')

GP-9  
(10/4')

MW-3  
(2,600/5')

GP-3  
(<50/12')

GP-18  
(157/8')

GP-17  
(290/8')

APPROXIMATE WELL BAY TEST PIT LOCATION

- WB-030321-3  
(2,710/2')
- WB-030521-4  
(10,460/4')
- WB-030321-1  
(4,150/3')
- WB-030321-2  
(15,570/2')

GP-7  
(361/16')

GP-8  
(21/4')

GP-14  
(10/4')

GP-4  
(<50/12')

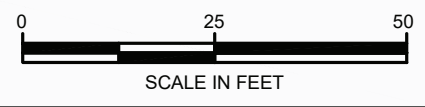
GP-16  
(<50/8')

GP-13  
(<49/16')

RI-OW=100421-1

(SAMPLE COLLECTED APPROXIMATELY 33'SE)

RI-OW=100421-3



**padre**  
associates, inc.  
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME:  
California State Lands Commission  
Rincon Island  
Decommissioning Project  
Ventura County, California

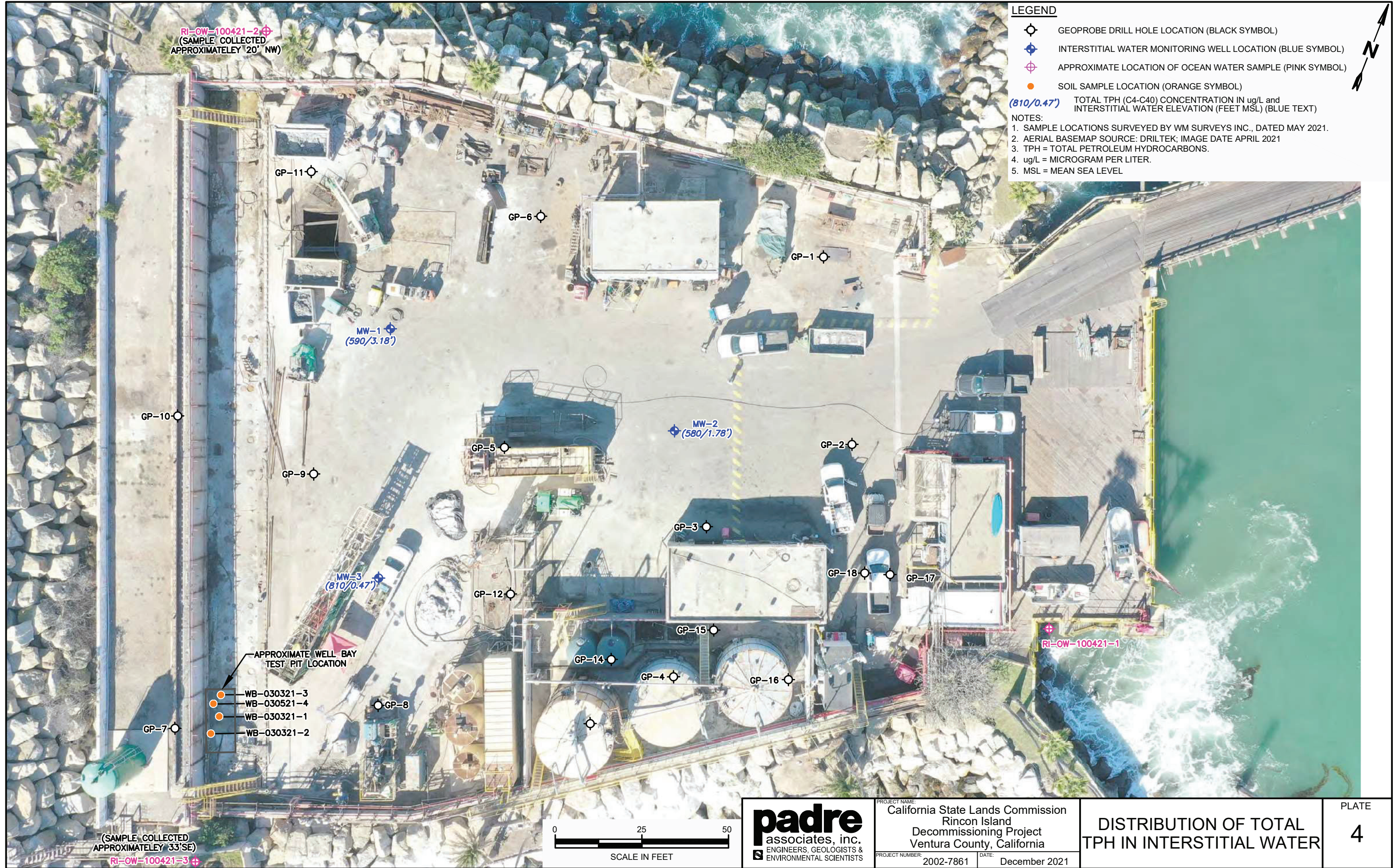
PROJECT NUMBER: 2002-7861      DATE: December 2021

DISTRIBUTION OF  
TOTAL TPH IN SOIL

PLATE  
3



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**LEGEND**

- ⊙ GEOPROBE DRILL HOLE LOCATION (BLACK SYMBOL)
- ◆ INTERSTITIAL WATER MONITORING WELL LOCATION (BLUE SYMBOL)
- ⊕ APPROXIMATE LOCATION OF OCEAN WATER SAMPLE (PINK SYMBOL)
- SOIL SAMPLE LOCATION (ORANGE SYMBOL)

(810/0.47') TOTAL TPH (C4-C40) CONCENTRATION IN ug/L and INTERSTITIAL WATER ELEVATION (FEET MSL) (BLUE TEXT)

- NOTES:
1. SAMPLE LOCATIONS SURVEYED BY WM SURVEYS INC., DATED MAY 2021.
  2. AERIAL BASEMAP SOURCE: DRILTEK; IMAGE DATE APRIL 2021
  3. TPH = TOTAL PETROLEUM HYDROCARBONS.
  4. ug/L = MICROGRAM PER LITER.
  5. MSL = MEAN SEA LEVEL

RI-OW=100421-2  
(SAMPLE COLLECTED  
APPROXIMATELY 20' NW)

GP-11

GP-6

GP-1

MW-1  
(590/3.18')

