REMEDIAL SYSTEM OPTIMIZATION PERMEABLE REACTIVE BARRIER

DRAFT INTERIM REMEDIAL MEASURE WORK PLAN Dzus Fastener Company, Inc., West Islip, New York

PREPARED FOR:



Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMNETAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION 625 Broadway, 12th Floor Albany, New York 12233-7012

PREPARED BY:

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28 May 2025

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May 2025 EA Project No. 16025.15

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LIST OF ACRONYMS AND ABBREVIATIONS

Apatite	Apatite II
AWQS	Ambient water quality standard
bgs	Below ground surface
Dzus	Dzus Fastener Company, Inc.
EA	EA Engineering and Geology, P.C.
EPA	U.S. Environmental Protection Agency
HPT	Hydraulic profiling tool
HRT	Hydraulic residence time
IRM	Interim remedial measure
ISB	In situ boring
ISS	In situ stabilization/solidification
Κ	Hydraulic conductivity
LMS	Lawler, Matusky & Skelly Engineers LLP
NAVD	North American Vertical Datum 1988
n _e	Effective porosity
No.	Number
NYSDEC	New York State Department of Environmental Conservation
μg/L	Microgram(s) per liter
mV	Millivolt(s)
ORP	Oxidation-reduction potential
OU	Operable unit
PDI	Pre-Design Investigation
PRB	Permeable reactive barrier
PRIMA	PRIMA Environmental
PVC	Polyvinyl chloride
RA	Remedial action
V	Seepage velocity

1. INTRODUCTION

1.1 OVERVIEW

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering and Geology, P.C. (EA) with site management activities at the Dzus Fastener Company, Inc. (Dzus) Site (Site Number [No.] 152033), West Islip, New York, hereby referred to as the "site." A dissolved cadmium groundwater plume associated with Dzus contaminated sediment and surface water in Willetts Creek and Lake Capri. A remedial action (RA) removing contaminated sediment from Willetts Creek and Lake Capri was completed in 2020. Post-RA sampling of the surface water and sediment in Willetts Creek detected cadmium concentrations in the recently restored creek bed indicating that a continuing source of cadmium was present. The elevated levels of cadmium in sediment triggered a remedial system optimization with the main objective of updating the conceptual site model by delineating the groundwater plume and developing a better understanding of how groundwater communicates with Willetts Creek.

While this remedial system optimization is underway, EA was directed by NYSDEC to proceed with a groundwater Interim Remedial Measure (IRM) intended to address the ongoing discharge of cadmium into Willetts Creek. This report focuses on the IRM and will present the objectives, assumptions, and design parameters necessary to develop an effective interim remedy.

1.2 PROJECT OBJECTIVE

This report was prepared to support an IRM to address impacts of the dissolved cadmium groundwater plume on Willetts Creek. Groundwater is understood to communicate with Willetts Creek; therefore, the dissolved cadmium groundwater plume originating from the Dzus site is a source for cadmium contamination identified in surface water and sediment. It was determined that a permeable reactive barrier (PRB) adjacent to locations of highest cadmium detections in sediment would be the most appropriate approach to addressing cadmium mass discharge from groundwater into surface water and sediment. The PRB will be constructed in two phases to complete the full proposed length: Phase 1 will use approximately 20 metric tons of Apatite II (Apatite) to complete a 150 foot long barrier to address the highest dissolved cadmium concentrations observed in groundwater during the recent investigations (concentrations ranging from approximately 100 micrograms per liter $[\mu g/L]$ to 600 $\mu g/L$). Phase 2 will use approximately 20 metric tons of Apatite to extend the PRB approximately 50 feet on the northern extent and approximately 100 feet on the southern extent to provide additional armoring to Willetts Creek. The design is informed by ongoing Pre-Design Investigations (PDIs) to delineate groundwater impacts (EA 2024), bench-scale testing (column study) to evaluate effectiveness of the selected remedial technology, and published articles.

1.3 SITE LOCATION

The former Dzus facility is located at 425 Union Boulevard, West Islip, New York, and is identified as P.O. Lots 2-8 and 101, 9 and 10, Block A on the Map of Babylon developed by the Long Island Seashore Co., Inc., filed 5 April 1921, File No. 92 in the Office of the County Clerk, Suffolk County. Operable Unit (OU) 1, referred to as the on-site portion of the site, is a triangularly-shaped area approximately 1-acre in size. OU1 is in a mixed industrial, commercial,

and residential area. The on-site portion is bounded by Long Island Railroad tracks to the north, Union Boulevard to the south, Willetts Creek to the east, and was previously bounded by the former Dzus (renamed DFCI Solutions, Inc. in 2001) facility to the west (**Figure 1**). The buildings associated with the former facility were demolished in 2019. The Owner of the Site parcel at the time of issuance of the Site Management Plan is Robert Monahan, c/o Island Associates, 444 Route 111, Smithtown, New York, 11487. The off-site portions of the site consist of OU2, OU3, OU4, and OU5.

1.4 SITE HISTORY

Dzus produced fasteners and springs beginning in 1932. The facility changed its name from Dzus Fastener Company, Inc. to DFCI Solutions, Inc. in 2001, but operations did not change. In 2015, DFCI Solutions, Inc. ceased operations and moved all equipment out of the facility. The former facility buildings were demolished in 2019, and the property has recently undergone redevelopment.

Leaching pools at the facility were used for the disposal of hazardous waste that consisted of wastes from metal plating, tumbling, electroplating, chromic acid, anodizing, and special finishing operations that included oils, heavy metals, volatile organic compounds, and salts. Environmental releases of contamination from facility operations were originally identified in 1982, and a preliminary site assessment was completed in 1984. A Phase I Investigation was completed by NYSDEC in 1984, and a Phase II Investigation report was submitted by Dzus in August 1990. An IRM was completed by Dzus in Spring 1991, during which approximately 1,960 cubic yards of contaminated soil from the industrial leach field area was removed.

Under the State Superfund Program, NYSDEC initiated a remedial investigation/feasibility study in May 1992 to determine the nature and extent of contamination attributable to the Site and develop an appropriate remedy (Lawler, Matusky & Skelly Engineers LLP [LMS] 1994). During remedial investigation activities, several areas with cadmium contamination were identified. While the 1991 IRM removed contaminated soil, the remedial investigation found some remaining soil to be contaminated with cadmium, trivalent chromium, and cyanide. Groundwater also contained concentrations of cadmium, chromium, cyanide, and volatile organic compounds (primarily trichloroethene, tetrachloroethene, and 1,1,1-trichloroethane) above NYSDEC standards. Additionally, surface water and sediment samples collected downgradient of the source area contained cadmium at concentrations greater than their respective NYSDEC standards or guidance. A list of relevant site remedial history is provided below, while a more detailed summary of the work completed at the site to date is included in the Site Management Plan (EA 2023b).

- OU1 (Source Area)
 - An IRM conducted in 1991 removed a leach pool in the eastern portion of the site.
 - The remedy selected in the March 1995 Record of Decision for OU1 was in situ stabilization/solidification (ISS) for on-site soil that was contaminated with cadmium

at concentrations greater than 10 parts per million. The ISS remedy was completed in December 1996.

- A topsoil/asphalt cover was implemented in 1997 at the eastern portion of the site to protect the ISS treatment cells from erosion. This cap was removed in 2021 as part of site redevelopment and was temporarily replaced with a geomembrane material in October 2022 before an asphalt cover was placed in December 2023.
- OU2, OU3, and OU4 (Willetts Creek and Lake Capri)
 - The October 1997 Record of Decision for OU2 required the removal of contaminated sediments from Lake Capri and Willetts Creek as well as the use of erosion controls to protect the creek from further contamination caused by erosion.
 - Bank soil exceeding Unrestricted Use Soil Cleanup Objectives for cadmium and chromium were removed from Willetts Creek in 2019.
 - Sediments above Class A Sediment Guidance Values were removed in 2019 from Willetts Creek and Lake Capri, and Willetts Creek was restored to a stable riparian corridor following the remedial action.
 - A long-term groundwater monitoring program was put in place to evaluate the effectiveness of the remedy completed at OU1.
- OU6 (Dzus Fastener Company Inc. [DFCI] Facility)
 - The DFCI facility went through a Resource Conservation and Recovery Act closure that was completed in 2018 and included the decontamination of the building, excavation of contaminated soils, installation of a soil vapor extraction system, and remediation and closure of leaching pools. The building was demolished in 2019.

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2. PRE-DESIGN INVESTIGATION

The goal of the PDI work has been to better understand geochemical conditions at the site and to delineate the cadmium plume throughout the aquifer. The PDI has been completed in sequential phases, with Phase 1 being completed in May and June 2024, Phases 2 and 3 being completed in February and March 2025 (**Figure 2**). PDI activities have included collection of in situ groundwater samples, soil samples, monitoring well samples, hydraulic conductivity testing, and geochemical analysis. All groundwater and soil sample locations from Phase 1 were surveyed on 15 July 2024, and the ground surface and feature elevations determined during this field effort have been used for the PRB design described here. A summary of the PDI and results collected to date is provided below. A full discussion of the results is presented in the groundwater PDI (EA 2024) and the most recent sampling memo from the September 2024 sampling event (EA 2025a).

2.1 IN SITU GROUNDWATER SAMPLING/SOIL BORINGS

Dissolved cadmium was detected above the NYSDEC ambient water quality standard (AWQS) of 5 μ g/L in 32 of 108 groundwater samples. Detected dissolved cadmium concentrations ranged from 1.6 μ g/L (ISB-B6-GW-21-25) to 770 μ g/L (ISB-B5-GW-11-15). Total cadmium concentrations generally were higher than co-located dissolved cadmium concentrations; 69 of 108 samples had total cadmium concentrations in exceedance of 5 μ g/L. Detected total cadmium concentrations ranged from 1.5 μ g/L (ISB-A1-GW-41-45) to 2,500 μ g/L (ISB-A9-GW-11-15). Generally, the greatest cadmium concentrations are observed in shallow in situ groundwater samples (depth range of 11 to 15 feet below ground surface [bgs]) in the vicinity of Captree Plaza, both upgradient and downgradient of the building. One exception was the elevated concentration observed in sample ISB-C1-GW-11-15 (690 μ g/L), which is located due west of Captree Plaza in the center of the Stop & Shop Plaza parking lot (EA 2024). In general, cadmium concentrations in groundwater samples collected from the in situ boring (ISB) points during the PDI are higher than previously reported groundwater monitoring well samples collected during routine site management sampling efforts.

Dissolved chromium was detected above the NYSDEC AWQS of 50 μ g/L in one groundwater sample. Detected dissolved chromium concentrations ranged from 6.9 μ g/L (ISB-B8-GW-11-15) to 510 μ g/L (ISB-B1-GW-4-8). A total of 106 of the 108 groundwater samples were non-detect for dissolved chromium. Total chromium concentrations generally were higher than co-located dissolved chromium concentrations; 108 of 108 samples had total chromium concentrations in exceedance of 50 μ g/L. Detected total chromium concentrations ranged from 54 μ g/L (ISB-B6-GW-41-45) to 3,900 μ g/L (ISB-B4-GW-31-35) (EA 2024). The spatial distribution of total chromium within the sample dataset does not appear to be confined to any specific depth or area around the site. In general, chromium concentrations in groundwater samples collected during the PDI are higher than previously reported groundwater monitoring well samples collected during routine site management sampling efforts.

Geochemical parameters were measured prior to collection of each in situ groundwater sample. Temperature in groundwater samples ranged from 12.66 to 22.80 degrees Celsius. pH in groundwater samples ranged from 5.03 to 7.66. Specific conductivity in groundwater samples ranged from 0.132 to 1.31 microsiemens per centimeter. Oxidation-reduction potential (ORP) in groundwater samples ranged from -129 millivolts (mV) to 194 mV. Turbidity in groundwater samples was generally high, ranging from 129 to greater than 1,000 nephelometric turbidity units. Dissolved oxygen in groundwater samples ranged from 0.00 to 10.98 milligrams per liter (EA 2024).

2.2 HYDRAULIC PROFILING TOOL

To further refine the understanding of groundwater movement in the aquifer, the Phase 1 PDI Report recommended a Geoprobe hydraulic profiling tool (HPT)-GWS be used to conduct additional profiling, particularly near Willetts Creek and the proposed location of the PRB. Seven HPT borings were advanced to an approximate depth of 45 feet bgs under the fulltime supervision of an EA geologist (**Figure 2**).

2.2.1 Site Geology

The site is located within the Atlantic Coastal Plain Physiographic Province and is consistent with the geology of Long Island as characterized by a southward-thickening wedge of unconsolidated Cretaceous and Cenozoic sediments uncomformably overlying a gently dipping Pre-Cambrian bedrock surface. The primary geology of the site consists of the Upper Glacial aquifer which is a formation of glacial outwash identified by thick deposits of unconsolidated water-bearing sands and gravels that become finer at depth. The Upper Glacial Aquifer is approximately 250 to 260 feet thick with around 200 to 210 feet of saturated thickness of Pliocene and Pleistocene glacial deposits. Here, the shallow aquifer is considered the material extending approximately 20 feet below the water table (-10 feet of North American Vertical Datum 1988 [NAVD]), which encompasses the highest cadmium concentrations observed in the in situ borings (between 11 to 15 feet bgs or approximately 1 to 2 feet NAVD) (EA 2024). Boring logs indicate that the shallow aquifer is comprised of a well graded fine to coarse sand with some fine to coarse gravel, which is consistent with previous investigations as well as the hydraulic conductivity measurements conducted during this investigation. Additionally, the shallow aquifer material was noted to be relatively uniform across all soil borings, particularly behind Captree Plaza.

2.2.2 Site Hydrogeology and Hydrology

There are three primary water-bearing aquifers underlying Suffolk County. These aquifers, from shallow to deep, are the Upper Glacial, Magothy, and Lloyd. The aquifers are considered to be hydraulically connected, with the Glacial and Magothy contributing recharge for the underlying Lloyd aquifer. During the glacial retreat, the area was covered with outwash deposits that constitute most of the Upper Glacial aquifer of Long Island. Because these sand and gravel deposits contain virtually no interstitial clay and silt, the Upper Glacial aquifer is the most permeable. The direction of groundwater movement through Long Island's aquifers is horizontal and is generally more rapid than the movement in the vertical direction. This arises because of an anisotropic effect stemming from the general horizontal orientation of the largest dimensions of particles in the interbedded fine- and coarse-grained layers.

Groundwater in the Upper Glacial aquifer flows away from two major highs on the main water table divide on Long Island. The general directions of groundwater flow of the island are north toward the Long Island Sound and south towards Great South Bay. Based on site-specific groundwater data, local groundwater flow at the site moves south to southwest towards Great South Bay. Previous interpretation of groundwater elevation measurements at the site suggested that localized groundwater flow was directed to Willetts Creek south/southeast of OU1; however, with the widespread detection of site contaminants of concern and an updated groundwater elevation map, the predominant movement of groundwater is found to be south-southwest towards Great South Bay (**Figure 3**).

Willetts Creek is a north-south flowing, slow-moving creek, approximately 15 to 20 feet wide and less than 6 inches in depth in most parts (but upwards of 2 feet deep in slower velocity areas). The creek flows in a southerly direction approximately 4,500 feet to Lake Capri, a privately owned, 8-acre, man-made lake. The creek is fed by both upstream surface water runoff and groundwater base flow.

2.2.2.1 Hydraulic Gradient

Hydraulic gradients were calculated across the site using the groundwater elevations in the monitoring wells (June 2024) and ISB locations (May 2024) and were evaluated in both the upgradient portion (0.00513 foot/foot) and downgradient portions (0.00511 foot/foot) of the site. The hydraulic gradient used for mass flux and other evaluations was determined to be 0.005 foot/foot, which is on a similar order of magnitude as the previous hydraulic gradient used (0.0085 foot/foot) to update mass flux calculations (EA 2023a).

2.2.2.2 Hydraulic Conductivity

Hydraulic conductivity of the Upper Glacial aquifer has been measured during previous investigations via various methods, resulting in estimates of hydraulic conductivity ranging from 120 to 400 feet/day. During the PDI, HPT borings measured hydraulic conductivity and observed an average hydraulic conductivity of approximately 67.36 feet/day at HPT-07 from 6.5 to 45.2 feet bgs. Hydraulic profiling tools provide an estimation of hydraulic conductivity without potential influence of the sand or gravel pack around a monitoring well; therefore, the lower hydraulic conductivity is assumed to be more representative of the location of the barrier and so will be used for barrier design and site assessments.

2.2.3 Site Geochemistry

Water quality parameters collected during the PDI continue to indicate that the aquifer on-site is relatively oxidizing as indicated by the following:

- An average ORP at in situ boring points = 4 mV
- An average ORP in monitoring wells = 129 mV
- Slightly acidic conditions in in situ boring points (average pH = 6.35) and in monitoring wells (average pH = 6.43)

Environmental conditions are unfavorable for cadmium precipitation and are expected to return to oxidizing conditions if the aquifer was artificially adjusted to become more reducing, particularly in the shallow aquifer, because of the high groundwater velocity. Chromium speciation is expected to be in the reduced oxidation state as trivalent chromium; however, the widespread nature of chromium detections in the PDI introduced concerns about speciation considering the high mobility of hexavalent chromium in groundwater. Chromium speciation was sampled at a subset of 5 monitoring wells during the September 2024 groundwater sampling event. Hexavalent chromium was detected in 4 of 5 monitoring wells, and concentrations ranged from 3.6 to 43 μ g/L, of which no samples exceeded the New York State Class GA groundwater standard of 50 μ g/L for hexavalent chromium.