GP-10

MW-2  
(580/1.78')

GP-5

GP-2

GP-9

MW-3  
(810/0.47')

GP-3

GP-18

GP-17

APPROXIMATE WELL BAY  
TEST PIT LOCATION

GP-12

GP-15

RI-OW-100421-1

- WB-030321-3
- WB-030521-4
- WB-030321-1
- WB-030321-2

GP-7

GP-8

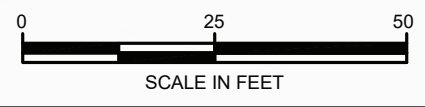
GP-14

GP-4

GP-16

(SAMPLE COLLECTED  
APPROXIMATELY 33'SE)

RI-OW=100421-3



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PROJECT NAME:  
California State Lands Commission  
Rincon Island  
Decommissioning Project  
Ventura County, California

PROJECT NUMBER: 2002-7861      DATE: December 2021

DISTRIBUTION OF TOTAL  
TPH IN INTERSTITIAL WATER

PLATE  
4



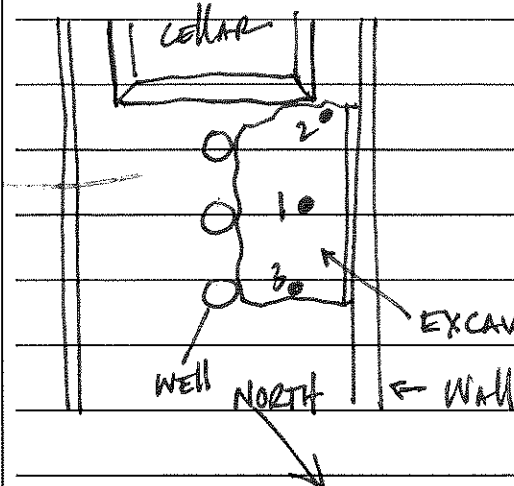
**APPENDIX A**  
**PROJECT DOCUMENTATION**

REPORT OF FIELD OBSERVATIONS

Job No.: 1802-2521 / 2002-7861	Date: 3/3/21	M	T	W	<u>T</u>	F	S	S	
Client: DRITTEK	Project: SOIL ASSESSMENT								
Location: RINCON ISLAND	Weather: OVERCAST: COOL: WINDY								
Observer: RMZ	Observation Period	Start:							Stop:

Description: 1:40pm PADRE (R. WILKOR & S. POULTER) ONSITE W/ DRITTEK. OBSERVED A SMALL EXCAVATION AT THE SOUTHERN END OF THE WELL BAY - NORTH OF THE SUMP PLT TO CONTAIN SANDY SOIL, WATER, AND PETROLEUM HYDROCARBONS. THE SOIL WAS STAINED GRAY TO BLACK WITH A MODERATE TO STRONG HYDROCARBON ODOR. THREE SOIL SAMPLES WERE COLLECTED.

WB. 030321. 1	3' DEEP	1409	633 PPM
WB. 030321. 2	2' DEEP	1415	1600 PPM
WB. 030321. 3	2' DEEP	1420	109 PPM



VOCs WERE MEASURED WITH A FIELD-PORTABLE PID. THE EXCAVATION AREA WAS SURVEYED WITH A HANDHELD TRIMBLE GPS.

3:00pm. SIGNED OUT. OFFSITE RMZ.

Mileage: \_\_\_\_\_ miles

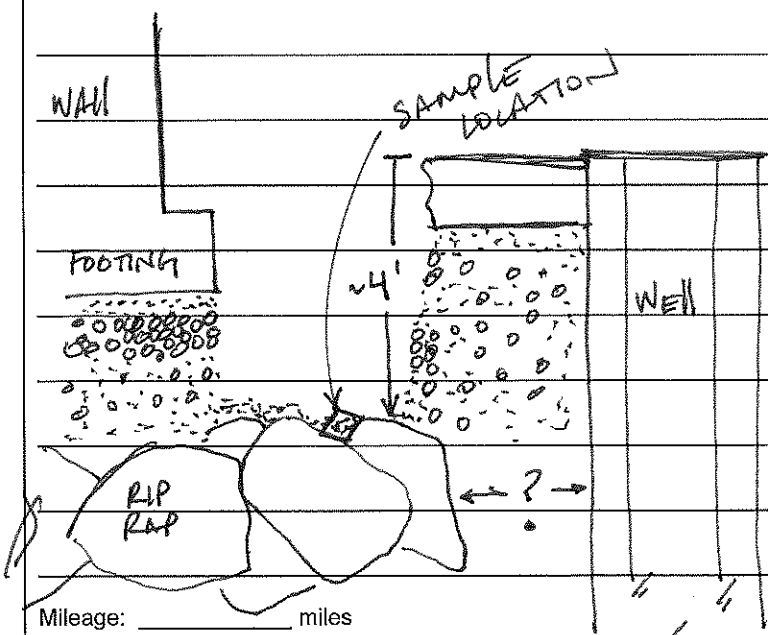
Copy Sent to Client: Y N      Continued on Next Page      Page \_\_\_\_\_ of \_\_\_\_\_



REPORT OF FIELD OBSERVATIONS

Job No.: 1802-2521 / 2002-7861	Date: 3/5/21	M	T	W	T	(F)	S	S
Client: DRIBTEK	Project: SOIL ASMT							
Location: RINCON ISL.	Weather: CLEAR: MILD							
Observer: MWZ	Observation Period	Start:	Stop:					

Description: 945 PADRE ONSITE. SIGNED IN. MET W/ ROBERT AND LANE TO DISCUSS THE PROJECT. OBSERVED AN EXPANDED EXCAVATION AREA W/IN THE WELL BAY. WB-030521.4 11:41AM 1530PPM 4' DEEP COLLECTED ONE SOIL SAMPLE FROM THE NORTH END OF THE EXCAVATION AREA AT AN APPROXIMATE DEPTH OF 4 FEET BELOW THE WELL BAY FLOOR. THE SOIL APPEARED DARK GRAY TO BLACK WITH PETROLEUM HYDROCARBON STAINING AND ODOR. THE SAMPLE WAS COLLECTED FROM WITHIN THE INTERSTITIAL SPACE OF THE RIP RAP.



INSPECTED THE AREAS AROUND THE WELL BAY WITH ROBERT. DISCUSSED PATH FORWARD OPTIONS WITH ROBERT AND LANE 12:45 PM OFF THE ISLAND OBSERVED PHOTOS AT ONSHORE OFFICE AND DISCUSSED WITH ROBERT. OFFSITE

Mileage: \_\_\_\_\_ miles

Copy Sent to Client: Y N

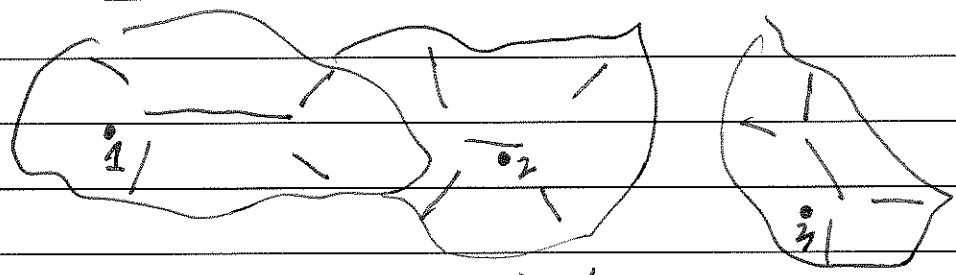
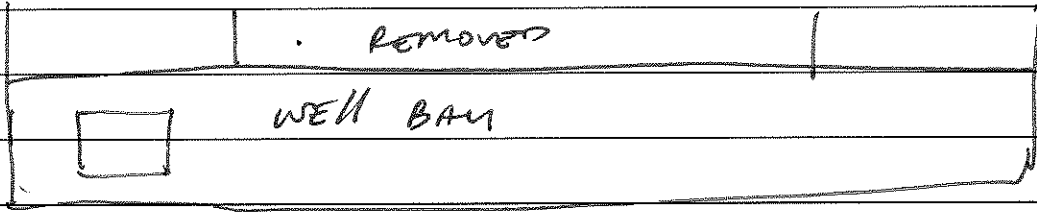
Continued on Next Page

1:30 Page \_\_\_\_\_ of \_\_\_\_\_

REPORT OF FIELD OBSERVATIONS

Job No.:	Date: 3/24/21	M	T	W	T	F	S	S	
Client: DAITER	Project: WELL BAY SOIL SAMPLING								
Location: RINCON ISLAND	Weather: CLEAR: MILD								
Observer: MMZ	Observation Period	Start:							Stop:

Description: H/S ONSITE TO COLLECT SOIL SAMPLES FROM SOIL REMOVED FROM BEHIND WELL BAY WALL THAT WILL BE USED FOR FILL W/IN WELL BAY.



- SP-032421.1 - 1702 0.0 SAND (SW) W/SILT ~~AND~~ GRAVEL ASPHALT
- SP-032421.2 - 1710 - 8.1 } DARK YELLOW BROWN, NO ODOOR OR STAIN
- SP-032421.3 1720 - 57 } SLIGHT HC ODOOR NO STAIN
- LIGHT GRAY. HC ODOOR

SAMPLES WILL BE RUN FOR TPH AND ONE SAMPLE WILL BE RUN FOR CAM 17 METALS.

1738 OFFSITE

Mileage: \_\_\_\_\_ miles

Copy Sent to Client: Y N      Continued on Next Page      Page \_\_\_\_\_ of \_\_\_\_\_

REPORT OF FIELD OBSERVATIONS



Job No.: 2002-7861	Date: 5.4.21	M	T	W	T	F	S	S
Client: CSLC	Project:							
Location: RINCON ISLAND	Weather: CLEAR: WARM							
Observer: RMZ	Observation Period	Start:	Stop:					

Description: 6:30AM. PADRE ONSITE AT MUSSEL SHOALS, MET W/ UTILITY LOCATOR → ENTERED ISLAND

7:20AM. PENHALL ONSITE → ENTERED ISLAND. SAW CUT 3 DRILL HOLE LOCATIONS

9:30AM S/G ONSITE → ENTERED ISLAND. COORDINATED WITH DRILTEK.

9:43AM: PENHALL OFFSITE

9:57AM: RIG UP - MW.1 DRILLED TO 23.5 FT.

11:29 AM. COMPLETED MW.1 TO 23 FT. WET SOI' BUT NOT SATURATED. TIDE LOW AT 11:55AM - 0.2 FT

11:34 MOVED TO MW.2 - DRILLED TO 23.5 FEET

13:23 COMPLETED MW.2 TO 23 FEET - SANDED AND HYDRATED BENTONITE

1403 RIGGED UP ON MW.3 DRILLED TO 23.5 FT

1543 COMPLETED WELL TO 23 FEET - SANDED AND HYDRATED BENTONITE

- WILL SET WELL HEADS TOMORROW.

1605. S/G PADRE OFF ISLAND.

Mileage: \_\_\_\_\_ miles

Copy Sent to Client: Y N      Continued on Next Page      Page \_\_\_\_\_ of \_\_\_\_\_

REPORT OF FIELD OBSERVATIONS

Job No.: 2002-7861	Date: 5/5/21	M	T	W	T	F	S	S	
Client: CSLC	Project: MONITORING WELL INSTALL								
Location: RINCON ISLAND	Weather: OVERCAST: COOL								
Observer: RMZ	Observation Period	Start:							Stop:

Description: 7:15 AM PADRE ON SITE. MET W/ LARRY. ONCE S/G ARRIVES WILL LOCK GATES AND TRAVERSE CAUSEWAY.

7:25 AM. S/G ARRIVES. LOCKED GATES - TRAVERSED CAUSEWAY - ON ISLAND SIGNED IN - GOT STARTED.

8:30 AM. REMOVED MW. 1 CASING. RECOVERED TAPE AND REPLACED BOTTOM CAP. REAMED HOLE AND RESET CASING.

9:30 AM. SET WELL BOXES.

11:30 AM. COMPLETED WELL BOXES. SET PUSH IN CONCRETE.