3. DESIGN METHODOLOGY AND BENCH-SCALE TESTING

3.1 DESIGN GOALS

The purpose of this IRM is to mitigate the greatest mass discharge of cadmium from groundwater to Willetts Creek as it results in recontamination of sediment and surface water. EA is proposing to accomplish this by installing a PRB adjacent to locations of highest dissolved cadmium detections in sediment from the September 2024 and December 2024 sampling event: SD-01, SD-06, SD-03, SD-04 (**Figure 4 and 5**) (EA 2025a). This also coincides with a hot spot of cadmium detected during the Phase 1 PDI where dissolved cadmium concentrations in groundwater range from 25 μ g/L to over 500 μ g/L (**Figure 5**). The PRB will reduce cadmium concentrations below NYSDEC AWQS Class GA screening criteria (5 μ g/L) to mitigate high mass fluxes of cadmium into Willetts Creek. It is important to note that this PRB is not expected to address the larger scale groundwater plume that has been identified during the PDI.

Design parameters will be informed by the PDI summarized in Section 2 of this report and a bench-scale column study performed by PRIMA Environmental (PRIMA) of El Dorado Hills, California, described herein. The bench-scale column study used contaminated groundwater from an on-site monitoring well, MW-13A, located upgradient of Willetts Creek, and native soil from the proposed PRB location.

3.2 SELECTED TECHNOLOGY

Apatite, a natural fishbone material, was selected as the media for installation in the PRB. Apatite can be utilized as either a larger grain (whole bone) or smaller grain (one crush) product that provides a range of surface areas and grain sizes for a potential barrier. Here, the crushed Apatite will be used to provide greater surface area than the whole bone product and to facilitate soil mixing to create the PRB. Apatite sequesters cadmium through three different processes, either through ion exchange within the material matrix, surface sorption to available sites on the material surface, and/or reductive precipitation of cadmium as a cadmium sulfide mineral (Greenockite [CdS]) caused by the side formation of sulfide in solution. Apatite II has been used previously to construct a barrier to treat mine waste which contained high concentrations of cadmium where effective treatment of cadmium was observed (Conca et al. 2006). It is expected that the majority of treatment will be from either ion exchange or surface sorption.

Several other remedial technologies were evaluated, such as reductive precipitation, sorption, and ion exchange; however, Apatite was chosen based on observed site conditions and the properties of cadmium. Additionally, cadmium is present in only one oxidation state (2+), which limits the use of any technologies that may alter the metal's redox state; for example, zero valent iron, which has been shown to reduce hexavalent chromium to the much less mobile trivalent chromium (Interstate Technology and Regulatory Cooperation Work Group 1999). More specifically, groundwater at Dzus has been observed to be oxidative (ORP > 100 mV), have a generally circumneutral pH (pH ~ 7), and be relatively fast flowing, which influences the selected technology and precludes the use of other more conventional treatments for high metal concentrations in groundwater. Metals are commonly treated through reductive precipitation with sulfides or iron oxides/oxyhydroxides; however, the geochemical conditions observed at

Dzus do not support the use of such a technology as it is anticipated that any reducing conditions formed will return to more natural oxidative conditions over time. It is expected that reductive cadmium precipitates are not stable in oxidative conditions and that cadmium would be expected to be released as site conditions return to more natural conditions.

3.3 BENCH-SCALE COLUMN STUDY

A bench-scale column study was performed by PRIMA to evaluate the removal of cadmium from site groundwater by Apatite as well as to determine the necessary contact time for site groundwater to be remediated by Apatite. Two bench-scale column studies were performed to compare removal rates of Apatite: one column with whole bone Apatite and one column with crushed Apatite, representing testing conditions with two varying particle sizes. It was hypothesized that the smaller particle size of the crushed apatite material would provide larger surface area for cadmium sorption and therefore larger concentration reductions.

Whole bone Apatite was shipped from UFA Ventures, Inc., in a 1-gallon plastic bag, to PRIMA for use in the column study. The whole bone Apatite particle sizes varied with an approximate maximum length of 2 inches. An additional shipment was made from UFA Ventures, Inc., in a 1-gallon plastic bag, to PRIMA of crushed Apatite for use in the second column. The material safety data sheet for the Apatite material is included as **Appendix A**.

Several tests were performed as part of the column study, including the initial characterization of field materials, an isotherm test, a preliminary column test to determine contact time, and the full column test. The final report provided by PRIMA is included as **Appendix B**.

3.3.1 Groundwater

Fifteen gallons of groundwater collected from MW-13A on 9 August 2024 were shipped in six 2.5-gallon carboys to PRIMA. Groundwater samples were collected as part of ongoing site monitoring activities performed 17-18 June 2024 and analyzed by Pace Analytical for dissolved metals via U.S. Environmental Protection Agency (EPA) Method 6010. The dissolved cadmium concentration in MW-13A was measured at 280 μ g/L. Concurrently, PRIMA analyzed the 15 gallons of groundwater they received for dissolved metals via EPA Method 6010. Upon receipt, dissolved cadmium concentrations in the groundwater received by PRIMA was found to be 240 μ g/L. It was decided that groundwater would be spiked with cadmium nitrate to an approximate concentration of 600 μ g/L to be more consistent with the high dissolved concentrations observed during the PDI (770 μ g/L at ISB-B5 from 11 to 15 feet bgs). An additional 20 gallons of groundwater was collected from MW-13A and sent to PRIMA on 11 November 2024 for use in a second column using crushed Apatite.

3.3.2 Soil

Soil was collected from approximately 8 to 12 feet bgs near the proposed PRB location behind Captree Plaza and near ISB-B5 (**Figure 2**). Approximately 70 pounds of soil was shipped in 1-gallon plastic bags to PRIMA. The hydraulic conductivity of native soil and amended soil was analyzed by Gulf Shore Construction Services, Inc. (Rancho Cordova, California) under contract to PRIMA for use in the PRB design. Hydraulic conductivity of native soil was measured at 0.00623 centimeters per second (17.66 feet per day). Soil amended with 3 percent mass by mass mixture of Apatite had hydraulic conductivity measured at 0.00407 centimeters per second (11.53 feet per day).

3.4 COLUMN STUDY METHODOLOGY AND RESULTS

3.4.1 Methods – Isotherm Test

An isotherm test was performed to determine the adsorptive capacity of Apatite in provided site groundwater. Twelve reactors containing whole bone Apatite and site groundwater in various ratios were prepared using 250-milliliter plastic bottles. These reactors were mixed end-over-end for three days, and effluent water from these reactors was analyzed for dissolved cadmium by PRIMA via EPA Method 6010. The outcome from the isotherm test is a sorption curve (Mass sorbed [in milligrams per gram] versus Dissolved Cadmium [μ g/L]) that will be used to determine the amount of dissolved cadmium sorbed by a gram of Apatite. The isotherm study results are difficult to interpret as typically an increasing amount of sorbent will lead to a decrease in contaminant concentration, however, in this study as Apatite concentrations increased, dissolved cadmium concentrations increased as well. PRIMA observed the formation of foam and a change in color to a cloudy orange which was interpreted to represent biological activity that may have produced volatile fatty acids which complexed with dissolved cadmium and limited the efficacy of the Apatite material.

3.4.2 Methods – Preliminary Column Test

A preliminary column test was performed to determine the contact time needed to remove dissolved cadmium. Three columns were prepared from 2-inch diameter polyvinyl chloride (PVC) pipe with approximately 6 inches of whole bone Apatite as the bed height. Flow rates in each column were varied to allow for different hydraulic residence times (HRTs) of approximately 10 minutes, 30 minutes, and 60 minutes respectively. After approximately 10 pore volumes were passed through each column, the influent and effluent were sampled and analyzed for total and dissolved cadmium.

3.4.3 Methods – Column Test – Whole Bone

The full column study uses a single column that is 2 inches in diameter with a bed height of Apatite between 6 and 12 inches and an HRT of 30 to 60 minutes. The final bed height was 9 inches, and HRT was initially determined to be 4.2 hours, but was increased to 8 hours after limited removal was observed within the first 18 pore volumes. Wall effects (undesirable flow conditions) are not expected in this column setup as the Apatite material has irregular shapes and creates substantial void spaces when packed into the column. Spiked groundwater with a starting dissolved cadmium concentration of approximately 600 μ g/L was pumped into the column through the bottom to create upwards flow and to avoid preferential pathways or unsaturated regions within the column. The influent and effluent were sampled periodically for total and dissolved cadmium, anions (including nitrate, sulfate, and phosphate), ORP, and pH. Anaerobic conditions were achieved within the barrier as demonstrated by the decrease in ORP values from 165 mV to -67 mV after 16 pore volumes. Samples were collected approximately every 10 pore volumes for a total of 13 samples and 110 pore volumes (**Exhibit 1**).

Total cadmium results in the column effluent ranged from 14 to 200 ug/L, which is well above the remedial goal of 5 ug/L or lower in groundwater downgradient of the proposed barrier. It was decided that instead of proceeding to the originally planned 150 pore volumes, PRIMA would end the whole bone column test early and evaluate a different Apatite product instead. The high cadmium concentrations in the column effluent indicated that the whole bone Apatite material did not perform as expected and is not a viable material with which to construct the PRB.

3.4.4 Methods – Column Test - Crushed

A second column was prepared to evaluate the cadmium removal of crushed Apatite material following the completion of the first column test using the whole bone Apatite. The same column dimensions (2-inches in diameter) were used as in the whole bone Apatite column test and the bed height was slightly higher (10 inches). The HRT was held at an increased time of 8 hours, similar to the first column test, however the HRT was decreased during the test to approximately 4 hours and then approximately 2 hours to increase flow rate and to evaluate whether column breakthrough would be observed. Spiked groundwater was pumped through the bottom of the column to create upwards flow and to avoid preferential pathways or unsaturated regions within the column. The column was prepared by mixing the crushed Apatite with remaining site soil to achieve a 3 percent mass by mass mixture (which was recommended by the Apatite vendor) to load the column. The influent and effluent were sampled periodically for total and dissolved cadmium, anions (including nitrate, sulfate, and phosphate), ORP, and pH. Crushed Apatite demonstrated a much greater efficacy towards cadmium removal than the whole bone Apatite. As shown in **Exhibit 1**, cadmium concentrations were consistently low for the duration of the column study which indicates that the crushed Apatite material is a viable material to construct the PRB. A complete report from PRIMA is provided in **Appendix B**.

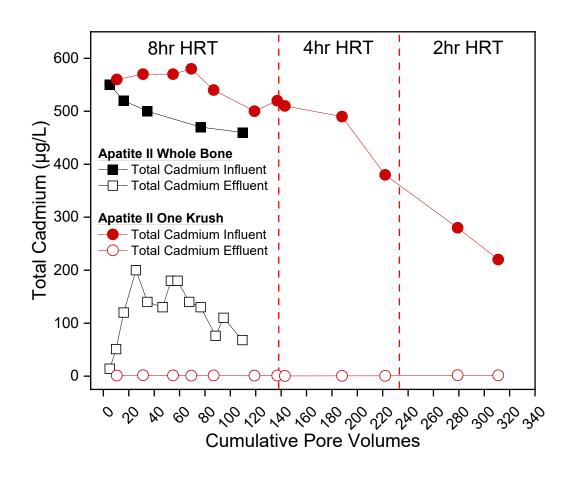


Exhibit 1. Total Cadmium Concentrations in Laboratory Column Studies

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4. BASIS OF DESIGN

4.1 DESIGN ASSUMPTIONS

Several design assumptions were made to develop a preliminary design for an Apatite barrier, which are described as follows:

- The crushed Apatite material is effective at treating cadmium in groundwater and will be successful at decreasing observed groundwater concentrations from approximately 600 μ g/L to the NYSDEC AWQS Class GA standard of 5 μ g/L or below (Section 3.4.4).
- Willetts Creek is the main receptor for cadmium contamination from groundwater.
- The barrier is intended to address only the high cadmium concentrations observed near ISB-B5/MW-24 that are likely to communicate with Willetts Creek.
- The parameters to calculate site groundwater velocity were determined during the PDI, and the groundwater velocity to be used for the design will be 1.05 feet/day.
- Geochemical conditions within the aquifer are assumed to be oxidative and will remain oxidative.
- The PRB should address the portion of the plume expected to be communicating with Willetts Creek, prioritizing areas where sediment samples show exceedances of cadmium. The barrier length can be increased over time in subsequent phases should additional protection be needed along Willetts Creek.
- The PRB will be constructed in two phases to allow for a field evaluation of the Phase 1 barrier prior to the installment of the Phase 2 barrier.

4.2 TARGETED TREATMENT AREA/ZONE

During the recent PDI, the highest cadmium concentrations in groundwater were located between 11 and 15 feet bgs, as identified at ISB-B5 (EA 2024). Sediment sampling results from site management activities continue to demonstrate that the greatest cadmium concentrations in sediment occur near or downgradient of Captree Plaza and Stop & Shop Plaza. Additionally, as discussed during the PDI, it was assumed that shallow groundwater (approximately 5 feet below the bed of Willetts Creek) would communicate with the surface water body consistent with previous aquifer head tests performed on Long Island (LMS 1994). The barrier will be installed to approximately -8 feet NAVD, which is intended to capture the vertical interval thought to interface with Willetts Creek as well as the water table, which is estimated to be from 2 to 5 feet bgs or shallower at the barrier location. The PRB will be constructed in two separate phases: Phase 1 (150 foot length) to address the greatest dissolved cadmium concentrations coinciding with the highest sediment samples, Phase 2 (150 foot length) to provide additional armoring to Willetts Creek. The anticipated treatment area is the wetland behind Captree Plaza and Stop & Shop Plaza and along Willetts Creek. The barrier will be placed close to Willetts Creek, but with a buffer to allow for the installation of new monitoring well pairs (**Figure 5** and **Appendix C**).

4.3 SITE CHARACTERISTICS AND DESIGN CONSIDERATION

4.3.1 Residence Time Required for Treatment

The HRT required for groundwater treatment by the proposed Apatite PRB is a critical parameter that will be determined by the results of the column study. The HRT informs the required thickness of the barrier necessary to treat groundwater at the site and will be important to evaluate the potential footprint of the proposed barrier and the amount of Apatite required to complete the design. The HRT used for the column study is approximately 8 hours.

4.3.2 Groundwater Flow Velocity

The groundwater flow velocity (seepage velocity) is an important parameter to anticipate the expected groundwater flow through the proposed PRB as it is directly related to HRT required to achieve cadmium reduction. As shown below, the seepage velocity was calculated using parameters developed during the PDI:

$$v = -\frac{K}{n_e} \frac{\Delta H}{\Delta L}$$

Where: v = seepage velocity (feet/day), K = average hydraulic conductivity (feet/day), n_e = effective porosity (dimensionless), $\Delta H =$ change in hydraulic head, H₂ – H₁ (feet), and $\Delta L =$ distance between H₂ and H₁ (feet). During the PDI, hydraulic conductivity (K) was measured using HPT at location HPT-07, adjacent to ISB-B5, from 6.5 to 45.2 feet bgs. K averaged 67 feet/day across this depth interval. Given the site lithology and results of the PDI, the effective porosity (n_e) was estimated at 0.32. Hydraulic head measurements (H₂ and H₁) from ISB-A5 and ISB-C2, as well as ISB-C2 and ISB-C1, located approximately 100 and 145 feet apart (ΔL), respectively, were used to calculate an approximate hydraulic head of 0.005 foot/foot, which was subsequently used to calculate *v*. Given these inputs, the seepage velocity (*v*) was calculated to be 1.05 feet/day, which is similar to the flow velocity estimate (1 foot/day) presented in the Remedial Investigation/Feasibility Study (LMS 1994).

4.3.3 Proposed Location and Orientation

The PRB will be installed behind Captree Plaza and Stop & Shop Plaza along the wetland area to the northwest of Willetts Creek to mitigate high groundwater concentrations of cadmium at and around ISB-B5. The proposed orientation of the Phase 1 and Phase 2 barriers is provided on **Figure 5** and is depicted as running mostly parallel to Willetts Creek. The Phase 1 barrier is intended to capture and treat any contamination that may be communicating with Willetts Creek in the areas where high cadmium concentrations have been previously observed in surface water and sediment samples. The Phase 2 barrier is intended to capture and treat any contamination that may migrate further downstream and to provide additional armoring to Willetts Creek. In addition, the barrier will intercept a stormwater feature called out on **Figure 5**, which will be addressed during PRB installation.

As determined during the survey performed 15 July 2024, the elevation of ISB-B5 is 16.47 feet NAVD; therefore, to intercept the contamination between 11 and 15 feet bgs, the PRB will need to be designed to a depth at or below 1.47 feet NAVD. Therefore, the PRB is proposed to extend from is approximately 7 to -8 feet NAVD (2 feet bgs to 17 feet bgs) for a total height of 15 feet (**Appendix C**). The assumption for depth below ground surface assumes that the installation area is relatively uniform along the PRB transect and no substantial drops in elevation are encountered.

The barrier width was determined to achieve a HRT sufficient for contaminant treatment. From the results of the column study, an 8-hour residence time achieves complete contaminant treatment using the crushed Apatite, and the barrier must achieve that residence time at a minimum. Given the groundwater velocity calculated previously (1.05 foot/day), the barrier must be 0.35-foot at a minimum. To prolong the barrier's lifespan and to accommodate the proposed mixing method, a wider barrier of 5 feet will be constructed, which would achieve a HRT of approximately 114.3 hours, which is well above the treatment criteria used for the column study.