11:50 OFF ISLAND

Mileage: \_\_\_\_\_ miles

Copy Sent to Client: Y N      Continued on Next Page      Page \_\_\_\_\_ of \_\_\_\_\_



County of Ventura  
**WELL PERMIT**

800 South Victoria Avenue Ventura, CA 93009

	Property Owner	Driller	Registered Inspector
Name	California State Lands Commission	S/G TESTING LABORATORIES INC	Ryan Zukor
Address	100 Howe Avenue, Suite 100 South, Sacramento, CA 95825	308 NORTH 1ST STREET, LOMPOC, CA 93436	1861 Knoll drive, Ventura, CA 93003
Telephone	(916) 574-1310	(805) 735-3454	(805) 207-6577

Type of Work	Monitoring Well New (3)	Sealing Zone	1	Main Use	Monitoring	
SWN (Partial)	03N25W24A	Well ID	N/A	APN	N/A	
Fee	\$445.00	Receipt No.	668012	Prep by:	J Dorrington	
Well Location	Rincon Island	Proposed Construction	Well Depth	23 ft	Bore Dia.	8.25 in.
Basin	UNDEFINED		Perforations	From 8.00 ft. to 23.00 ft.		

**Conditions**

1. Permit issue and expiration dates are as follows:

Issue Date: 05/03/2021

Expiration Date: 11/03/2021

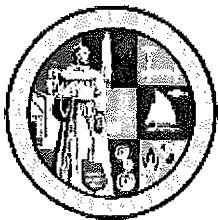
**The Contractor shall keep a copy of this approved permit at the work site.**

2. Well Owner and Driller ("Contractor") shall comply with all provisions of Ventura County Well Ordinance No. 4468, and all applicable State of California and local regulations pertaining to well construction, repair, modification and destruction.
3. Work shall be performed by a licensed water well contractor (C-57), who must also be registered with the Watershed Protection District, Groundwater Section ("District").
4. All work shall be inspected by a licensed Civil Engineer, Registered Geologist or Certified Engineering Geologist, who must also be registered with the Watershed Protection District, Groundwater Section ("District").
5. Contractor shall retain all drilling fluids and groundwater discharges within the drilling site, unless an NPDES permit has been obtained from the California Regional Water Quality Control Board, Los Angeles Region. The NPDES permit shall be obtained prior to drilling operations.
6. Sealing Requirements:
- a. Bentonite grout, bentonite clay chips, neat cement or cement grout annular sealing material shall be placed **from the top of the perforations to 2 feet below ground surface.**

Bentonite clay products used for sealing material must be specifically prepared for such use. Used drilling mud and/or cuttings from drilling shall not be used in sealing material. Bentonite chips shall be hydrated while placed and shall be placed by means of a grout pipe positioned within 2 feet of the base of the sealing zone. If the sealing depth is 10 feet or less bentonite chips may be placed by free-fall method.

All bentonite grout and cement sealing material shall be placed by means of a grout pipe positioned within 2 feet of the base of the sealing zone. For Sealing Zones 1 and 2, if the standing water level in the casing is below the base of the sealing zone and the sealing depth is 25 feet or less, a grout pipe will not be necessary.

- b. Diameter of the well bore shall be a minimum of 4 inches larger than the outside diameter of the casing for the full depth of



County of Ventura  
**WELL PERMIT**

800 South Victoria Avenue Ventura, CA 93009

seal.

- c. Neat cement or cement grout annular sealing material shall be placed from a depth of 2 feet to ground surface.

7. Post Requirements:

a. Inspection Documents: Within 30 days after work is completed, Registered Inspector shall submit inspection documents consisting of a Registered Inspector's Well Sealing Report, a well location map, and a detailed well log for each monitoring well. The well log shall show lithology, well construction details, and any available information relating to water quality and quantity. Mail to County of Ventura Public Works - Watershed Protection, Groundwater Section ("District"); (Re: MW Documents); 800 South Victoria Avenue; Ventura, Ca. 93009-1600. Failure to submit documents within 30 days will preclude Property Owner and Registered Inspector from obtaining future permits until report is received and may result in the issuance of a Notice of Non-Compliance.

b. Monitoring Well Destruction: Upon completion of the monitoring program, Property Owner shall take immediate action to obtain a separate well destruction permit and destroy all monitoring wells on this permit.

8. The information contained in the Application for Well Permit becomes a part of this permit.

Manager, Groundwater Section

Date

5/3/2021

# REGISTERED INSPECTOR'S WATER WELL SEALING RECORD

PERMIT # GWP-08541

START DATE 5 / 3 / 21  
EXPIRATION DATE 11 / 3 / 21

NEW WELL  DESTRUCTION  OTHER \_\_\_\_\_ TYPE \_\_\_\_\_  
OF MATERIAL USED SCH 40 PVC, NO. 3 SAND, BENTONITE CHIPS, CONCRETE

WELL #	DELIVERED TO SITE Cu. Yd.	LEFT OVER Cu. Yd.	USED FOR SEALING Cu. Yd.	BOREHOLE Diameter (NEW WELLS)	WELL CASING Diameter	DEPTH OF SEAL	
						FROM	TO
<input type="checkbox"/> MW-1 <input type="checkbox"/> MIX ON SITE	0.078	0	0.078	8.25	2-INCH	7 TO 1 FT	
<input type="checkbox"/> MW-2 <input type="checkbox"/> MIX ON SITE	0.078	0	0.078	8.25	2-INCH	7 TO 1 FT	
<input type="checkbox"/> MW-3 <input type="checkbox"/> MIX ON SITE	0.078	0	0.078	8.25	2-INCH	7 TO 1 FT	

METHOD OF SEALING PLACEMENT:  GROUT PIPE  DROP  OTHER \_\_\_\_\_  
NUMBER OF GROUT PIPE SECTIONS \_\_\_\_\_ LENGTH OF EACH SECTION \_\_\_\_\_ FEET

<p><b>(DESTRUCTION ONLY)</b></p> <p>CONFIRMATION THAT THE CASING WAS RIPPED OR PREFORATED AS REQUIRED BY THE PERMIT.</p> <hr/> <hr/> <hr/>
--

**REMARKS:**  
CONSTRUCTED THREE GROUNDWATER MONITORING WELLS WITH 2-INCH DIAMETER SCH. 40 FLUSH THREAD PVC CASING TO 23 FEET BGS USING 15- FEET OF 0.020-INCH SLOT SCREEN CASING AND ~8 FEET OF BLANK CASING. NO.2 SAND PLACED 1-FOOT ABOVE SCREEN, HYDRATED BENTONITE CHIPS PLACED TO WITHIN 1-FOOT OF SURFACE, AND SURFACE WAS COMPLETED WITH TRAFFIC VAULT SET IN CONCRETE.  
 DESCRIBE ANY VARIANCE IN THE SEALING METHOD OR MATERIAL FROM PERMIT CONDITIONS, OR ANY OTHER FACTORS WHICH, IN YOUR ESTIMATION, MIGHT HAVE CAUSED THE SEALING OPERATION TO BE LESS THAN SATISFACTORY NONE

**IN MY OPINION, THE WELL SEALING WAS:**

- SATISFACTORY  
 UNSATISFACTORY FOR REASONS DESCRIBED ABOVE

INSPECTION SERVICES  
START 5/4/21  
COMPLETED 5/4/21

**OPTION:**

- ATTACHED PHOTO OF SITE AND IMMEDIATE VICINITY  
 ATTACHED CEMENT TRUCK REPORT  
 OTHER \_\_\_\_\_

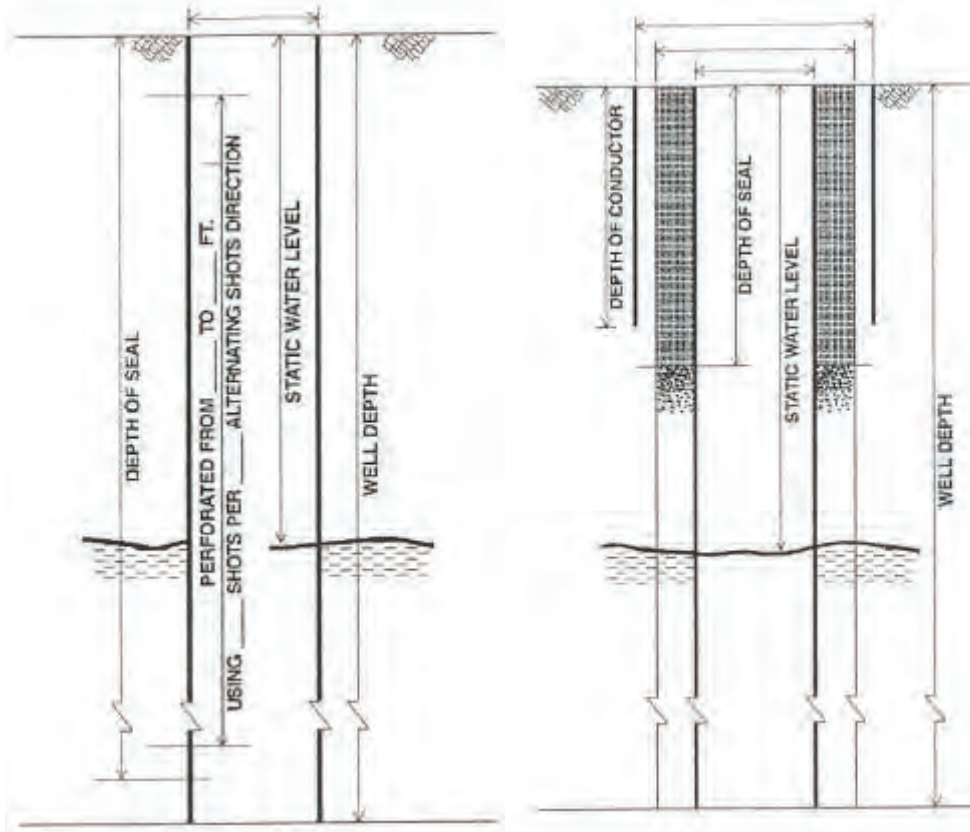
DATE SEALED: 5 / 4 / 21 **Ryan M. Zukor** Digitally signed by Ryan M. Zukor  
 \_\_\_\_\_ INSPECTOR \_\_\_\_\_ DATE Date: 2021.06.03 06:18:47 -07'00'

# INSPECTION NOTES

PERMIT # GWP-08541

DESTRUCTION

NEW WELL



QUANTITIES OF

WATER    CEMENT    BENTONITE    SAND    GRAVEL    CLAY

NEAT CEMENT (CEMENT SLURRY): CEMENT + WATER

—            —            —            -----    -----    -----

CEMENT GROUT: CEMENT + WATER + SAND

—            —            —            —            -----    -----

CONCRETE: CEMENT + WATER + SAND + GRAVEL

—            —            —            —            —            -----

CLAY PELLETS: SOMETIMES USED AS A SEAL BETWEEN GRAVEL SURROUNDING PERFORATIONS AND CONCRETE SEAL IN SHALLOW (MONITORING) WELLS

10 GAL    1.25 CF    2.1 CF    3.2 CF    --    --

Additional Notes: QUANTITIES PROVIDED PER WELL.  
 TOTAL QUANTITIES INCLUDE:  
 30 GAL. WATER  
 3.75 CF CEMENT  
 6.3 CF BENTONITE CHIPS (HYDRATED)  
 9.6 CF NO. 3 SAND





BASEMAP SOURCE :DRILTEK; IMAGE DATE APRIL 2021

**LEGEND**

	GEOPROBE DRILL HOLE LOCATION
	GROUNDWATER MONITORING LOCATION



**padre**  
associates, inc.  
ENGINEERS, GEOLOGISTS &  
ENVIRONMENTAL SCIENTISTS

PROJECT NAME: California State Lands Commission Rincon Island Decommissioning Project Ventura County, California	
PROJECT NUMBER: 2002-7861	DATE: May 2021

**SITE PLAN SHOWING  
DRILL HOLE LOCATIONS**

PLATE  
**2**

Z:\Current Projects\0000-0000 CAD MASTER DRAWINGS\PADRE VENTURA\Driltek Rincon Island Decommissioning Project\Rincon Island Decommissioning Project.dwg, 5/26/2021 12:59:22 PM