4.4 PERMEABLE REACTIVE BARRIER DESIGN

In situ soil mixing has been chosen as the proposed implementation method for the PRB. Soil mixing can be performed with an excavator bucket or large diameter augers to introduce treatment products. The geology at the site has been observed to be highly porous and is expected to readily accept an Apatite mixture with limited decreases in groundwater flow. Given the high costs typically associated with the mobilization and execution of auger mixing, it is anticipated that bucket mixing will be more economical while providing an equivalent end product. Bucket mixing allows for a smaller equipment footprint at a lower cost, which is favorable for the scale of the proposed PRB. However, EA will not dictate means and methods of mixing and will solicit costs from contractors that may propose auger mixing or bucket mixing.

The in situ PRB design is based on an expected mass percentage of Apatite required to complete the barrier within a designated unit cell as a subset of the overall 300-foot barrier length. In situ mixing will be used to place crushed Apatite and distribute the material throughout the water column at a 3 percent solids mass by mass percentage to create the proposed PRB. Mixing of Apatite with native material will be completed using a top-down approach. The mixing cell would then be mixed until homogenous.

The anticipated mass of Apatite necessary for the barrier is approximately 40 metric tons (~88,186 pounds). The barrier will be installed in the wetland adjacent to Willetts Creek with a track-mounted excavator, and the PRB wall alignment will be marked out with stakes prior to commencement of work. The barrier is anticipated to cross a stormwater outlet that will be addressed during barrier construction. The in situ soil work will consist of bucket mixing, with an excavator, of existing soil and reagents to achieve a 3 percent solids mass by mass percentage. The chosen subcontractor will utilize an appropriately sized excavator with the necessary weight, breakout force, and depth/reach capabilities to adequately perform all bucket soil mixing within the wall alignment.

Before starting work in the PRB wall, the excavator operator will create 1-foot soil berms as necessary on the edges of the cell, resulting in a slight depression in the center. This will provide a controlled work area in which to apply and contain the Apatite material. In situ soil work will be performed from the top of the pre-excavated area to the prescribed bottom, until the soil and Apatite have been thoroughly mixed/homogenized and the pre-determined volume of Apatite has been applied. The anticipated Apatite material usage is approximately one metric ton every 7.5 linear feet. The mixing excavator will be used to homogenize the Apatite and soil over the entire depth of the PRB wall.

4.5 MONITORING WELL INSTALLATION

To monitor the installation and effectiveness of the PRB, monitoring wells will be installed upgradient and downgradient along the barrier at 50-foot intervals for 11 monitoring wells total during Phase 1. Downgradient monitoring wells will be installed as shallow-deep pairs to capture any potential flow diversion and contaminant flow beneath the barrier. In addition, two monitoring wells will be installed outside the footprint of the barrier on the upgradient side to monitor any flow diversion around the barrier. The upgradient and side gradient monitoring points will be constructed using 2-inch diameter PVC pipe with a 10-foot, 0.010 slot-well screen with #0 US silica gravel pack (or equivalent). The downgradient monitoring wells will be constructed using 2-inch diameter PVC pipe with a 10-foot, 0.010 slot-well screen for the shallow monitoring wells, and a 5-foot, 0.010 slot-well screen for the deep monitoring wells. The gravel pack will be constructed using #0 US silica gravel pack (or equivalent). The monitoring wells will be installed with a track-mounted drill rig in or near a wetland, and tracking mats will be used as necessary to access the well locations. Preliminary locations for the proposed monitoring points on the PRB during Phase 1 are included on **Figure 5** and are spaced approximately 6 feet laterally off the PRB transect.

All monitoring wells will be installed after the PRB to allow for barrier construction and to limit any potential damage to newly installed monitoring wells. Monitoring well development and a baseline sampling event will be conducted as soon as possible following installation and will follow the schedule included in **Exhibit 2**.

Additional monitoring wells will be installed as part of the Phase 2 construction for the barrier and the preliminary locations are displayed on **Figure 5**. It is expected that the proposed Phase 2 monitoring wells will be constructed to similar depths and of similar materials as the Phase 1 monitoring wells, however, changes may be made to monitoring well construction to better capture plume dynamics following the Phase 1 barrier installation.

Well ID	Post Barrier Installation (Months 1, 3, 6)
Monitoring Well 1	O, F, M
Monitoring Well 2	O, F, M
Monitoring Well 3	O, F, M
Monitoring Well 4	O, F, M
Monitoring Well 5	O, F, M
Monitoring Well 6	O, F, M
Monitoring Well 7	O, F, M
Monitoring Well 8	O, F, M
Monitoring Well 9	O, F, M
Monitoring Well 10	O, F, M
Monitoring Well 11	O, F, M

Exhibit 2. Post Performance Monitoring Schedule (Phase 1)

Notes:

Field parameters monitored during injections will be restricted to pH measurement using disposable pH test strips.

O = Field observation and water level

F = Field parameters (dissolved oxygen, pH, ORP)

M = Metals (via EPA Method 6010D)

4.6 UPLAND AND WETLAND RESTORATION

It is important to note that the PRB location for both the Phase 1 and Phase 2 barriers intercepts the wetland and upland area adjacent to Willetts Creek as displayed in **Figure 5**. Following barrier construction, the wetland and upland areas will be restored in kind to pre-construction conditions in accordance with the PRB design drawings (**Appendix C**), the previous wetland restoration plan established as part of the previous Willetts Creek Remedial Design (EA 2018), and the Site Management Plan (SMP) (EA 2025b).

4.7 SITE ACCESS AND PERMITTING

Prior to constructing the IRM, access agreements must be obtained by NYSDEC from the Beach Street Middle School, Captree Plaza, and Stop & Shop Plaza properties. Access will be required for material/equipment delivery, staging, and stockpiling of materials, as well as construction activities to install the PRB.

The PRB installation will be completed as part of the New York State Superfund Program. As the project is being completed by NYSDEC, approvals that would come from NYSDEC will be granted through the approval of the Basis of Design and Work Plans. An overview of the permits and other approvals required are summarized in **Exhibit 3**.

Permit /	Responsible			
Approval Agency		Permit Reason / Process	Approval Status	
Nationwide Permit 38 / 401 Water Quality Certification	USACE / NYSDEC	Authorization needed for specific activities related to cleanup of hazardous waste and toxic waste; temporary impacts to stream and freshwater wetlands per Section 404 of Clean Water Act; and Joint Application Form needs to be submitted to NYSDEC and USACE.	In process of preparing submittal.	
Section 106 of NHPA	NYSHPO	Project completed by state agency that could potentially impact a cultural resource; consultation application needs to be submitted to NYSHPO.	EA determined no new NYSHPO is required per email confirmation from NYSPRHD on 13 January 2025.	
SPDES	NYSDEC (DOW)	Constructing or using an outlet/point source that discharges into surface or groundwater. Prepare and file SPDES equivalent with NYSDEC.	Not required for this project as determined in consultation with NYSDEC.	
Site Review, NY Natural Heritage Program	NYSDEC	Determine if rare plants, animals, or significant natural communities are located near the site. Use online NYDSEC Environmental Resource Mapper.	EA determined that consultation with New York Natural Heritage Program is not required.	
Endangered Species Act	U.S. Fish and Wildlife Service	Determination of threatened, endangered, proposed and candidate species that may occur within the project boundary or be affected by the project. Using the U.S. Fish and Wildlife Service IPaC system, submit an effects determination.	On 10 January 2025, EA determined that no threatened or endangered or candidate species occur within the project boundary.	

Exhibit 3. List of Permits/Approvals

4.8 ESTIMATED COST

A cost estimate was prepared for Phase 1 and Phase 2 of the PRB installation and is provided in **Appendix D**. The estimate includes anticipated labor, equipment, and materials needed to execute the work. Many unit costs for Phase 2 have been escalated by 3 percent to account for work potentially occurring in 2026. The total estimated capital construction cost for both phases of the PRB installation, with a 25 percent contingency, is approximately \$732,700.

5. DRAWINGS AND SPECIFICATIONS

Design drawings for the design of the IRM include the following:

- Title Sheet
- General Notes and Legend
- Existing Conditions Plan
- Site Design Plan
- Cross-Section Plan
- Restoration Planting Plan
- Details

Specifications are contained within the design drawing notes where necessary (Appendix C).

5.1 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

A critical component to the construction of the PRB is the collection of data to confirm that the barrier was constructed correctly according to the design documents. Quality assurance/quality control measures are intended to provide assurance that the barrier meets design criteria and are described in more detail below:

- The excavator bucket/mixing tooling will be expected to use Global Positioning System control to confirm the correct depth of excavation and location of the barrier.
- Field staff will measure the barrier width using a tape measure or survey rod to confirm that the necessary width is achieved throughout barrier construction.
- Total phosphorus measurements will be made to confirm barrier construction. Apatite is a calcium phosphate based material, and concentrations of total phosphorus are expected to increase following amendment with Apatite.
 - During the column study, PRIMA analyzed soil mixtures of 3 percent Apatite to determine a reference value for total phosphorus. Results in a 3 percent Apatite/soil mixture ranged from 1,600 to 2,300 milligrams per kilogram.
 - Before construction, EA will collect native soil samples from the Phase I PRB alignment to determine in situ concentrations of phosphorus. Total phosphorus in native soil will be compared to the results from the column study and help to serve as baseline measurement during construction. The change in phosphorus concentration from native soil to soil amended with 3 percent Apatite should confirm barrier homogeneity.
 - As the barrier is being mixed, field staff will collect soil samples every 10 feet from three different depths (0 5 feet below top of barrier, 5 10 feet below top of barrier, and 10 15 feet below top of barrier). Samples will be analyzed for

total phosphorus on an accelerated turnaround time (approximately 48 hours) via SM 4500 P E for Total Phosphorus.

- Reference phosphorus concentrations determined by PRIMA, native soil concentrations, and sampling results from the first 20 linear feet of PRB construction will be used to develop a mean (χ) total phosphorus concentration value and standard deviation (σ).
- \circ A range of total phosphorus concentrations determined to be acceptable is anticipated to be χ - σ < RESULT < χ + σ to account for variability in field conditions and accuracy in the analytical method.
- Deficiencies observed in field measurements (i.e., insufficient total phosphorus concentrations) will be remedied by additional mixing time until a more homogenous barrier is achieved or by the addition of more Apatite to the barrier cell being tested. It should be noted that if additional Apatite is added to a barrier cell, the barrier length may need to be adjusted to accommodate the decrease in available Apatite product. Apatite is only available for purchase at two times during the year (February-March and September-October) which may result in substantial lead times.
- Restoration quality assurance and quality control measures for the wetland areas will be conducted in accordance with the SMP (EA 2025b) and may include survivorship counts, observations of vitality and growth, identification of deceased plants, percent ground cover, success of native pioneer species, existence of wetland hydrology for the created wetland area, and observed fish and wildlife counts.

5.2 CONTRACTING DOCUMENTS

A contractor's scope of work, bid tab, and a measurement and payment schedule were prepared to outline the major work components of this Basis of Design. A draft of the two documents is provided in **Appendix E**. These documents will be used to solicit and procure qualified contractors to complete the PRB installation and will be incorporated into the purchase order issued to the selected bidder.

6. REFERENCES

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 - ——. 2023a. Groundwater Flux/Discharge Analysis 2023 Update Technical Memorandum, Dzus Fastener Company, Inc. Site (150233), West Islip, New York. September.
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———. 2025a. September 2024 Groundwater, Surface Water, and Sediment Sample Data Summary. January.

. 2025b. Site Management Plan Revision 3. February.

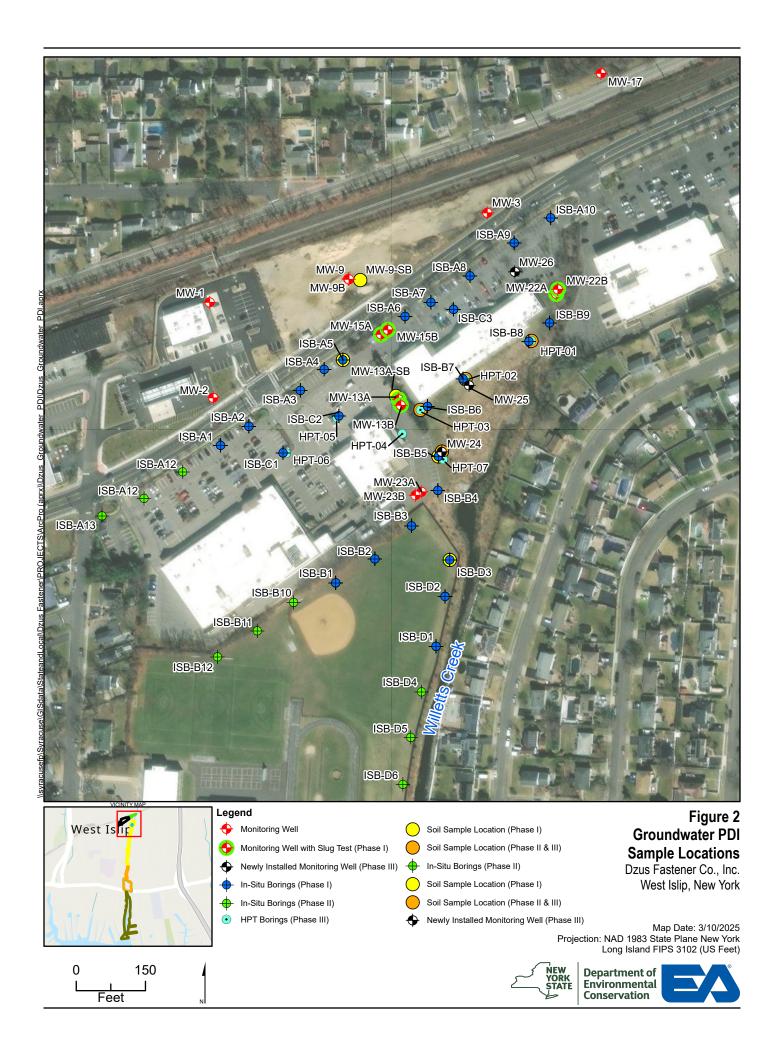
- Conca, James L., Wright, Judith. 2006. An Apatite II permeable reactive barrier to remediate groundwater containing Zn, Pb and Cd. Appl. Geochem. 21(8): 1288-1300.
- Interstate Technology and Regulatory Cooperation Work Group. 1999. Regulatory Guidance for Permeable Reactive Barriers Designed to Remediate Inorganic and Radionuclide Contamination. September.
- Lawler, Matusky & Skelly Engineers LLP (LMS). 1994. Remedial Investigation/Feasibility Study Report. Dzus Fastener Company, West Islip, Suffolk County. Site No. 150233. October.

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Figures

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1	Legend	
	Shallow Potentiometric Surface Contour	ShallowPotention
	Groundwater Flow Direction	
	A Monitoring Well	
)		
1		New
		NEW Depart

	SW-11 Sep-24
SD-02 Sep-24	Cadmium ND
Cadmium 3.9	Chromium ND
Chromium 13	
SW-01 Sep-24	SD-10 SD-11 Sep-24 Cadmium 0.71
Cadmium ND	SD-05 Chromium 3.2
Chromium ND	SD-015
SD-01 Sep-24	SD-06E
Cadmium 32	
Chromium 19	SD-04E
SD-06 Sep-24	SD-07
Cadmium 98 SD-09	
Chromium 32	
SD-03 Sep-24	
Cadmium 11 Chromium 6.1	
Chromium 6.1	SD-04 Sep-24
	Cadmium 15
	Chromium 7.8
A THE REAL PROPERTY AND A CONTRACTOR OF A DATE	
	SD-08 Sep-24
	Cadmium 0.71
	Chromium 2.3
	NYSDEC Class A
SD-12 Sep-24	Drinking Water
Cadmium 13	Standard Standard
Chromium 6.3	Cadmium 5 µg/L
	Cadmium 5 µg/L Chromium 50 µg/L
	NYSDEC Site-Specific Hardness-
	Corrected Surface Water
3 SW-14 Sep-24 SD-13	Standards for Class C Waters
Cadmium ND	NYSDEC Sediment Guidance Values Cadmium Chromium
Chromium ND SD-14 Sep-24	Compound Class A Class B Class C SW-01 1.38 48.11
SD-14 Sep-24	Cadmium <1 mg/kg 1-5 mg/kg 5 mg/kg SW-11 1.53 53.39
Cadmium 1.2	Chromium <43 mg/kg 43-110 mg/kg >110 mg/kg SW-14 1.35 46.77
Chromium 3.7	
Notes:	rtical results for cadmium and chromium are shown in units of micrograms per liter(µg/L). Sediment
Surface water analy analytical results for Willetts Creek is class	cadmium and chromium are shown in units of milligrams per kilogram (mg/kg).
Willetts Creek is class	ssified as a Class C water body, meaning the best usage is fishing. Bold surface water results indicate specific hardness-corrected NYSDEC Class C AWQS which represent values for protection of aquatic

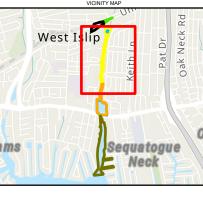
exceedance of site-specific hardness-corrected NYSDEC Class C AWQS which represent values for protection of aquatic life from chronic effects. Highlighted surface water results indicate exceedance of NYSDEC Class A AWQS which represent values for protection of sources of drinking water. note that Willetts Creek is not a source of drinking water; this comparison is provided for information purposes to provide context for established drinking water criteria.

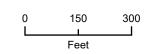


Ν

arison of results to NYSDEC Sediment Guidance Values (SGV) classifies sediment into Class A (low risk to aquatic life), Class B (potential risk to aquatic life), or Class C (likely risk to aquatic life). Bold sediment results indicate sediment is considered Class B. Highlighted sediment results indicate sediment is considered Class C.

AWQS = Ambient Water Quality Standards ND = Non-detect NYSDEC = New York State Department of Environmental Conservation SGV = Sediment Guidance Value





Legend

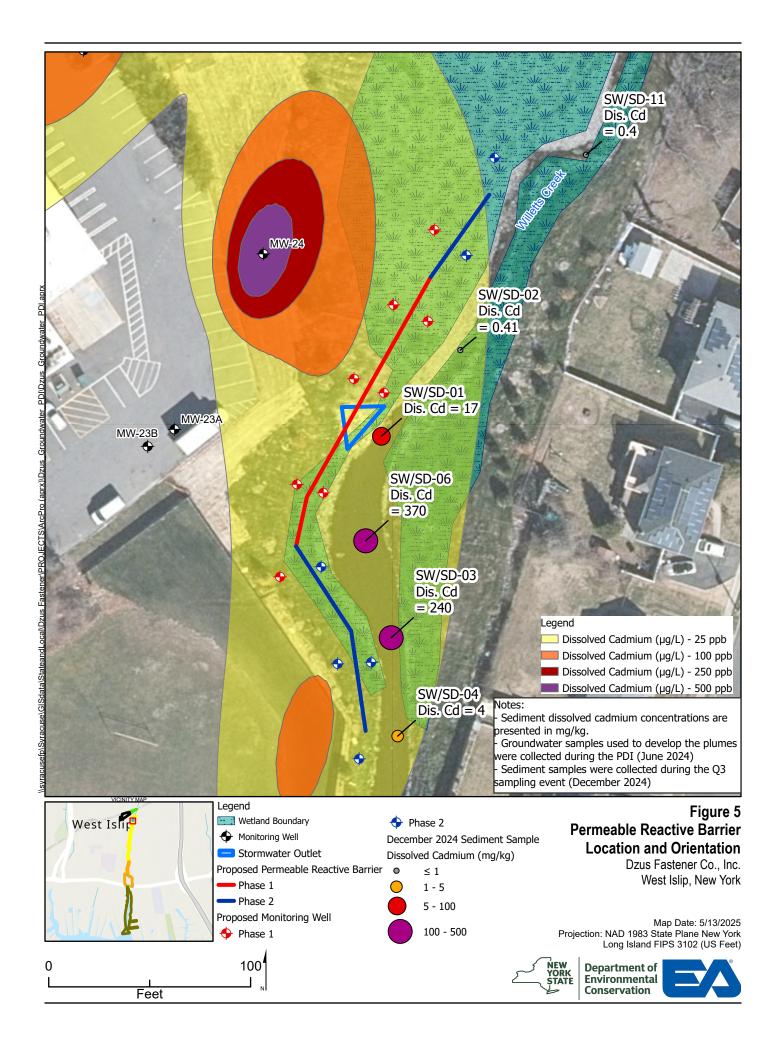
- \bigcirc Not Sampled
- **Sediment Sample** \bigcirc
- Surface Water/Sediment Sample \bigcirc

Figure 4 Surface Water and Sediment Analytical Results September 2024 Dzus Fastener Company, Inc.

West Islip, New York

Map Date: 11/6/2024 Projection: NAD 83 State Plane New York Long Island 3104 (US Feet) Source: Esri





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Appendix A Apatite II Material Safety Data Sheet This page intentionally left blank

MATERIAL SAFETY DATA SHEET

IRODUCI AIAIITEII	
COMPOSITION	Apatite II $[Ca_{10-x}Na_x(PO_4)_{6-x}(CO_3)_x(OH)_2$ where $x < 1]$, produced from fish bones (U.S. Patent #6,217,775)
APPEARANCE & FORM	Granular, various sizes from powder to gravel
PACKAGING	Bulk
ΤΟΧΙΟΙΤΥ	Ingestion-Nil Eye and skin contact-Nil Inhalation- Classified as nuisance dust only
CORROSION PROPERTIES	Non-corrosive
FIRE RISK	Low. Combustible when subjected to extreme heat
EXPLOSION RISK	None
HANDLING PROCEDURES	When being handled the dust can be a nuisance. This can be improved by extraction or ventilation. No smoking.
PROTECTIVE CLOTHING	Overalls, dust mask, and eye protection if necessary
STORAGE CONDITIONS	Should be stored at ambient temperature in dry metal or concrete bins.
FIRST AID REQUIREMENTS	
EYE CONTACT:	Flush eyes with water. Irritating but does not injure eye tissue.
INHALATION:	No hazard under normal conditions. Move victim to fresh air area. Call doctor if breathing is irregular. Low order of toxicity.
SKIN CONTACT:	Skin may become dry from the dust. Wash thoroughly after contact, with soap if available. Low order of toxicity.
INGESTION:	No hazard. If ingested, give large amounts of water. Minimal toxicity.

DISPOSAL OF SPILLAGE AND WASTE

Shut off source without hazard if possible. Sweep up spilled material and place in container to be recycled.

SUPPLEMENTAL INFORMATION

PRODUCT

ADATITE II

These materials are made from naturally occurring, benign fish bone products and may contain naturally occurring microorganisms. Proper precautions are advised to prevent infection of open wounds. Avoid inhaling excessive amounts of dust. Avoid eye contact. Observe the proper hygiene practices necessary to prevent health hazards from any naturally occurring substance such as soil, bark, etc. Wash hands with soap and water after handling.

The information contained in this MSDS is provided without warranty of any kind, expressed or implied. The information contained here is made available solely for the consideration, investigation and verification by the original recipient. Users should consider this information only as a supplement to other information gathered by or available to them. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials for the safety and health of employees, customers and environment. This hazard information is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable national, federal, state, and local laws and regulations regarding safety, occupational health, right to know, and environmental protection.



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Appendix B PRIMA Environmental Colum Study Report This page intentionally left blank



April 2, 2025

Hilary Williams EA Science & Technology 333 West Washington St., Ste 300 Syracuse, NY 13202

RE: Final Report of Findings "Bench-scale Evaluation of Apatite II for Removal of Cadmium from Groundwater" Client Project No: 1602515 Client ID: Dzus Fasteners PRIMA ID: EA-Dzus

Dear Ms. Williams:

Enclosed is the final Report of Findings entitled "Bench-scale Evaluation of Apatite II for Removal of Cadmium from Groundwater" that describes bench testing conducted on soil and groundwater from the Dzus Fasteners site. I can be reached at 916-939-7300 or <u>cschreier@primaenvironmental.com</u>, if you have any questions. Thank you for the opportunity to be of service.

Sincerely, **PRIMA Environmental, Inc.**

Cendy G. Schreier

Cindy G. Schreier, Ph.D. President and Chief Scientist



Report of Findings

Bench-Scale Evaluation of Apatite II Removal of Cadmium from Groundwater

Dzus Fasteners Site Client Project No. 1602515 PRIMA ID: EA-Dzus

April 2, 2025

Submitted to: Hilary Williams EA Science & Technology 333 West Washington St., Ste 300 Syracuse, NY 13202

Submitted by



5070 Robert J Mathews Parkway, Suite 300 El Dorado Hills, CA 95762

Cendy G. Schreier

Cindy G. Schreier, Ph.D., President

<u>__April 2, 2025</u> Date



EXECUTIVE SUMMARY

Bench-scale column tests were conducted using site soil and groundwater from the Dzus Fasteners site to evaluate the ability of Apatite II to remove cadmium (Cd) from the groundwater. Apatite II is a phosphate-based mineral derived from fish bones that works by sorbing metals and forming insoluble metal-phosphate minerals. It is available from UFA Ventures, Inc. in uncrushed and crushed form, both of which were evaluated in this study. The uncrushed form was evaluated as-received, while the crushed form was mixed with site soil (3% Apatite II weight percent of soil).

Laboratory testing demonstrated that Apatite II could reduce Cd concentrations in groundwater, though the Apatite II One Krush was more effective than uncrushed material. Uncrushed Apatite II reduced concentrations by 68-85% of Cd, but 68-200 μ g/L Cd was still present in the groundwater. Doubling hydraulic residence time (HRT) from 4 hours to 8 hours did not have much effect. A much longer HRT may improve the effectiveness of uncrushed Apatite II, but PRIMA recommends additional testing to confirm this. In contrast, site soil mixed with 3wt% Apatite II One Krush reduced Cd in groundwater by over 99%, with less than 2 μ g/L Cd present throughout the 311 pore volume study, even when the HRT was 2.1 hours. The improved removal is presumably due to the greater surface area of the crushed material.

Both uncrushed Apatite II and Apatite II One Krush reduced nitrate and sulfate concentrations given an HRT of 4 to 8 hours, and decreased pH by 1 pH unit.

Based on the results of this study, PRIMA recommends that Apatite II One Krush be considered for use at this site.



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ACRONYMS and ABBREVIATIONS

Cd	cadmium
g	grams
kg	kilograms
L	liters
mg	milligrams
mL	milliliters
mV	millivolts
μg	micrograms
ORP	oxidation reduction potential



1.0 INTRODUCTION

Bench-scale column tests were conducted using site soil and groundwater from the Dzus Fasteners site to evaluate the ability of Apatite II, a phosphate-based mineral derived from fish bones, to remove cadmium from the groundwater. Two column tests were performed – one using uncrushed Apatite II and one using a mixture of site soil and 3% crushed Apatite II.

1.1 Background

Apatite II is a phosphate-based mineral derived from fish bones. It can remove a wide variety of metals from water by sorbing metals and forming insoluble metal-phosphate minerals. It is available from UFA Ventures, Inc. in uncrushed and crushed form (Apatite II One Krush), both of which were evaluated in this study. The uncrushed material consists of flat, often narrow particles ranging in size from about ¹/₄ to 2 inches, while the Apatite II One Krush particles are less than about ¹/₄ inches and include dust (see **Figure 1**).

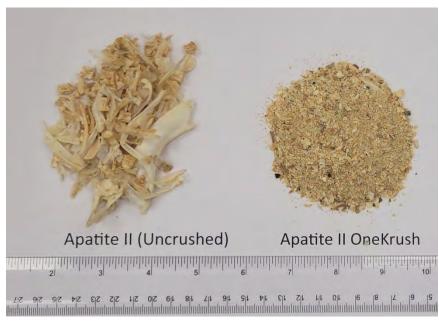


Figure 1. Apatite II and Apatite II One Krush. (Top of ruler is inches. Bottom of ruler is centimeters.)



1.2 Study Objectives

Batch and column tests were conducted to assess removal of cadmium (Cd) by each size fraction of Apatite II. Specific goals were:

- Characterize site soil and groundwater
- Develop a Cd sorption isotherm for uncrushed Apatite II (batch test)
- Determine whether uncrushed Apatite II could remove Cd and estimate the capacity of the uncrushed material (*column test*)
- Determine whether a mixture of Apatite II One Krush and site soil can remove Cd and estimate the capacity of the Apatite II One Krush (*column test*).

The tests conducted to achieve these goals are described in **Section 2.0** of this report. Results and Summary/Conclusions are presented in **Sections 3.0 and 4.0**, respectively.



2.0 MATERIALS and METHODS

2.1 Materials

Apatite II (uncrushed) and Apatite II One Krush were obtained It is available from UFA Ventures, Inc.

2.2 Preparation and Characterization of Soil and Groundwater

2.2.1 Soil

One soil sample (ISB-B5CS-080924) was received on August 16, 2024. Soil and soil plus 3wt% Apatite II One Krush were submitted for measurement of hydraulic conductivity using the laboratories and methods described in **Section 2.6**. The bulk density of the soil only sample was measured by the geotechnical laboratory on the submitted sample because the submitted sample appeared to be undisturbed. The bulk density of the soil only sample was used to prepare the hydraulic conductivity samples for both the soil only and soil+apatite samples. Site soil was used in the column test to evaluate Apatite II One Krush.

2.2.2 Groundwater

One groundwater sample (MW-13A-CS-08082024) consisting of 6, 2.5-gallon containers was received on August 9, 2024. Prior to use, it was transferred to a large container, mixed, then analyzed for total and dissolved cadmium, alkalinity, dissolved oxygen, nitrate, oxidation reduction potential (ORP), pH, and sulfate using the laboratories and methods described in **Section 2.6**. Because the concentration of Cd was lower than expected, the water was spiked with cadmium nitrate to a target concentration of 600 mg Cd/L, then reanalyzed for total and dissolved cadmium – see **Section 3.1** for results. This water was used for the isotherm test and the uncrushed Apatite II column.

Additional water was received on November 12, 2024 for use in the Apatite II One Krush/sand column test. Prior to use, it was spiked with cadmium nitrate to a target concentration of 600 mg Cd/L.



2.3 Isotherm Test – Uncrushed Apatite II

A batch test was performed in an effort to develop an isotherm for sorption of Cd onto uncrushed Apatite II. Thirteen reactors containing various amounts of uncrushed Apatite II and 150 mL of spiked site groundwater were prepared such that the initial concentration of Apatite II ranged from about 10 to 100 g/L. The reactors were 250 mL (nominal) plastic bottles. They were mixed end-over-end for 3 days, after which the water was analyzed for dissolved cadmium.

2.4 Cd Removal – Uncrushed Apatite II

Three preliminary column tests were performed to estimate the hydraulic residence time (HRT) needed to remove Cd prior to conducting the primary column test for evaluation of Cd removal.

2.4.1 Preliminary Tests

The columns were constructed of 2-inch diameter clear PVC pipe. The bed was 5.5 inches (77.2 - 77.7 g) of uncrushed Apatite II sitting on top of 5.5 inches (about 500 g) of clean silica sand. Flow was upflow and with a different flowrate for each column, such that the HRT was 10 minutes in one column, 30 minutes in the second, and 60 minutes in the third. After approximately 10 pore volumes had been put through, influent and effluent samples were collected and analyzed for total and dissolved cadmium. The results were used to determine the flowrate for the primary column test (**Section 2.4.2**). The 10-minute HRT column is shown in **Figure 2**.

2.4.2 Cd Removal

One column test was performed to evaluate long-term Cd removal. The column was similar to the preliminary columns, except that the bed was 9 inches (143 g) of uncrushed Apatite II sitting on top of 1 inch (59 g) of clean silica sand. The HRT was initially 4 hours, but was increased to 8 hours after 18 pore volumes because Cd was not completely removed (see **Section 3.4**). Influent and effluent samples were collected periodically and analyzed for total cadmium, nitrate, sulfate, ORP, and pH. Column parameters are summarized in **Table 1**.





Figure 2. Preliminary Column – Uncrushed Apatite II.

2.5 Cd Removal – Apatite II One Krush

One column test was performed to evaluate long-term Cd removal by Apatite II One Krush. The column was similar to the preliminary columns, except that the bed was 10 inches tall and contained site sand mixed with 3% by wet weight of sand of Apatite II One Krush. The HRT was initially 8-10 hours, but was reduced to 4.2 hours at 143 pore volumes, then to 2.1 hours at 279 pore volumes because Cd removal was excellent (see **Section 3.5**). Influent and effluent samples were collected periodically and analyzed for total cadmium, nitrate, sulfate, ORP, and pH. Column parameters are summarized in **Table 1**. At the end of the test, the column was dismantled, the bed homogenized, then submitted for analysis of total phosphorous.

2.6 Analytical Methods

The methods for each analysis and the laboratory that performed the analyses are summarized in **Table 2**. All subcontracted samples were collected in appropriately preserved containers and shipped on ice under chain of custody via overnight delivery to



the analytical laboratory. Samples for dissolved cadmium and anions were filtered by PRIMA through a 0.45-micron polyethersulfone (PES) filter.

Devenueter	11-2:4-2	Column		
Parameter	Units	Uncrushed Apatite II	Apatite OneKrush	
			site sand plus	
Bed	Material	Uncrushed Apatite II	3wt% of Apatite	
Ded			OneKrush	
	mass, g	143	935*	
Column diameter	inches	2	2	
Bed Height	inches	9	10	
Bed Volume	mL	460	515	
Pore Volume	mL	404	200	
	mL/min	1 6 for first 19 py	~0.4 for 0-139 pv	
Flowrate		1.6 for first 18 pv, 0.84 thereafter	0.79 for 139-235 pv	
			1.6 for 235-313 pv	
	h o / o o	1 2 for first 10 pu	~8 for 0-139 pv	
HRT	hours/pore	4.2 for first 18 pv, 8 thereafter	4.2 for 139-235 pv	
	volume		2 for 235-313 pv	
Direction of Flow		up	ир	
Water put through	L	44	62	
	# pore volumes	110	311	
Run Time	days	34	77	

pv = pore volume

* mix contained 28 g Apatite OneKrush

Table 2. Analytical Methods.

Analyte	Method	Laboratory*
Alkalinity	SM 2320B	Enthalpy
Anions	EPA 300.0	Enthalpy
Dissolved Oxygen/ORP/pH	Probe	PRIMA
Hydraulic conductivity	ASTM5084	Gulf Shore
Metals	EPA 6020	Enthalpy

* Enthalpy Analytical (Orange, CA), Gulf Shore Construction Services (Rancho Cordova, CA)



3.0 RESULTS and DISCUSSION

Tables in this section contain data from subcontracted analytical laboratories.Complete analytical reports are provided in Appendix B.

3.1 Untreated Soil and Groundwater

Results of the characterization of untreated soil and groundwater are shown in **Table 3**. Groundwater received on August 9, 2024 contained 250 μ g/L total cadmium, of which 240 μ g/L was dissolved cadmium. Groundwater was toxic, with dissolved oxygen at 8.2 mg/L and ORP at 310 mV. Hydraulic conductivity of the soil was 6.82E-03 cm/sec decreased to 4.07E-03 when mixed with 3wt% of Apatite II One Krush.