NORTH 800-642-2444  
SOUTH 800-422-4133

CALL 8-1-1 TOLL FREE  
2 workings days before you dig



DigAlert No. A211180785

**LOCATION REQUEST FORM**

*For faster service, prior to calling fill out all non-italicized fields*

Date: 4/28/21 Time: 120 PM Operator: \_\_\_\_\_  
Company Phone #: 805 644 2220 Caller: RYAN ZUKOR  
Company Name: PADRE ASSOCIATES, INC.  
Address: 1861 KNOLL DRIVE  
City: VENTURA State: CA Zip: 93003  
Fax: 805 644 2050 E-mail: \_\_\_\_\_  
Best hours to reach your company: 7:00 am TO 7:00 pm  
Foreman: RYAN ZUKOR Foreman's pager/cellular #: 805 207 6577

Delineated:  Yes  No S/G DRILLING  
County: VENTURA City: MUSSEL SHOALS / VENTURA

If more than 1 address or descriptive location:  
34. 847583 - 119.445313  
0.5 MILE SOUTHWEST 3261 FT SW  
OCEAN AVE. & BREAKERS WAY

Address: \_\_\_\_\_ Street: \_\_\_\_\_  
Closest X/ST: \_\_\_\_\_  
Thomas Guide page & grid: \_\_\_\_\_

Boring:  Yes  No Explosives:  Yes  No Vacuum:  Yes  No  
Type of work: ENVIRONMENTAL DRILLING SAMPLING  
Work to begin: Date: 5/4/21 Time: \_\_\_\_\_

Instructions:  Mark By  Meet & Mark  Validate Permit Only  Now  
Work being done for: CSLC / PADRE / S/G DRILLING

Permit #: \_\_\_\_\_  Not required  Not Available  Blanket

Members being notified by USA: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Update on/or before date: MAY 26th.

**From:** [noreply@digalert.org](mailto:noreply@digalert.org)  
**To:** [Ryan Zukor](#)  
**Subject:** DigAlert Confirmation for Ticket A211180785-00A  
**Date:** Wednesday, April 28, 2021 1:38:54 PM

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EMLCFM 04358A USAS 04/28/21 13:38:50 A211180785-00A NEW NORM POLY LREQ

Thank you for contacting Underground Service Alert of Southern California.  
This is an automatically generated confirmation of your DigAlert.

For your safety please excavate carefully around the marked utility lines.

For more information regarding DigAlert's web portals, mobile apps and text messaging, please visit [www.digalert.org](http://www.digalert.org) or text Services to DIGALT (344258).

This email comes from an automated program that is NOT MONITORED.  
DO NOT REPLY TO THIS EMAIL.

This is not a certified copy of the ticket.

Ticket: A211180785 Rev: 00A Created: 04/28/21 13:38 User: ZIM Chan: 100

Work Start: 05/04/21 07:00 Legal Start: 05/04/21 07:00 Expires: 05/26/21 23:59

Response required: Y Priority: 2

Excavator Information

Company: S-G DRILLING

Co Addr: 308 N 1ST ST

City : LOMPOC

State: CA Zip: 93436

Created By: RYAN ZUKOR - PADRE ASSOC'S Language: ENGLISH

Office Phone: 805-644-2220

SMS/Cell: 805-207-6577

Office Email: RZUKOR@PADREINC.COM

Site Contact: RYAN ZUKOR

Site Phone: 805-207-6577

Site SMS/Cell:

Site Email:

Excavation Area

State: CA County: VENTURA

Place: PACIFIC OCEAN

Zip:

Location: Address/Street: OCEAN AVE

: X/ST1: BREAKERS WAY

:

: ON RICHFIELD/RINCON ISLAND LOC APPROX 3261FT S/W OF INTER/OFF OCEAN

AVE

: AND BREAKERS WAY

Delineated Method: WHITEPAINT

Work Type: ENVIRONMENTAL DRILLING & SAMPLING (3)

Work For : PADRE ASSOCIATES

Permit:

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 34.348063/-119.445732 34.347904/-119.444764

: 34.347260/-119.445864 34.347101/-119.444896

Excavator Provided: 34.347583/-119.445313

Map link:

[https://newtin.digalert.org/newtinweb/map\\_tkt.nap?TRG=AF5zzyu6nBszuu1-m](https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=AF5zzyu6nBszuu1-m)

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE ATT DAMAGE PREVENTION HO 510-645-2929

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## GROUNDWATER SAMPLE LOG

Client Name:	CSLC	Date:	5/13/21
Project Name:	Rincon Island Decommissioning	Project No.	2002-7861
Well I.D.:	MW.3	Sample I.D.:	MW.3
Well Depth:	23.0	Time Sampled:	955
Well Casing Diameter:	2" 14"	Column in Casing:	8.39 (ft)
Depth to Groundwater:	14.61	Unit Casing Volume:	0.16 / 0.65 (gal/ft)
Weather Conditions:	OVERCAST: COOL	Casing Water Volume:	1.34 (gal)
Observations/Comments (e.g., duplicate sample collected, well condition):	TIDE: 0.71 FT 7:19 AM x 3 = 4.03		
<b>QUALITY ASSURANCE</b>	Water Sample Collection Method:	PE DISPOSABLE BAILER and TWINE	
	Water Level Measurement Method:	SOUNDER / INTERFACE PROBE	
Pump Lines / Bailer Ropes:	DEDICATED 1/4 PE TUBING		
Method of Cleaning Bailer / Pump:	ALCONOX SOAP AND TAP RINSE TIMES 2		
Method of Purging Water:	SUBMERSIBLE PUMP / HAND BAIL		
Multi-Parameter METER:	YSI 556 MPS	Calibrated:	5/12/21
Turbidity Meter:	LaMotte 2020 we	Calibrated:	5/13/21

Date	Time	Discharge (gallons)	Temp (°C)	pH	Sp. Cond. (mS/cm)	COLOR	HC Sheen Y/N	D.O. (mg/L)	ORP (mV)	Turbidity NTU
5/13/21	755	3	PURGED DRY WITH HAND BAILER							
	858	1	19.12	7.19	33.86	TURBID	NO	0.47	133.6	-22 NTU
	859	2	20.12	7.17	31.92	"	"	0.43	127.5	-20 NTU
	900	3	20.09	7.14	30.43	"	"	0.42	125.8	-22 NTU
	901	4	20.20	7.09	32.47	"	"	0.40	126.1	-21 NTU