Analyte	Units	Soil	Soil+3wt% Apatite II One Krush	Groundwater (August 9, 2024)
Cadium				
Total	μg/L	n.m.	n.m.	250
Dissolved	μg/L	n.m.	n.m.	240
Other Parameters				
Alkalinity, total	mg/L CaCO3	n.a.	n.a.	64
Hydraulic conductivity	cm/sec	6.82E-03	4.07E-03	n.a.
Dissolved oxygen	mg/L	n.a.	n.a.	8.2
Nitrate	mg/L-N	n.m.	n.m.	2.4
ORP	mV	n.m.	n.m.	310
рН		n.m.	n.m.	6.42
Sulfate	mg/L	n.m.	n.m.	25

Table 3. Cadmium and Other Parameters in Untreated Soil and Groundwater

n.a. = not applicable. n.m. = not measured



3.2 Isotherm Tests

The results of the isotherm tests are shown in **Table 4** and presented graphically in **Figure 3**. The data are difficult to interpret. Normally, increasing the amount of an adsorbent will decrease the amount of an analyte in water, but in this study, the concentration of dissolved cadmium was nearly constant when the amount of Apatite II was 10-50 g/L, then increased by up to a factor of 10 when the amount of Apatite was 75-100 g/L. These results are probably due to biological activity that formed volatile fatty acids or other chelating compounds. At the end of the 3-day equilibration period, foam was present in the samples and the groundwater changed from clear and colorless to cloudy orange. The amount of Apatite. These changes were most likely due to biological activity.

Test	# Reps	GW Volume	Actual Apatite Added		Cd in Water	Cd on Apatite
		mL	g	g/L	μg/L	µg/g
BO	А	150	0	0	570	
во	В	150	0	0	560	
B1	А	150	1.52	10.1	6.4	368
BI	В	150	1.54	10.3	8.2	362
B2	А	150	3.70	24.7	13	149
BZ	В	150	3.75	25.0	11	148
50	А	150	7.61	50.7	7.0	73
B3B	В	150	7.51	50.1	8.2	74
D 4	А	150	11.25	75.0	87	42
B4	В	150	11.27	75.1	84	43
	А	150	15.10	101	110	30
B5	В	150	15.38	103	140	28
	C*	150	15.27	102	46	34

Table 4. Isotherm Test Conditions and Results.

* Replicate "C" was performed later to confirm the A and B results.



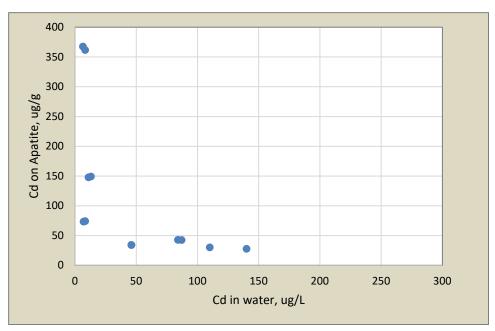


Figure 3. Plot of Aqueous Cadmium versus Sorbed Cadmium.

3.3 Preliminary Tests – Uncrushed Apatite II

The results of the preliminary tests are presented in **Table 5**. The 10-minute and 30-minute HRT tests behaved similarly; total Cd decreased from 550 μ g/L in the influent to 100 μ g/L in the effluent. Increasing the HRT to 60 minutes resulted in a total Cd effluent concentration of 17 μ g/L.

Test	Mass Apatie	Pore volume	Flowrate	HRT	Dissolved Cd	Total Cd
	g	mL	mL/min	min	μg/L	μg/L
Influent	-	-	-	-	470	550
10	77.7	256	25	10	96	100
30	77.5	256	8.4	30	93	100
60	77.2	256	4.0	64	14	17

Table 5. Preliminary Column Results.



3.4 Cd Removal – Uncrushed Apatite II

The results of the Cd removal test using uncrushed Apatite II are presented in **Table 6**. Uncrushed Apatite II reduced concentrations of cadmium, but did not completely remove it from water. Influent total cadmium ranged from 460 to 550 μ g/L. Total cadmium in effluent increased through the first 26 pore volumes, then remained relatively steady for the remainder of the 110 pore volume test. Total cadmium in effluent was 14 μ g/L at 5 pore volumes, increased to 200 μ g/L by 26 pore volumes, then varied between 68 and 180 μ g/L for the remainder of the study. Increasing the HRT from 4 hours to 8 hours did not consistently improve the degree of removal, though a much longer HRT might be effective. (The pore spaces in the bed were relatively large, potentially enabling some water to pass through the column without contacting a piece of Apatite II. See **Figure 2**, which shows uncrushed Apatite in a preliminary column; the packing of the Cd Removal column was similar.) The mass of Cd removed in this test was approximately 19 mg, which is equivalent to 0.13 mg Cd/g uncrushed Apatite II. It is likely that uncrushed Apatite II can sequester more Cd, but that a longer HRT would be needed to further reduce the Cd concentration in groundwater.

Apatite II completely removed nitrate throughout the study and reduced pH by about 1 pH unit – from about 7.8 to 6.8. Sulfate was not significantly affected for the first 35 pore volumes, but began to be partially removed by 53 pore volumes. ORP was low and often negative, indicating that reducing conditions were present in the column.

3.5 Cd Removal – Apatite II One Krush/Sand

3.5.1 Water Results

The results of the Cd removal test using Apatite II One Krush are presented in **Table 7**. Total Cd concentrations were below 2 μ g/L throughout the column test, even when the HRT decreased from 8.1 hours to 2.1 hours. This is equivalent to over 99% removal. The mass of total Cd removed was 27 mg, indicating that Apatite II One Krush mixed with site soil can sequester at least 0.97 mg Cd/g Apatite.

Reducing conditions were established within the column. Nitrate concentrations decreased from about 4.3 mg/L-N in the influent to 0.06 mg/L-N when the HRT was 8.1 hours, but to only 2.5 mg/L-N when the HRT was 2.1 hours. Sulfate decreased from



about 15 mg/L to under 4 mg/L with an 8-hour HRT, but was not removed when the HRT was 4.2 hours or less. Dissolved oxygen decreased by up to 3-7 mg/L, pH decreased by about 1 pH unit (from about 8 to 7), and ORP was negative.

Cd and ORP in the influent container slowly decreased over the course of the column test. Cd decreased from 620 mg/L at the start of the test to 210 mg/L by the end of the test, while ORP decreased from 317 mV to -131 mV. The reason for these changes is unknow. Settling of solids is unlikely since total and dissolved Cd were similar, and biological activity seems unlikely since dissolved oxygen, nitrate, sulfate did not change.

3.5.2 Post-Treatment Bed Characterization and Observations

Once the Apatite II One Krush test was complete, the column was dismantled and the soil analyzed in triplicate for total phosphorous, then observed to determine if it was visually possible to identify Apatite II One Krush. The total phosphorous results are shown in **Table 8**. Total phosphorous ranged from 1,600 to 2,300 mg/kg. PRIMA's staff was not able to identify particles of Apatite II One Krush in the bed material upon visual inspection, even using a magnifying glass – the Apatite II One Krush was too similar to the background soil (see **Figures 1** and **4**).



- - - -

Cummulative	HRT		admium, g/L	Cadn	nium Rem	oved*	Nitrate,	mg/L-N	Sulfate	e, mg/L	ORP	, mV	р	н
Pore Volumes	hrs	Influent	Effluent	%	mg	mg/g Apatite	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
0														
5	4.2	550	14	97	1.1	0.008	2.5	< 0.1	25	39	238	165	7.55	6.92
10	4.2	-	51	91	2.1	0.015	-	< 0.1	-	28	-	98	-	6.87
16	4.2	520	120	77	3.1	0.022	-	< 0.1 H	-	27		-67		6.86
26	4.2	-	200	62	4.5	0.031	-	< 0.1	-	30	-	-67	-	6.66
35	4.2	500	140	72	6.0	0.042	2.4 H	< 0.1	24	26	257	38	7.82	6.86
47	4.2	-	130	74	8.0	0.056	-	< 0.1	-	19	-	-17	-	6.82
53	4.2	-	180	64	9.0	0.063	-	0.09 J	-	9.5	-	-179	-	6.78
58	4.2	-	180	64	9.8	0.068	-	-	-	-	-	-33	-	7.02
68	8.0	-	140	72	11	0.079	-	-	-	-	-	-25	-	6.66
77	8.0	470	130	72	13	0.090	-	-		-	256	-124	7.81	6.8
88	8.0	-	76	84	15	0.11	-	-	-	-	-	1	-	6.85
95	8.0	-	110	77	16	0.11	-	< 0.1	-	13	-	-17	-	6.84
110	8.0	460	68	85	19	0.13	2.2	< 0.1	24	15	225	-58	7.83	697

Table 6. Cd Removal – Uncrushed Apatite II.

* When calculating the amount of cadmium removed, if influent was not analyzed for a given time point, the influent concentration was assumed to be equal to the previous influent concentration. "mg" and "mg/g Apatite" are cummulative.

" - " = not measured

H = analyzed out of hold time



Cummulative	HRT	Disso Cadmiu			dmium, g/L	Total Cadmium Removed*			
Pore Volumes	hrs	Influent	Effluent	Influent	Effluent	%	mg	mg/g Apatite	
0	8.1								
11	8.1	620	0.44 J	560	1.2	99.8	1.2	0.04	
31	8.1	620	0.36 J	570	1.7	99.7	3.5	0.13	
55	8.1	570	< 0.55	570	1.3	99.8	6.2	0.22	
69	10.4	540	0.20 J	580	1.0	99.8	7.9	0.28	
87	10.4	550	0.52 J	540	1.4	99.7	9.8	0.35	
119	9.3	490	0.26 J	500	1.0 J	99.8	13	0.46	
137	9.3	500	0.71 J	520	1.2	99.8	15	0.53	
143	4.2	500	< 0.39	510	0.44 J	99.9	15	0.55	
188	4.2	460	< 0.39	490	0.50 J	99.9	20	0.71	
222	4.2	400	<0.39	380	0.55 J	99.9	22	0.80	
279	2.1	290	1.0	280	1.7	99.4	26	0.92	
311	2.1	210	1.3	220	1.5	99.3	27	0.97	

Table 7. Cd Removal – 3wt% Apatite II One Krush.

* Calculations based on on Total Cadmium results. "mg" and "mg/g Apatite" are cummulative.

J = etimated value

n.m. = not measured



Cummulative	HRT	Nitrate,	mg/L-N	Sulfate	e, mg/L		d oxygen, g/L	ORP	, mV	р	н
Pore Volumes	hrs	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
0	8.1										
11	8.1	n.m.	n.m.	n.m.	n.m.	8.04	1.18	317	-6	6.6	6.5
31	8.1	n.m.	n.m.	n.m.	n.m.	7.83	n.m.	308	-31	7.1	6.7
55	8.1	4.3	0.06 J	15	2.2	8.88	2.78	265	99	7.6	6.8
69	10.4	4.2	< 0.06	14	3.8	8.5	1.7	229	29	7.7	6.9
87	10.4	n.m.	n.m.	n.m.	n.m.	8.4	4.4	194	-16	7.8	6.9
119	9.3	n.m.	n.m.	n.m.	n.m.	8.2	3.5	92	-74	7.9	6.9
137	9.3	n.m.	n.m.	n.m.	n.m.	8.37	4.9	63	-86	7.9	7.1
143	4.2	4.2	1.5	14	16	8.39	3.33	-97	-95	7.9	7.1
188	4.2	4.2	0.78	14	15	8.36	4.19	-51	-127	7.9	7.2
222	4.2	4.3	1.1	15	16	8.25	5.24	-74	-123	7.9	7.2
279	2.1	4.3	2.5	15	16	8.23	5.85	-114	-111	8.0	7.3
311	2.1	n.m.	n.m.	n.m.	n.m.	7.88	4.11	-131	-127	8.0	7.1

Table 7-continued. Cd Removal – 3wt% Apatite II One Krush.

* Calculations based on on Total Cadmium results. "mg" and "mg/g Apatite" are cummulative.

J = etimated value

n.m. = not measured



Analuta	Unite		Repl	icate	
Analyte	Units	Α	В	С	Average
Total Phosphorus	mg/kg	1,700	1,600	2,300	1,867

Table 8. Post-Treatment Characterization of Soil/Apatite II One Krush Mix.



Figure 4. Soil/3% Apatite II One Krush Post-Treatment.



4.0 SUMMARY and CONCLUSIONS

Laboratory testing demonstrated that Apatite II could reduce Cd concentrations in groundwater, though the Apatite II One Krush was more effective than uncrushed material. Uncrushed Apatite II reduced concentrations by 68-85% of Cd, but 68-200 μ g/L Cd was still present in the groundwater. Doubling HRT from 4 hours to 8 hours did not have much effect. A much longer HRT may improve the effectiveness of uncrushed Apatite II, but PRIMA recommends additional testing to confirm this. In contrast, site soil mixed with 3wt% Apatite II One Krush reduced Cd in groundwater by over 99%, with less than 2 μ g/L Cd present throughout the 311 pore volume study, even when the HRT was 2.1 hours. The improved removal is presumably due to the greater surface area of the crushed material.

Both uncrushed Apatite II and Apatite II One Krush reduced nitrate and sulfate concentrations given an HRT of 4 to 8 hours, and decreased pH by 1 pH unit.

Based on the results of this study, PRIMA recommends that Apatite II One Krush be considered for use at this site.



APPENDIX A (Chains of Custody)



5070 Robert J Mathews Parkway, Suite 300 El Dorado Hills, CA 95762 916-939-7300 www.primaenvironmental.com

Sample Receipt Summary

Client/Company: EA Project: DZ45			
	Yes	No	N/A
Custody seals intact?			X
Chain of custody Present? If no, list number of samples and Sample ID	×	D	
ce present?	×		
If no what is to magneture?			
If no, what is temperature? Samples in good condition? If no, explain:	X	Ц	

If no, explain: No sample ID on containers

Do sample IDs on containers match IDs on COC?

Other Comments:

X



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Questions Answered.			_					_			Page _/_ of
Company: <u>EA</u> Phone:	y will liams		est	H.C.	om		F	Project Na Project Nu FAT Sampler	mber	160	Fasteners 2515 Carey
				_		-		Signature			1
SAMPLE ID	Date	Time				lysis or Pr	oposa	I Descript	ion/Date	-	Comments
			Matrix	# Containers	Ozus Fastener Gench - Scale						3 blue Igloo Coolers
MW-13A-CS-08082024	8824	10:05	W	6	X						
		10 00		~							
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	Company					Date	8/91	24	Compan	V PR	IMA
	Printed Nar	ne				Time	11	9		-	indy Schreier
	Signature						~ 11	1	Signatur		Sch

Matrix key: S - soil/sediment; W - water; OT - other

le containers received - no sx ID on containers

1 1



5070 Robert J Mathews Parkway, Suite 300 El Dorado Hills, CA 95762 916-939-7300 www.primaenvironmental.com

Sample Receipt Summary

Date/Time: -	11/12/2024 1 cooler @ 09	1.33 3 coo	ler @	0942
Client/Company:	EA			
Project: -	D745			
		Yes	No	N/A
Custody seals intac		×		
Chain of custody Pi If no, list number	resent? of samples and Sample ID	A		
lce present? If no, what is tem	nerature?	×		
Samples in good co If no, explain:		×		
Do sample IDs on c If no, explain:	ontainers match IDs on COC?	¥		

Other Comments:



5070 Robert J. Mathews Parkway, Suite 300 • El Dorado Hills, CA 95762

1

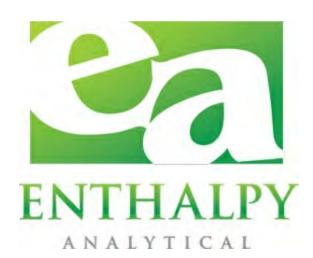
(916) 939-7300 · www.primaenvironmental.com

Questions Answered.									Page of			
	lary William A Engineer: 5-565-65 Villiams@ Bac			-			Project N Project N TAT Sampler Signature	umber <u>1</u>	215 Fasterer 202515			
SAMPLE ID	Date	Time			An	alysis or Pro	posal Descrip	otion/Date	Comments			
			Matrix	# Containers	Column Study							
152033-MW-13A-111124	24 11-1-2024	1058	~	8	X				Scarburgtur Colum sundy			
Special Instructions		D.1.										
opecial instructions	Company		quish			Data /	1-11-2024	Company	Received by:			
Printed Name Thomas Signature Mullin Relinquished				Rot			1845	Company Printed Nar Signature	ne			
				ed by:	3	-		1	Received by:			
	Company Drinted Mar						11/11/2024	Company				
	Signature	Printed Name				Time	6942	Printed Nar	Printed Name Bottney Bingaman			
	loignature							Signature	Brittness Bingaman			

Matrix key: S - soil/sediment; W - water; OT - other



APPENDIX B (Subcontracted Analytical Reports)



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

enthalpy.com

Lab Job Number	: 514940
Report Level	: 11
Report Date	: 08/30/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:



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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	514940
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	08/28/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS UNT GW	514940-001	08/27/24 10:30	Water
EA-DZUS UNT GW (F)	514940-002	08/27/24 10:30	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job 514940 Number: Location: EA-DZUS Date Received: 08/28/24

This data package contains sample and QC results for two water samples, requested for the above referenced project on 08/28/24. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

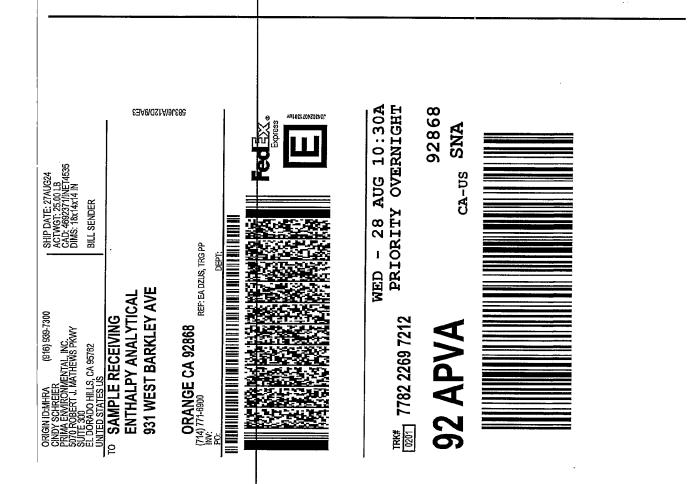
Alkalinity (SM2320B):

No analytical problems were encountered.

IRO) Í LE																	-	8-28-24 Jo;15 DATE/TIME	DATE/TIME	DATE/TIME
	Page_1of_1.	tody # :	Analytical Request										 	 			-	Abarry CA 8		
	_	Chain of Custody #	Analy					(u	vî, Fe, îv √lossib	.) eleteM muimbeO muimbeO	×	×					 RECEIVED BY:	1700 Adr FedEx		
	≻		-				ate)	eilua		VOCs (82 Alkalinty anions (n	×						RE	られてい DATE/TIME	DATE/TIME	
	AIN OF CUSTODY	ζ	2		eier	eier ironmental Inc	00	ronmental.com	Chemical Preservative	None NaOH HNO ₃ H₂SO₄ HCI	× ×	×) BY:	PRIMA		L
			5	LOGIN#	er: Cindv Schreier		Telephone: 916-939-7300	Email: data@primaenvironmental.com	Matrix	Water Soil # of Containers	×	×						Mitchigun	\$	
	CHA			C&T L(Sampler:	Report	Teleph	Email: <u>c</u>	ing	Time		10:30							<u></u>	
							\cap		Sampling	Date	08/27/24	08/27/24					 SAMPLE RECEIPT	□ Intact □ Cold □ On Ice □ Ambient		
	Enthalpy Analytical LLC	931 West Barkley Ave	Orange, CA 92868	(714) <i>77</i> 1-6900 Phone	<u>.</u>	lame: EA-DZUS mat: Rot Level: □ II	ime: DRUSH			Sample ID.	EA-DZUS Unt GW	EA-DZUS Unt GW (F)						Sample "EA-DZUS Unt GW (F)" has been field filtered.		
	Entha	931 Wes	Urange,	(714) 77	Project No:	Project Name: EDD Format:	Turnarou			No.							Notes:	Sample has beer	÷	

!

SAMPLE RECEIPT CHECKLIST		-0	R
Section 1: General Info			
Date Received: 8-28-24 WO# 514940 Client: Prima Environmental		ENT	HALPY
Section 2: Shipping / Custody Are custody se	eals presen	t? 🗆 Ye	s 🗹 No
Custody seals intact on arrival? 🗹 N/A 🗂 Yes 🗔 No 🖾 On cooler / box 🗔 On samples			
Shipping Info:			
Section 3a: Condition / Packaging	nicrobiolog	39) (PM 1	notified)
Date Opened <u>8-28-24</u> By (initials) <u>TLK</u> Type of ice used : 🗹 Wet 🗆 Blue/Ge	l 🗆 Nor	e	
Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature)	res)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: IRO		CF: <u>-0.6</u>	
Cooler Temp (°C) #1: <u>5.2 /4.6 </u> #2:/ #3:/ #4:/ #5:/ #6:	/	-	
Section 3b: Microbiology Samples	mples sub	mitted (skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples	-	mitted	skip 3c)
	Other		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	<u> </u>		
2) Is the sampler's name present on the CoC?	<u> </u>		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			X
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		Salarina and salaring
8) Was sufficient sample volume / mass received for the analyses requested?	<u> </u>		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?			X
Section 5: Explanations / Comments	🗖 PM n	otified	
		ta	<u> </u>
			<u></u>
	45		
Date Logged <u>8-28-24</u> By (print) <u>ABD</u> (sign) <u>Adv</u>			
Date Labeled 8-28-24 By (print) (sign)			



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipmant.

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Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 514940 Location: EA-DZUS Date Received: 08/28/24

Sample ID: EA-DZUS UN		Lab ID: 514940-001 Matrix: Water					Collected: 08/27/24 10:30				
514940-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis	
Method: EPA 300.0 Prep Method: METHOD											
Nitrogen, Nitrate	2.4		mg/L	0.10	0.06	1	348867	08/28/24 15:02	08/28/24 18:35	PAS	
Sulfate	25		mg/L	1.0	0.34	1	348867	08/28/24 15:02	08/28/24 18:35	PAS	
Method: EPA 6020 Prep Method: EPA 3015A											
Cadmium	250		ug/L	10	1.1	10	348942	08/29/24	08/30/24	KAM	
Method: SM2320B Prep Method: METHOD											
Alkalinity, Bicarbonate, as CaCO3	64		mg/L	5.0		1	348894	08/28/24	08/28/24	WWC	
Alkalinity, Carbonate, as CaCO3	ND		mg/L	5.0		1	348894	08/28/24	08/28/24	WWC	
Alkalinity, Hydroxide, as CaCO3	ND		mg/L	5.0		1	348894	08/28/24	08/28/24	WWC	
Alkalinity, Total as CaCO3	64		mg/L	5.0		1	348894	08/28/24	08/28/24	WWC	
Sample ID: EA-DZUS UN	Lab ID: 514940-002 Matrix: Filtrate					Collected: 08/27/24 10:30					
514940-002 Analyte Resu	ılt Qua	l Ur	nits	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist	

1.0

0.11

ug/L

348893

1

08/28/24

08/28/24

DXC

Method: EPA 6020 Prep Method: METHOD

Cadmium

240

ND Not Detected



Type: Blank				QC11818			atch: 3		
Matrix: Drinking Wa	iter		Method:	EPA 300.	0	Prep Me	thod: N	METHOD	
QC1181874 Analyte	Resu	It Qua	l Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	N	D	mg/L	0.10	0.06	08/28/24 15:02	C	8/28/24 16:4	1
Sulfate	Ν	D	mg/L	1.0	0.34	08/28/24 15:02	C	08/28/24 16:4	1
Type: Lab Control S	Comple		l ah	ID: QC11	01075		Batch:	240067	
Matrix: Drinking Wat	•			od: EPA (METHOD	
QC1181875 Analyte		Resu		Spiked	Units	Recovery	Qual	Limi	
Nitrogen, Nitrate		4.62		4.518	mg/L	102%		90-11	
Sulfate		25.	17	25.00	mg/L	101%		90-1	10
Type:	Matrix Spi	ke		Lab ID:	QC1181878	1	Batch	: 348867	
Matrix (Source ID):	Water (51	4940-001)	Method:	EPA 300.0	Prep	Method	METHOD)
QC1181878 Analyte Nitrogen, Nitrate	Res 11.	ult 53	Source Sample Result 2.382	Spiked 9.036	Units mg/L	101%	Qual	Limits 80-120	DF 1
Sulfate	73.	88	24.72	50.00	mg/L	98%		80-120	1
Type: Matrix (Source ID):	Matrix Spik Water (514)	-	ate		D: QC118187 d: EPA 300.0			1: 348867 1: METHOE	n l
QC1181879 Analyte Nitrogen, Nitrate Sulfate	Result 11.76 75.19	Source Sample Result 2.382 24.72	Spikec 9.036 50.00	6 mg/L	Recovery 104% 101%	Qual Limit 80-12	s R 0	RPD Lim 2 20 2 20	DF 1
Type: Blank Matrix: Water	_		QC11821 EPA 6020			Batch: Prep Method:	348942 EPA 3		
QC1182112 Analyte		Result	Qual	Units	RL	MDL Prepar		Analyze	
Cadmium		ND		ug/L	1.0	0.11 08/29/2	24	08/30/24	4
	Sample		Lab ID): QC118			tch: 34		
Type: Lab Control S	- anipio				200				
Type: Lab Control S Matrix: Water	sampio		Method	1: EPA 60)20	Prep Meth	Od: EP	A 3015A	
		Res 101	ult	1: EPA 60 Spiked 100.0	Units ug/L	Prep Meth Recovery 102%	od: EP Qual	2A 3015A Limi 80-12	

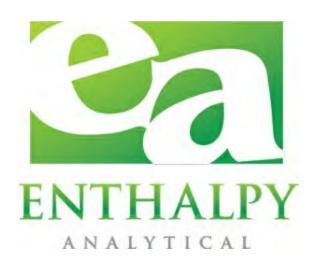


Type: Matrix (Source ID):					QC1182114 EPA 6020		E Prep Me	Batch:			
QC1182114 Analyte	Res	So	ource Imple lesult	Spiked	Units	Rec		Qual	Lin		DF
Cadmium	100).5	ND	100.0	ug/L		101%		75-	125	1
Туре:	Matrix Spik	e Duplicate	e	Lab ID:	: QC118211	5		Batch:	3489	942	
Matrix (Source ID):	Water (5147	792-001)		Method:	EPA 6020		Prep M	ethod:	EPA	3015A	
QC1182115 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	v Qua	l Limit	s F	RPD	RPD Lim	DF
Cadmium	99.47	ND	100.0	ug/L	99%		75-12		1	21	1
				- 3				-			
Туре:	Matrix Spil	ke		Lab ID:	QC1182116		E	Batch:	3489	42	
Matrix (Source ID):	Water (514	792-002)	Μ	lethod:	EPA 6020		Prep Me	thod:	EPA	3015A	
QC1182116 Analyte Cadmium	Res 97.	Sa ult R	ource imple iesult ND	Spiked 100.0	Units ug/L	Rec	covery (97%	Qual	Lim 75-1		DF
Type: Matrix (Source ID):	Matrix Spik Water (5147	•	e	Lab ID:	: QC1182117 : EPA 6020	7	Prep M	Batch:		942 3015A	
QC1182117 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	y Qua				RPD	DF
Cadmium	98.50	ND	100.0	ug/L	98%		75-12		1	21	1
Type: Blank		Lab ID:	QC11819	941			Bat	ch: 34	8893		
Matrix: Filtrate		Method:	EPA 602	0		P	rep Metho	od: M	etho	D	
QC1181941 Analyte		Result	Qual	Units	RL	MDL	Prepar			Analyzed	
Cadmium		ND		ug/L	1.0	0.11	08/28/2	24		08/28/24	
Type: Lab Control Matrix: Filtrate	Sample): QC11 I: EPA 6			I Prep Me	Batch: ethod:			
QC1181942 Analyte		Result		piked	Units	F	Recovery	Qua	l	Limits	
Cadmium		98.04		100.0	ug/L		98%			80-120	J



	Type:	•				: QC118					348893	
Matrix (S	Source ID):	Filtrate (5	14940-002	2)	Method	: EPA 60)20		Prep Me	thod:	METHO	כ
QC1181943 Analy Cadmium	yte		S	Source Sample Result 237.7	Spiked 100.0	Units ug/L		Recover 819	-	I	Limits 75-125	DF 10
Matrix (Se	Type: ource ID):	Matrix Spi Filtrate (5	-		Lab II Metho	D: QC11 d: EPA 6					348893 METHO	D
QC1181944 Analy Cadmium	yte	Result 321.8	Source Sample Result 237.7	Spiked 100.0	Units ug/L	Reco	very 84%	Qual	Limits 75-125	RP	RPD D Lim 1 21	DF 10
Туре:	Blank		Lab ID:	QC11819	46				Batch:	3488	94	
Matrix:	Water		Method:	SM2320B				Prep M	Method:	MET	HOD	
QC1181946 Analy	yte			Result	Qual	Units	RL	MDL	Prepa	red	Analy	zed
Alkalinity, Bicarbo	nate, as Ca	CO3		ND		mg/L	2.0		08/28	/24	08/28/	/24
Alkalinity, Carbona	ate, as CaCO	D3		ND		mg/L	5.0		08/28	/24	08/28/	24
Alkalinity, Hydroxie	de, as CaCC)3		ND		mg/L	5.0		08/28	/24	08/28/	24
Alkalinity, Total as	CaCO3			ND		mg/L	2.0		08/28	/24	08/28/	24
Type: La	ab Control	Sample		Lab II	D: QC11	81947			Bat	ch: 3	48894	
Matrix: W	/ater			Method	d: SM23	20B		Pre	ep Meth	od: N	IETHOD	
QC1181947 Analy	-		I	Result	Spiked	Units		Rec	overy	Qual	Lim	its
Alkalinity, Total as	CaCO3			1,029	1000	mg/L			103%		90-1	10
Matrix (S	Type: Source ID):	•	•		Lab ID: Method:	QC1181 SM2320					348894 METHOI)
,	,					Source Sample					RPD	
QC1181948 Analy Alkalinity, Bicarbo	•	<u>`</u>		Res 64.		Result 63.69			al	RPD	Lim 20	DF
Alkalinity, Bicarbon					68 VD	63.69 ND	mg/L			2	20	1
Alkalinity, Carbona Alkalinity, Hydroxid						ND	mg/L				20	1
Alkalinity, Total as		10		64.		63.69	mg/L			2	20	1
Airainity, Total as	Caulos			04.	00	03.09	mg/L			2	20	

ND Not Detected



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

enthalpy.com

Lab Job Number	: 516796
Report Level	: 11
Report Date	: 09/26/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	516796
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	09/25/24
Pkwy		00,20,21
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS GW SPIKE	516796-001	09/23/24 15:45	Water
EA-DZUS GW SPIKE (F)	516796-002	09/23/24 15:45	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier

Lab Job 516796 Number: Location: EA-DZUS Date Received: 09/25/24

This data package contains sample and QC results for two water samples, requested for the above referenced project on 09/25/24. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

C
б
C
5

Page1of1 Chain of Custody # :	Analytical Request					(ə)			Alkalinty Metals (Cr, Cadmium muimbsC	2							RECEIVED BY:	A 1745 Fedex DATENTIME	E JETH CO 9/26/24 1026 DATE/TIME	
CHAIN OF CUSTODY		C&T LOGIN #	Sampler: Cindy Schreier	Report To: Cindy Schreier	Company : PRIMA Environmental, Inc.	Telephone: 916-939-7300	Email: data@primaenvironmental.com	Matrix	VOCs (826	X	15:45 x 1 1 x 1						IPT RELINQUISHED BY:	ant Level 24 -	DATE/TIME	
Enthalpy Analytical LLC 931 West Barkley Ave	Orange, CA 92868 (714) 771-6900 Phone		Project No:	Project Name: EA-DZUS	EDD Format: Rpt Level: 0 II 0 III 0 IV 0	ime: □RUSH24thr TAT _ □ Standard	IШ	Sampling	Lab No. Date	09/23/24	EA-DZUS GW Spike (F) 09/23/24 15						Notes: SAMPLE RECEIPT	Sample "EA-DZUS GW Spike (F)"		



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SAMPLE RECEIPT CHECKLIST		-
Section 1: General Info Date Received: <u>9/25/24</u> WO# <u>5/6796</u> Client: <u>PRIMA ENVIRONMENTAL</u> Section 2: Shipping / Custody Are custody seal		ENTHALPY
Date Received: <u>1/25/24</u> WO# <u>510770</u> Client: <u>Relate Control from</u>		
Section 2: Shipping / Custody Are custody seal	s present?L	No کر Yes ل
Section 2: Shipping / Custody Are custody seal Custody seals intact on arrival? IN/A I Yes I No I On cooler / box I On samples		
Simpping mo.		(DM notified)
Section 3a: Condition / Packaging		PW nouneu)
Date Opened <u>9/25/24</u> By (initials) <u>VC</u> Type of ice used : DWet DBlue/Gel		
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures	1	
ロ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun:/P.01	ст.	-0.6
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: <u> P.01</u>	LCF: /	
Cooler Temp (°C) #1:3.2 / 2.6 #2: /#3:/ #4:#5:/ #5:#6:		ted (skin 3h)
	pies submit	ted (akib 20)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.		
Adequate headspace for microbiology analysis. Section 3c: Air Samples D No air sam	nies submit	ted (skin 3c)
Section 3c: Air Samples I to air sam		
Section 4: Containers / Labels / Samples	r	NO N/A
1) Were custody papers present, filled properly, and legible?		LEFE-
2) Is the sampler's name present on the CoC?	/	
3) Were containers received in good condition (unbroken / unopened / uncompromised)?		
 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 		
5) Were all of, and only, the correct samples received?	/	
6) Are sample labels present, legible, and in agreement with the CoC?		
7) Does the container count match the CoC?		
8) Was sufficient sample volume / mass received for the analyses requested?		
9) Were samples received in proper containers for the analyses requested?		
10) Were samples received with > 1/2 holding time remaining?		
11) Are samples properly preserved as indicated by CoC / labels?		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?		
13) Are VOA vials free from headspace/bubbles > 6mm?		
Section 5: Explanations / Comments	🗋 PM notil	riea
		and a - 2
Date Logged <u>9/25/24</u> By (print) <u>BERKELEY</u> (sign)		
Date Labeled 9/25/24 By (print) JETH Co (sign)	<u></u>	



Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 516796 Location: EA-DZUS Date Received: 09/25/24

Sample ID: EA-DZ	US GW SI	PIKE			ID: 510 rix: Wa		001	Collected	d: 09/23/24 1	5:45
516796-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	550		ug/L	50	4.8	50	351137	09/25/24	09/25/24	DXC
Sample ID: EA-DZU	IS GW SF	PIKE (F)			ab ID: १ atrix: I			Collecte	d: 09/23/24 1	15:45
516796-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: METHOD										