FREE PRODUCT  THICKNESS (FT) — OIL/GAS —  
 DEPTH TO WATER - END OF PURGE: 14.25 DTW SAMPLE COLLECTION ~~14.45~~ 12.73

Gallons Discharged: 4 Discharge Time: 3 MIN Total Casing Volumes Removed: 3+

Method of Disposal of Discharged Water:	Onsite
Sample Containers Filled:	4 VOAs 1 Amber 1 Poly
Water Sample Description (e.g., color, turbidity):	Turbid
Data Collected by:	Padre (RMZ & WJS)
Analytical Laboratory:	OEC LABS

## GROUNDWATER SAMPLE LOG

Client Name:	CSLC	Date:	5/13/21
Project Name:	Rincon Island Decommissioning	Project No.:	2002-7861
Well I.D.:	MW-1	Sample I.D.:	MW-1
Well Depth:	22.87	Time Sampled:	935
Well Casing Diameter:	2" / 4"	Column in Casing:	10.91 (ft)
Depth to Groundwater:	11.96	Unit Casing Volume:	0.16 / 0.65 (gal/ft)
Weather Conditions:	OVERCAST: COOL	Casing Water Volume:	1.75 (gal)
Observations/Comments (e.g., duplicate sample collected, well condition):	TIDE: 0.68 FT 7:16 AM DUPLICATE SAMPLE COLLECTED.		
<b>QUALITY ASSURANCE</b>	Water Sample Collection Method:	PE DISPOSABLE BAILER and TWINE	
	Water Level Measurement Method:	SOUNDER / INTERFACE PROBE	
Pump Lines / Bailer Ropes:	DEDICATED 1/4 PE TUBING		
Method of Cleaning Bailer / Pump:	ALCONOX SOAP AND TAP RINSE TIMES 2		
Method of Purging Water:	SUBMERSIBLE PUMP / HAND BML		
Multi-Parameter METER:	YSI 556 MPS	Calibrated:	5/12/21
Turbidity Meter:	LaMotte 2020 we	Calibrated:	5/13/21

Date	Time	Discharge (gallons)	Temp (°C)	pH	Sp. Cond. (mS/cm)	COLOR	HC Sheen Y/N	D.O. (mg/L)	ORP (mV)	Turbidity NTU
5/13/21	745	3	PURGED DRY WITH HAND BAILER							
	837	1	19.02	7.03	21.14	TURBID	N	9.0	163.2	-22 NTU
	838	2	20.82	6.99	24.45	"	"	6.9	151.2	-13 NTU
	847	3	19.34	7.17	24.21	"	N	0.41	144.3	-21 NTU

FREE PRODUCT	<input checked="" type="checkbox"/>	THICKNESS (FT)	—	OIL/GAS	—
DEPTH TO WATER - END OF PURGE:	19.24	DTW SAMPLE COLLECTION	15.71		

Gallons Discharged:	3	Discharge Time:	10	Total Casing Volumes Removed:	3
---------------------	---	-----------------	----	-------------------------------	---

Method of Disposal of Discharged Water:	ONSITE
Sample Containers Filled:	4 VOA 1 AMBER 1 PLASTIC
Water Sample Description (e.g., color, turbidity):	TURBID
Data Collected by:	Padre (RMZ & WJS)
Analytical Laboratory:	OEC LABS

## GROUNDWATER SAMPLE LOG

Client Name:	CSLC	Date:	5/13/21
Project Name:	Rincon Island Decommissioning	Project No.:	2002-7861
Well I.D.:	MW.2	Sample I.D.:	MW.2
Well Depth:	23.15	Time Sampled:	9:15
Well Casing Diameter:	2" 1/4"	Column in Casing:	9.79 (ft)
Depth to Groundwater:	13.36	Unit Casing Volume:	0.16 (gal/ft)
Weather Conditions:	OVERCAST: COOL	Casing Water Volume:	1.57 (gal)
Observations/Comments (e.g., duplicate sample collected, well condition):	TIDE: 0.65 FT 7:13 AM x 3 = 4.7		
<b>QUALITY ASSURANCE</b>	Water Sample Collection Method:	PE DISPOSABLE BAILER and TWINE	
	Water Level Measurement Method:	SOUNDER / INTERFACE PROBE	
Pump Lines / Bailer Ropes:	DEDICATED 1/4 PE TUBING		
Method of Cleaning Bailer / Pump:	ALCONOX SOAP AND TAP RINSE TIMES 2		
Method of Purging Water:	SUBMERSIBLE PUMP / HAND BAIL		
Multi-Parameter METER:	YSI 556 MPS	Calibrated:	5/12/21
Turbidity Meter:	LaMotte 2020 we	Calibrated:	5/13/21

Date	Time	Discharge (gallons)	Temp (°C)	pH	Sp. Cond. (mS/cm)	COLOR	HC Sheen Y/N	D.O. (mg/L)	ORP (mV)	Turbidity NTU
5/13/21	7:30	4	PURGED DRY W/ HAND BAILER							
	8:13	1	19.91	6.36	8.725	TURBID	N	0.91	125.4	-22 NTU
	8:19	2	19.47	6.58	8.801	"	N	0.77	143.1	-21 NTU
	8:25	3	19.25	6.86	8.821	"	N	0.62	160.8	-21 NTU

FREE PRODUCT <input checked="" type="checkbox"/> Y/N	THICKNESS (FT) —	OIL/GAS —
DEPTH TO WATER - END OF PURGE: 19.38		DTW SAMPLE COLLECTION 14:45

Gallons Discharged: 3	Discharge Time: 12 min	Total Casing Volumes Removed: 3
-----------------------	------------------------	---------------------------------

Method of Disposal of Discharged Water:	ONSITE
Sample Containers Filled:	1 Amber, 4 VOAs, 1 Poly
Water Sample Description (e.g., color, turbidity):	<del>Clear</del> Cloudy, Turbid
Data Collected by:	Padre (RMZ & WJS)
Analytical Laboratory:	OEC LABS

NORTH 800-642-2444  
SOUTH 800-422-4133

CALL 8-1-1 TOLL FREE  
2 workings days before you dig



DigAlert No. A212721015

### LOCATION REQUEST FORM

For faster service, prior to calling fill out all non-italicized fields

Date: 9/29/21 Time: 3:45 PM Operator: \_\_\_\_\_  
Company Phone #: 805 644 2220 Caller: Ryan Wilcox  
Company Name: PADRE ASSOCIATES, INC.  
Address: 1861 KNOLL DRIVE  
City: VENTURA State: CA Zip: 93003  
Fax: 805 644 2050 E-mail: \_\_\_\_\_  
Best hours to reach your company: 7:00 am TO 7:00 pm  
Foreman: Ryan Wilcox Foreman's pager/cellular #: 805 207 6577

Delineated:  Yes  No

County: VENTURA City: MUSSEL SHOALS  
If more than 1 address or descriptive location:  
0.60 MILES SOUTHWEST OF OCEAN AVE  
& BREAKERS WAY.

Address: \_\_\_\_\_ Street: 34.347408  
Closest X/ST: \_\_\_\_\_ -119.445110  
Thomas Guide page & grid: \_\_\_\_\_

Boring:  Yes  No Explosives:  Yes  No Vacuum:  Yes  No  
Type of work: ENVIRONMENTAL SOIL SAMPLING  
Work to begin: Date: 10/4/21 Time: 8:00 AM

Instructions:  Mark By  Meet & Mark  Validate Permit Only  Now

Work being done for: \_\_\_\_\_

Permit #: \_\_\_\_\_  Not required  Not Available  Blanket

Members being notified by USA: AT MLI  
\_\_\_\_\_  
\_\_\_\_\_

Update on/or before date: \_\_\_\_\_



**From:** [noreply@digalert.org](mailto:noreply@digalert.org)  
**To:** [Ryan Zukor](#)  
**Subject:** DigAlert Confirmation for Ticket A212721015-00A  
**Date:** Wednesday, September 29, 2021 3:55:34 PM

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EMLCFM 03957A USAS 09/29/21 15:55:28 A212721015-00A NEW NORM POLY LREQ

Thank you for contacting Underground Service Alert of Southern California.  
This is an automatically generated confirmation of your DigAlert.

For your safety please excavate carefully around the marked utility lines.

For more information regarding DigAlert's web portals, mobile apps and text messaging, please visit [www.digalert.org](http://www.digalert.org) or text Services to DIGALT (344258).

This email comes from an automated program that is NOT MONITORED.  
DO NOT REPLY TO THIS EMAIL.

This is not a certified copy of the ticket.

Ticket: A212721015 Rev: 00A Created: 09/29/21 15:55 User: BRF Chan: 100

Work Start: 10/04/21 08:00 Legal Start: 10/04/21 08:00 Expires: 10/27/21 23:59

Response required: Y Priority: 2

Excavator Information

Company: STRONGARM ENVIRONMENTAL  
Co Addr: 740 WILLIAMSON AVE  
City : FULLERTON State: CA Zip: 92832  
Created By: RYAN ZUKOR-PADRE ASSOCIATES Language: ENGLISH  
Office Phone: 805-644-2220 SMS/Cell: 805-207-6577  
Office Email: RZUKOR@PADREINC.COM

Site Contact: RYAN ZUKOR  
Site Phone: 805-207-6577 Site SMS/Cell:  
Site Email:

Excavation Area

State: CA County: VENTURA Place: PACIFIC OCEAN  
Zip:

Location: Address/Street: RICHFIELD PIER  
: X/ST1: OCEAN AVE  
:  
: APPROX 160FT S/W OF THE S/END OF RICHFIELD PIER AT RINCON ISLAND  
: \*\*S/END OF RICHFIELD PIER IS LOC APPROX 2775FT S/OF OCEAN AVE\*\*  
: \*\*DIRECT NOTIFY MCISOCAL\*\*

Delineated Method: WHITEPAINT

Work Type: BORING FOR SOIL SAMPLING (ENVIRONMENTAL) (1)

Work For : PADRE ASSOCIATES

Permit: Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 34.347808/-119.445553 34.347967/-119.444585  
: 34.347005/-119.445421 34.347164/-119.444453

Excavator Provided: 34.347487/-119.445002

Map link:

[https://newtin.digalert.org/newtinweb/map\\_tkt.nap?TRG=06u5t4yywwwzqyz-o](https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=06u5t4yywwwzqyz-o)

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE ATT DAMAGE PREVENTION HO 510-645-2929

MCISOCAL MCI (VERIZON BUSINESS) FIBER

FIBER SECURITY DEPT 800-624-9675

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REPORT OF FIELD OBSERVATIONS



Job No.: 2002-7861	Date: 10.4.21	(M) T W T F S S
Client: CSLC	Project: SITE ASSESSMENT	
Location: RINCON ISLAND	Weather: CLEAR: WARM	
Observer: RMZ	Observation Period	Start: Stop:

Description: 8:00 PADRE & STRONGARM ONSITE SET UP.

- STARTED CONCRETE CORING.

8:27 START GP.12

- GP.15 - CONCRETE > 1 FT THICK STEPPED OUT TO THE SOUTH
- GP.16 - REFUSAL < 4 FT - STEPPED OUT TO THE NORTHEAST, THEN REFUSAL AT 3 FT
- ADDED GP.17 EAST SIDE OF BUILDING, REFUSAL AT 3 FT AND GP.18 - REFUSAL AT 3 FT.

11:22 STRONGARM ESCORTED OFFSITE BY LARRY.

1142 - SURVEYED DRILL HOLE LOCATIONS W/ TRIMBLE GPS.

- OW.100421.1 - EAST SIDE FROM WHARF. 1309
- OW.100421.2 - 1329. NORTHSIDE ADJ. TO WELL BAY.
- OW.100421.3 - 1407. SOUTHSIDE ADJ. TO WELL BAY.

1446. COMPLETED OCEAN WATER SAMPLING.

1458. ESCORTED OFF ISLAND BY LARRY.

Mileage: \_\_\_\_\_ miles *RMZ*

Copy Sent to Client: Y N      Continued on Next Page      Page \_\_\_\_\_ of \_\_\_\_\_

**APPENDIX B**  
**DRILL HOLE LOGS**  
***(COPIES ARE AVAILABLE UPON REQUEST)***

**APPENDIX C**  
**LABORATORY ANALYTICAL REPORTS**  
***(COPIES ARE AVAILABLE UPON REQUEST)***