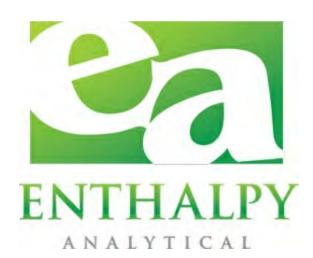


Type: Blank	l ah ID	: QC1189	503			Batch: 351	137	
Matrix: Water		: EPA 602			Prep M	ethod: EPA		
QC1189503 Analyte	Result	Qual	Units	RL	MDL	Prepared	Anal	yzed
Cadmium	ND		ug/L	1.0	0.095	09/25/24	09/2	5/24
Type: Lab Control	Sample	Lab				Batch:		
Matrix: Water		Metho	od: EPA 6	020	Pre	p Method:	EPA 3015/	4
QC1189504 Analyte	Re	sult	Spiked	Units	Rec	overy Qu	ial L	imits
Cadmium	1(01.7	100.0	ug/L		102%	8	0-120
Type: Lab Control S	Sample Duplicate			QC1189505	_		: 351137	
Matrix: Water			Method:	EPA 6020	F	Prep Method	: EPA 301	5A
								RPD
QC1189505 Analyte	Result	Spiked	Units	Recovery		Limits	RPD	Lim
Cadmium	101.8	100.0	ug/L	102%)	80-120	0	20
Type: Blank		ID: QC11			Dre	Batch:		
Matrix: Filtrate	Metho	od: EPA (0020		Pre	p Method:		
QC1189567 Analyte	Result	Qual	Units	RL	MDL	Prepared	Anal	yzed
Cadmium	ND		ug/L	1.0	0.095	09/25/24	09/2	5/24
Type: Lab Control	Sample	-	b ID: QC1				n: 351163	
Matrix: Filtrate		Met	hod: EPA	6020		Prep Method	: METHO	D
QC1189568 Analyte	Be	sult	Spiked	Units	Rec	overy Qu	ial I	imits
Cadmium	-	04.3	100.0	ug/L	net	104%	-	0-120
							0	
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Туре:	Matrix Spike		Lab II	D: QC118956	9	Bat	ch: 35116	
	Matrix Spike Filtrate (516575-0	03)		D: QC1189569 d: EPA 6020	9	Bat Prep Meth	ch: 35116	3
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	•			d: EPA 6020	9 Recov	Prep Meth	ch: 35116	iod
Matrix (Source ID):	Filtrate (516575-0	Source Sample	Method	d: EPA 6020 Units	Recov	Prep Meth	ch: 35116 od: METH	i3 IOD Di
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Type: Blank Matrix: Filtrate		D: QC118 d: EPA 6			Pr	Batch: 3 ep Method:	
QC1189571 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cadmium	ND		ug/L	1.0	0.095	09/25/24	09/25/24

ND Not Detected



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

enthalpy.com

Lab Job Number	:	517148
Report Level	:	II
Report Date	:	10/03/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	517148
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/01/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-B0-A	517148-001	09/30/24 15:30	Water
EA-B0-B	517148-002	09/30/24 15:30	Water
EA-B1-A	517148-003	09/30/24 15:30	Water
EA-B2-B	517148-004	09/30/24 15:30	Water
EA-B3-A	517148-005	09/30/24 15:30	Water
EA-B3-B	517148-006	09/30/24 15:30	Water
EA-B4-A	517148-007	09/30/24 15:30	Water
EA-B4-B	517148-008	09/30/24 15:30	Water
EA-B5-A	517148-009	09/30/24 15:30	Water
EA-B5-B	517148-010	09/30/24 15:30	Water
EA-B1-B	517148-011	09/30/24 15:30	Water
EA-B2-A	517148-012	09/30/24 15:30	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier

Lab Job 517148 Number: Location: EA-DZUS Date Received: 10/01/24

This data package contains sample and QC results for twelve water samples, requested for the above referenced project on 10/01/24. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

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West Barkley Ave | Inge, CA 92868
4) 771-6900 Phone | | iect No: | ject Name: EA-DZUS | | | | | | | EA-B0-A

 | EA-B0-B | EA-B1-A

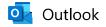
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After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 7. Fold the printed page slong the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

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			JON.
Section 1: General Info			
Date Received: 10 124 WO# 517 148 Client: PRIMA	······	ENI	HALPY
Section 2: Shipping / Custody Are custo	dy seals prese	nt? 🗆 Ye	s 🖉 No
Custody seals intact on arrival? 🗔 N/A 🗂 Yes 🔲 No 🖾 On cooler / box 🗖 On samp	les		
Shipping Info:			
Section 3a: Condition / Packaging 🔲 Outside 0.0 - 6.0°C (0.0 - 10.0°C		gy) (PM	notified
Date Opened 10/01/24_ By (initials)_JKC Type of ice used : 📈 Wet 🗆 Blue	e/Gel □Noi	ne	
\square Samples received on ice directly from the field; cooling process had begun. (if checked, skip tempe	ratures)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
f no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun	: IR.11	CF: 10.1	
Cooler Temp (°C) #1: <u>2.%</u> / <u>2.7</u> #2:#3:/#4:/#5:;			
Section 3b: Microbiology Samples	gy samples sub	mitted	(skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			a
	air samples sul	omitted	(skip 3c)
🗌 1.4L Canisters 🔲 6L Canisters 🔲 Tedlar Bags 🔲 MCE Cassettes 🔲 Sorbent Tubes	Other		T
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?			
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?			
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			
5) Were all of, and only, the correct samples received?		/	
6) Are sample labels present, legible, and in agreement with the CoC?	/		
7) Does the container count match the CoC?			
B) Was sufficient sample volume / mass received for the analyses requested?	/		
9) Were samples received in proper containers for the analyses requested?	/		
10) Were samples received with > 1/2 holding time remaining?			
11) Are samples properly preserved as indicated by CoC / labels?			
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			STREET IS NOT
13) Are VOA vials free from headspace/bubbles > 6mm?			
Section 5: Explanations / Comments		notified	
4.5: TWO EXTRA CONTAINERS WERE RECEIVED LABELED 'EA-B1-B',	AND "EA-B	2-A" I	SUT
ARE NOT MARKED ON THE COC			
4.7: SEE 4.5			
			<u> </u>



Fw: [External] - RE: Discrepancies - Prima LR #517148

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

Date Tue 10/1/2024 12:12 PM

To Jeth Co <JethCo@enthalpy.com>; Sample Receiving Group Orange <srloginorange@enthalpy.com>

Cc Berkeley SR <031_login@montrose-env.com>

Please see below. Thank you!

John Goyette Service Center Manager Enthalpy Analytical 2323 Fifth St, Berkeley, CA | US Pacific Time Office: +1-510-204-2233 | Mobile +1-510-381-7850 john.goyette@enthalpy.com | enthalpy.com Terms & Conditions

From: Cindy Schreier <cschreier@primaenvironmental.com>
Sent: Tuesday, October 1, 2024 11:23 AM
To: John Goyette <john.goyette@enthalpy.com>
Cc: data@primaenvironmental.com <data@primaenvironmental.com>; cschreier@primaenvironmental.com
<cschreier@primaenvironmental.com>
Subject: [External] - RE: Discrepancies - Prima LR #517148

Please analyze the extra samples for Cd. They should have been on the COC. Same date/times.

Cindy

Cindy G. Schreier, Ph.D. (she/her) President and Chief Scientist, 5070 Robert J. Mathews Pkwy, Suite 300 El Dorado Hills, CA 95762; T: 916-939-7300; <u>www.primaenvironmental.com</u>

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From: John Goyette <john.goyette@enthalpy.com>
Sent: Tuesday, October 1, 2024 11:26 AM
To: Cindy Schreier <cschreier@primaenvironmental.com>
Cc: data@primaenvironmental.com
Subject: Fw: Discrepancies - Prima LR #517148

This is for EZ-DZUS. Please advise!

Enthalpy Analytical 2323 Fifth St, Berkeley, CA | US Pacific Time Office: +1-510-204-2233 | Mobile +1-510-381-7850 john.goyette@enthalpy.com | enthalpy.com Terms & Conditions

From: Jeth Co <JethCo@enthalpy.com>
Sent: Tuesday, October 1, 2024 10:38 AM
To: John Goyette <john.goyette@enthalpy.com>
Cc: Sample Receiving Group Orange <<u>srloginorange@enthalpy.com</u>>; Berkeley SR <<u>031_login@montroseenv.com</u>>
Subject: Discrepancies - Prima LR #517148

Hi John,

The samples for Prima have arrived today. We received two extra containers for the listed LR labeled, "EA-B1-B" and "EA-B2-A" but are not logged in LIMs nor are they written in the COC. I have logged them into LIMs as sample -011 and -012 and placed them under hold until further notice.

Please let us know how you would like to proceed or if you have any questions, Thank you,

Jeth Co Lab Technician Enthalpy Analytical Orange, CA | US Pacific Time Office: +1-714-771-6900 x 10310

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Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 517148 Location: EA-DZUS Date Received: 10/01/24

Sample ID: EA-I	B0-A		Lab ID:	5171	48-001			Collected:	09/30/24 15:30	
			Matrix:	Filtra	te					
517148-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD										
Cadmium	570		ug/L	50	4.8	50	351623	10/01/24	10/01/24	DXC
Sample ID: EA-I	B0-B		Lab ID:					Collected:	09/30/24 15:30	
			Matrix:	Filtra	te					
517148-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD										
Cadmium	560		ug/L	50	4.8	50	351623	10/01/24	10/01/24	DXC
								• • • • • •		
Sample ID: EA-B1-A			Lab ID: Matrix:	-				Collected:	09/30/24 15:30	
517148-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD										
Cadmium	6.4		ug/L	5.0	0.48	5	351623	10/01/24	10/01/24	DXC
				F4 74	10.004				00/00/04 45 00	
Sample ID: EA-I	В2-В		Lab ID: Matrix:					Collected:	09/30/24 15:30	
517148-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020									,	
Prep Method: METHOD Cadmium	11		ug/L	5.0	0.48	5	351623	10/01/24	10/02/24	DXC
Sample ID: EA-I	B3-A		Lab ID:					Collected:	09/30/24 15:30	
			Matrix:	Filtra	te					
517148-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD										
Cadmium	7.0		ug/L	5.0	0.48		351623	10/01/24	10/01/24	DXC



Sample ID: EA-I	В3-В		Lab ID: Matrix:					Collected:	09/30/24 15:30	
517148-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020								•		
Prep Method: METHOD Cadmium	8.2		ug/L	5.0	0.48	5	351623	10/01/24	10/01/24	DXC
Sample ID: EA-I	B4-A		Lab ID: Matrix:	51714 Filtra	18-007 te			Collected:	09/30/24 15:30	
517148-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	87		ug/L	50	4.8	50	351623	10/01/24	10/01/24	DXC
Comple ID: EA I				E 1 7 1	10.000			Collected	00/00/04 15-00	
Sample ID: EA-I	В4-В		Lab ID: Matrix:	Filtra				Collected:	09/30/24 15:30	
517149.009 Amoluto	Result	Qual	Units	RL	MDL	DF	Patah	Droporod	Analyzad	Chemist
517148-008 Analyte Method: EPA 6020	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Prep Method: METHOD Cadmium	84		ug/l	50	4.8	50	351623	10/01/24	10/01/24	DXC
Caumum	04		ug/L	50	4.0	50	331023	10/01/24	10/01/24	DXC
Sample ID: EA-F	B5-A		Lab ID: Matrix:	51714 Filtra				Collected:	09/30/24 15:30	
Sample ID: EA-F	B5-A Result	Qual		-		DF	Batch	Collected: Prepared	09/30/24 15:30 Analyzed	Chemist
517148-009 Analyte Method: EPA 6020		Qual	Matrix:	Filtra	te	DF	Batch			Chemist
517148-009 Analyte		Qual	Matrix:	Filtra	te	DF	Batch 351623			Chemist DXC
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD	Result 110	Qual	Matrix: Units	Filtra RL 50 51714	4.8 48-010			Prepared	Analyzed	
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium	Result 110 B5-B		Matrix: Units ug/L Lab ID: Matrix:	Filtra RL 50 51714 Filtra	4.8 4.8 48-010 te	50	351623	Prepared 10/01/24 Collected:	Analyzed 10/01/24 09/30/24 15:30	DXC
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-H 517148-010 Analyte Method: EPA 6020	Result 110	Qual	Matrix: Units ug/L Lab ID:	Filtra RL 50 51714	4.8 48-010			Prepared	Analyzed 10/01/24	
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-I 517148-010 Analyte	Result 110 B5-B		Matrix: Units ug/L Lab ID: Matrix:	Filtra RL 50 51714 Filtra	4.8 4.8 48-010 te	50	351623	Prepared 10/01/24 Collected:	Analyzed 10/01/24 09/30/24 15:30	DXC
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-H 517148-010 Analyte Method: EPA 6020 Prep Method: METHOD	Result 110 B5-B Result 140		Matrix: Units ug/L Lab ID: Matrix: Units	Filtra RL 50 51714 Filtra RL 50	te MDL 4.8 4.8 48-010 te MDL 4.8	50 DF	351623 Batch	Prepared 10/01/24 Collected: Prepared 10/01/24	Analyzed 10/01/24 09/30/24 15:30 Analyzed 10/01/24	DXC Chemist
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-t 517148-010 Analyte Method: EPA 6020 Prep Method: METHOD	Result 110 B5-B Result 140		Matrix: Units ug/L Lab ID: Matrix: Units	Filtra RL 50 51714 Filtra RL 50 50	te MDL 4.8 4.8 48-010 te MDL 4.8 4.8	50 DF	351623 Batch	Prepared 10/01/24 Collected: Prepared 10/01/24	Analyzed 10/01/24 09/30/24 15:30 Analyzed	DXC Chemist
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-E 517148-010 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-E Sample ID: EA-E	Result 110 B5-B Result 140		Matrix: Units ug/L Lab ID: Matrix: Units ug/L	Filtra RL 50 51714 Filtra RL 50 50	te MDL 4.8 4.8 48-010 te MDL 4.8 4.8	50 DF	351623 Batch	Prepared 10/01/24 Collected: Prepared 10/01/24	Analyzed 10/01/24 09/30/24 15:30 Analyzed 10/01/24	DXC Chemist
517148-009 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium Sample ID: EA-B 517148-010 Analyte Method: EPA 6020 Prep Method: METHOD Cadmium	Result 110 B5-B Result 140 B1-B	Qual	Matrix: Units ug/L Lab ID: Matrix: ug/L ug/L	Filtra RL 50 51714 Filtra 50 51714 Filtra	te MDL 4.8 4.8 48-010 te MDL 4.8 4.8 4.8	50 DF 50	351623 Batch 351623	Prepared 10/01/24 Collected: Prepared 10/01/24 Collected:	Analyzed 10/01/24 09/30/24 15:30 Analyzed 10/01/24 09/30/24 15:30	DXC Chemist DXC



Sample ID: EA-I	Lab ID: 517148-012 Matrix: Filtrate				Collected: 09/30/24 15:30					
517148-012 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	13		ug/L	5.0	0.48	5	351623	10/01/24	10/02/24	DXC



Type: Blank Matrix: Filtrate		ID: QC1 od: EPA			Batch: 351623 Prep Method: METHOD						
QC1191205 Analyte	Result	Qual	Units	RL I	MDL	Prepared	Analy	zed			
Cadmium	ND		ug/L	1.0 0	.095	10/01/24	10/01	/24			
Type: Lab Control Sample	9	La	b ID: QC11	91207		Batch:	351623				
Matrix: Filtrate		Met	thod: EPA	6020		Prep Method:	METHOD)			
QC1191207 Analyte	Re	sult	Spiked	Units	Red	covery Qual	Li	mits			
Cadmium	1	09.5	100.0	ug/L		109%	80	-120			
Type: Lab Control Sample I	Duplicate		Lab ID:	QC1191208		Batch	: 351623				
Matrix: Filtrate			Method:	EPA 6020		Prep Method	: METHO	D			
QC1191208 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPC Lim			
Cadmium	104.6	100.0	ug/L	105%		80-120	5	20			

ND Not Detected



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Lab Job Number	: 517690	
Report Level	: 11	
Report Date	: 10/09/2024	-

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	517690
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/08/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-B5-C	517690-001	10/07/24 15:58	Water
EA-DI APATITE	517690-002	10/07/24 15:58	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 517690 Location: EA-DZUS Date Received: 10/08/24

- This data package contains sample and QC results for two water samples, requested for the above referenced project on 10/08/24. The samples were received cold and intact.
- This report was revised and reissued to include a reanalysis at less of a dilution.

Metals (EPA 6020):

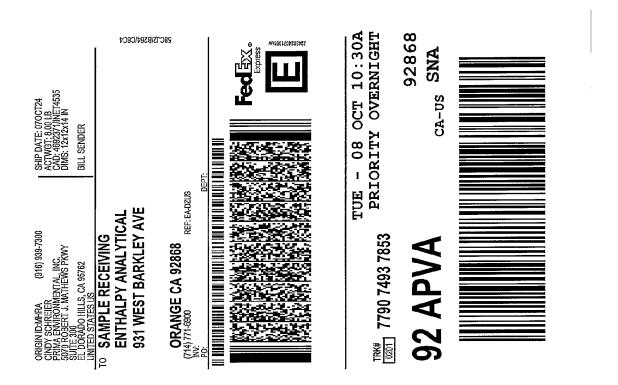
No analytical problems were encountered.

Enth 931 W	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF	N N	Ο		CUSTODY	S	2		≻		ਹੇ	ain c	Page _ Chain of Custody #	Page . stody #	 		1			
Orang(714) 7	Orange, CA 92868 (714) 771-6900 Phone		U,	51690	50	\cap									Analytical Request	rtica	Rec	sant				\square
			C&T L	C&T LOGIN # _	#																	
Project No:	t No:		Sampler:		Cindy Schreier	schrei	er															
Project	Project Name: EA-DZUS		Report To:		Cindy Schreier	schrei	er															
EDD Format:				Company : PRIMA Environmental,	RIMA	Envir	onme	ental,	lnc.													
Turnar	Turnaround Time: 🗆 RUSH2&hr TAT 🗅 Standard	AT_ 🛛 Standard	Telept	Telephone: 916-939-7300	16-93	9-730	0					(əte)										
			Email:	Email: <u>data@primaenvironmental.com</u>	prima	enviro	nme	<u>ntal.</u>	E)			ilus										
		Sampling	6	Matrix	×		Chemical Preservative	Chemical reservativ	ə		(09	itrate. s										
Lab No.	Sample ID.	Date	Time	Vater Soil	to #	Containers	[⊅] OS ^z H	HO [₽] N ⁸ ONH	Anone		VOCs (82	anions (n Alkalinty	D) alsteM	Cadmium								
	EA-B5-C	10/07/24	15:58	X		1		×						×								
	EA-DI Apatite	10/07/24	15:58	×		-		×						×								
											_							_				
						_											-					
										!	-	_									\neg	
								-		,l.,	+		\downarrow		+	\square		_			+	
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								_	_	1											\uparrow	
								-							+			_				_
							1_	+			+	+	_		+						+	
									_													
Notes:		SAMPLE REC	ECEIPT	RELIN	RELINQUISHED BY:	HED	B≺:					R	Ш Ш	NEL N	RECEIVED BY:					i.	-	
Sampl has be	Samples have been field filtered has been field filtered.	□ Intact □ Cold □ On Ice □ Ambient	d bient ∠	S	3				<u> </u> त	レート/24 ~ DATE/TIME	モ/24 〜 DATE/TIME		รุเวริ		Fully	JE.	.*				ATE	DATE/TIME
							• . • .			DATI	DATE/TIME		3	R	The nell This hells	701	S Re	47	101	28/2	18127 ک DATE	1 0/ 8137 1 000 DATE/TIME
										DATI	DATE/TIME	ш									ATE	DATE/TIME

.

SAMPLE RECEIPT CHECKLIST		- <u>e</u>	27
Section 1: General Info			
Date Received: 10/8/24 WO# 517690 Client: Prima Env.		ENT	HALPY
Section 2: Shipping / Custody Are custody se	als preser	nt? 🗆 Ye	s 🗆 No
Custody seals intact on arrival? 🗹 N/A 🗖 Yes 🗇 No 🗇 On cooler / box 🗇 On samples			
Shipping Info: Walk-in			
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.0°C for m	icrobiolo	gy) (PM	notified)
Date Opened $10/8/24$ By (initials) TLK Type of ice used : \square Wet \square Blue/Gel	🗀 Nor	ne	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	es)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: IRO1		CF: <u>-0.6</u>	
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: IR01 Cooler Temp (°C) #1: 4.7 / 4.1 #2:/ #3:/ #4:/ #5:/ #6: Section 3b: Microbiology Samples ■ No microbiology samples	_/	-	
Section 3b: Microbiology Samples	nples sub	mitted (skip 3b)
Within temp range 0.0 - 10.0 C or received on ice directly from field.			
Adequate headspace for microbiology analysis.	. <u> </u>		
Section 3c: Air Samples	-	mitted	(skip 3c)
	ther		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) is the sampler's name present on the CoC?	X		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	<u> </u>		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			X
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?			X
Section 5: Explanations / Comments	🗆 PM n	otified	
	············		
Date Logged 10/8/24 By (print) MAY (sign)			
Date Labeled 10/8/24 By (print) GCK (sign) Adard for Ga	SK		
	1		

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Analysis Results for 517690

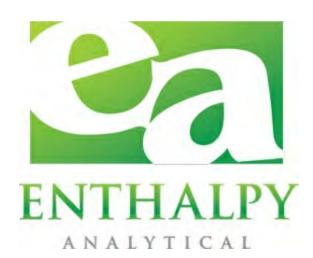
Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 517690 Location: EA-DZUS Date Received: 10/08/24

Sample ID: EA-	B5-C		Lab ID: Matrix:					Collected:	10/07/24 15:58	
517690-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	46		ug/L	1.0	0.095	1	352399	10/09/24	10/09/24	DXC
Sample ID: EA-DI	APATITE				517690 Filtrate			Collected	d: 10/07/24 15:5	8
517690-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	ND		ug/L	1.0	0.095	1	352272	10/08/24	10/08/24	DXC



Type: Blank Matrix: Filtrate		D: QC11 d: EPA			Pre	Batch: 3 ep Method: M		
QC1193424 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analy	/zed
Cadmium	ND		ug/L	1.0	0.095	10/08/24	10/08	3/24
Type: Lab Control Sampl Matrix: Filtrate	e		b ID: QC11 hod: EPA (Batch Prep Method:	: 352272 METHOI)
QC1193426 Analyte	Res	ult	Spiked	Units	Re	covery Qua	al Li	mits
Cadmium	10	4.2	100.0	ug/L		104%	80)-120
Type: Lab Control Sample Matrix: Filtrate	Duplicate			QC1193427 EPA 6020	7	Batc Prep Metho	h: 352272 d: METH(
QC1193427 Analyte	Result	Spiked	Units	Recover	y Qual	Limits	RPD	RPD Lim
Cadmium	103.6	100.0	ug/L	1049	%	80-120	1	20
Type: Blank Matrix: Filtrate		D: QC11 d: EPA			Pre	Batch: 3 ep Method: M		
QC1193844 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analy	
Cadmium	ND		ug/L	1.0	0.095	10/09/24	10/09	9/24
Type: Lab Control Sampl Matrix: Filtrate	e	-	b ID: QC11 hod: EPA (Batch Prep Method:	: 352399 METHOI)
QC1193845 Analyte	Res	sult	Spiked 100.0	Units	Re	covery Qua		mits)-120
Cadmium	10	2.3	100.0	ug/L		102%	80)-120
Type: Lab Control Sample Matrix: Filtrate	Duplicate		Lab ID: Method:	QC1193846 EPA 6020	;	Batc Prep Metho	h: 352399 d: METH(
QC1193846 Analyte	Result	Spiked	Units	Recover	y Qual	Limits	RPD	RPD Lim
Cadmium	102.7	100.0	ug/L	1039	%	80-120	0	20



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Lab Job Number	:	518257
Report Level	:	II
Report Date	:	10/18/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	518257
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/16/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-PRELIM IN	518257-001	10/11/24 19:35	Water
EA-PRELIM IN (F)	518257-002	10/11/24 19:35	Water
EA-PRELIM 10MIN	518257-003	10/11/24 13:53	Water
EA-PRELIM 10MIN (F)	518257-004	10/11/24 13:53	Water
EA-PRELIM 30MIN	518257-005	10/11/24 19:20	Water
EA-PRELIM 30MIN (F)	518257-006	10/11/24 19:20	Water
EA-PRELIM 60MIN	518257-007	10/14/24 19:45	Water
EA-PRELIM 60MIN (F)	518257-008	10/14/24 19:45	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 518257 Location: EA-DZUS Date Received: 10/16/24

This data package contains sample and QC results for eight water samples, requested for the above referenced project on 10/16/24. The samples were received cold and intact.

Metals (EPA 6020) Water:

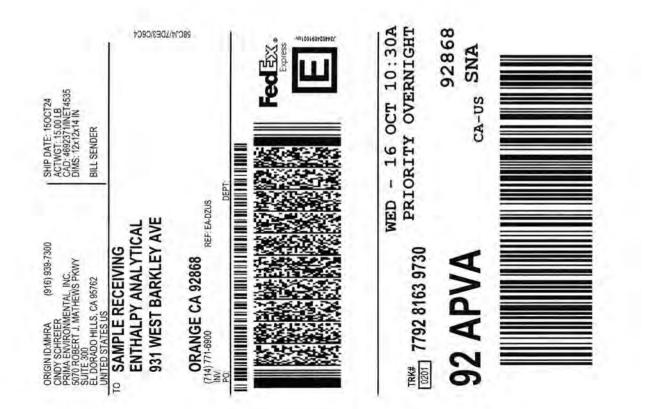
No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

CHAIN OF CUSTODY Chain of Custody #: 5/5357 Analytical Request		Cindy Schreier	Cindy Schreier	nmental, Inc.		(0) rate, su	# of Containers HCI H2SO4 HUO3 NaOH NaOH None (826 Alkalinty anions (ni Mone Metals (Cr Cadmium Cadmium	×									RELINQUISHED BY: RECEIVED BY:	. 10/15/24 ~	tright the kent 10/1013	
Ϋ́	C&T LOGIN#	Sampler:		≥ □		Sampling	Date Time	10/11/24 19:35	10/11/24 19:35	10/11/24 13:53	10/11/24 13:53	10/11/24 19:20		19:4	10/14/24 19:45		SAMPLE RECEIPT	□ Intact □ Cold □ On Ice □ Ambient		
Enthalpy Analytical LLC 931 West Barkley Ave Orange, CA 92868	(/14) //1-6900 Phone	Project No:	EA-DZU	Rp	Turnaround Time: DRUSH 48hr TA		Lab No.	EA-Prelim In	EA-Prelim In (F)	EA-Prelim 10min	EA-Prelim 10min (F)	EA-Prelim 30min	EA-Prelim 30min (F)	EA-Prelim 60min	EA-Prelim 60min (F)		Notes:	Samples with "(F)" designation have been field filtered.		

SAMPLE RECE	IPT CHECKLIST	100
Section 1: General Info		
Date Received: 10/16/24 WO# 518257 Cl	lient: Prima Environmental	ENTHALI
Section 2: Shipping / Custody	Are custody seals preser	nt? 🗆 Yes 🗆 M
Custody seals intact on arrival? N/A Yes No	On cooler / box 🛛 On samples	
Shipping Info:		
	□ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiolog	COMPANY AND
	ype of ice used : 🗹 Wet 🗆 Blue/Gel 🗆 Nor	ie
□ Samples received on ice directly from the field; cooling process I		
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if che		CF:-0.5
If no cooler: Observed/Adjusted Temp (°C):/ Cooler Temp (°C) #1: <u>5.4 /4.9 </u> #2:/ #3:/		LF: <u>-0.0</u>
Section 3b: Microbiology Samples	No microbiology samples sub	mitted (skin 3)
Within temp range 0.0 - 10.0°C or received on ice directly from f		milled (skip si
Adequate headspace for microbiology analysis.		
Section 3c: Air Samples	No air samples sub	mitted (skip 3
	Cassettes 🗖 Sorbent Tubes 🗖 Other	
Section 4: Containers / Labels / Samples	YES	NO N/A
1) Were custody papers present, filled properly, and legible?	x	
2) Is the sampler's name present on the CoC?	x	
3) Were containers received in good condition (unbroken / unopen	ed / uncompromised)? x	
4) Were the samples bagged? (required for microbiology samples; r	recommended for soil samples) x	
5) Were all of, and only, the correct samples received?	x	
6) Are sample labels present, legible, and in agreement with the Co	C?	x
7) Does the container count match the CoC?	x	
8) Was sufficient sample volume / mass received for the analyses re	equested? x	
9) Were samples received in proper containers for the analyses req	uested? x	
10) Were samples received with > 1/2 holding time remaining?	x	
11) Are samples properly preserved as indicated by CoC / labels?	x	
12) Unpreserved VOAs received - If necessary, was the hold time ch	anged in LIMS?	x
13) Are VOA vials free from headspace/bubbles > 6mm?		x
Section 5: Explanations / Comments	PM n	otified
Samples 1-6 have bottle labels "EA-DZ-Prelim". DZ does not appear	on the COC	
Date Logged 10/16/24 By (print) Tris Kelly	(sign) Tre Mr	
Date Labeled 10/16/24 By (print) Tris Kelly	(sign) Iny NW	



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Analysis Results for 518257

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 518257 Location: EA-DZUS Date Received: 10/16/24

Sample ID: EA-PI	RELIM IN			ib ID: atrix:	518257- Water	-001		Collected:	10/11/24 19:	35
518257-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020										
Prep Method: EPA 3015A Cadmium	550		ug/L	10	0.95	10	353019	10/16/24	10/16/24	KAM
			9/							
Sample ID: EA-PR	RELIM IN ((F)		Lab ID	: 5182	57-002	2	Collected	: 10/11/24 19	:35
				Matrix	: Filtra	te				
518257-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD										
Cadmium	470		ug/L	10	2.6	10	353005	10/16/24	10/16/24	DXC
Sample ID: EA-PR	ELIM 10N	/IN			D: 5182 c: Wate		3	Collected	: 10/11/24 13	:53
518257-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	100		ug/L	1.0	0.095	1	353019	10/16/24	10/16/24	KAM
Sample ID: EA-PRI	ELIM 10M	IN (F)			ID: 51 trix: Fi		004	Collected	d: 10/11/24 1	3:53
518257-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: METHOD	nooun	duu.	0			2.	Buton	Toparoa	7.1101/200	
Cadmium	96		ug/L	1.0	0.26	1	353005	10/16/24	10/16/24	DXC
Sample ID: EA-PR	ELIM 30N	/IN			D: 5182 c: Wate		95	Collected	: 10/11/24 19	:20
5 18257-005 Analyte Method: EPA 6020	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Prep Method: EPA 3015A						·				
Cadmium	100		ug/L	1.0	0.095	1	353019	10/16/24	10/16/24	KAM

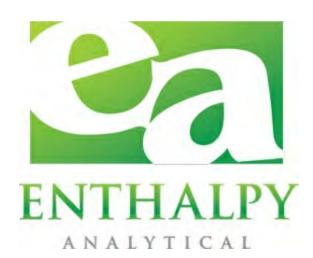


Analysis Results for 518257

Sample ID: EA-PRI	ELIM 30M	IN (F)			ID: 51 rix: Fil		006	Collected	d: 10/11/24 1	9:20
518257-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	93		ug/L	1.0	0.26	1	353005	10/16/24	10/16/24	DXC
Sample ID: EA-PR	ELIM 60N	1IN): 5182 x: Wate		17	Collected	: 10/14/24 19	:45
518257-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	17		ug/L	1.0	0.095	1	353019	10/16/24	10/16/24	KAM
Sample ID: EA-PRI	ELIM 60M	IN (F)				8257- Itrate	008	Collected	d: 10/14/24 1	9:45
518257-008 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: METHOD										
Cadmium	14		ug/L	1.0	0.26	1	353005	10/16/24	10/16/24	DXC



Type: Blank Matrix: Water		QC11959 EPA 6020			Pren M	Batch: 3 lethod:			
	Method.		•		пери				
QC1195904 Analyte	Result	Qual	Units	RL	MDL	Prepare	d	Analyz	zed
Cadmium	ND		ug/L	1.0	0.095	10/16/24	1	10/16/	/24
Turney Lab Osutus		1	00110	5005		Data	h. 05(2010	
Type: Lab Contro Matrix: Water	i Sample		D: QC119 d: EPA 60		Pr	Batc ep Metho	h: 353 d· FP		
Matrix. Water		Wethou		120			u. Li		
QC1195905 Analyte	Res	ult	Spiked	Units	Re	covery	Qual	Lin	nits
Cadmium	99.	73	100.0	ug/L		100%		80-	120
-				001105000					
Type Matrix (Source ID)	: Matrix Spike : Water (518239-003	`	Lab ID: Method:	QC1195908		ва Prep Meth		353019 EDA 2015	^
	. Water (516259-005)	methou.	EFA 0020			100. 1	LFA 3013	A
		Source							
QC1195908 Analyte	Result	Sample Result	Spiked	Units	Reco	verv Qu	ıal	Limits	DF
Cadmium	101.4	ND	100.0	ug/L		01%		75-125	10
Туре:	Matrix Spike Duplic	ate	Lab ID:	: QC1195909	Ð	B	atch:	353019	
Matrix (Source ID):	Water (518239-003)		Method	EPA 6020		Prep Met	hod:	EPA 3015	5A
	Source								
QC1195909 Analyte	Sample Result Result		d Units	Recovery	Qual	Limits	RI	RPD PD Lim	DF
Cadmium	98.04 ND	100.0) ug/L	98%)	75-125		3 21	10
Turney Diamic	l ah l	D. 00110				Datak		005	
Type: Blank Matrix: Filtrate	Lab I Metho	D: QC119 d: EPA 6			Pre	Batch p Methoo		8005 THOD	
	inctito		520						
QC1195856 Analyte	Result	Qual	Units	RL	MDL	Prepare	d	Analy	zed
Cadmium	ND		ug/L	1.0	0.26	10/16/24	1	10/16/	/24
Type: Lab Contro	L Comple	Lab				D/	atch	353005	
Type. Lab Contro				USS57					
Matrix: Filtrate	n Sample		ID: QC11 od: EPA 6					METHOD	
Matrix: Filtrate						Prep Met		METHOD	
QC1195857 Analyte	Res	Meth	od: EPA 6 Spiked			Prep Met		Lin	nits
		Meth	od: EPA 6	6020		Prep Met	hod:	Lin	
QC1195857 Analyte	- Res 91.	Meth	od: EPA 6 Spiked 100.0	6020 Units ug/L	Re	Prep Met covery 91%	hod: Qual	Lir 80-	nits
QC1195857 Analyte Cadmium Type: Lab Control	Res	Meth	od: EPA 6 Spiked 100.0 Lab ID:	6020 Units ug/L QC1195858	Re	Prep Meti covery 91%	hod: Qual Batch:	Lir 80- 353005	nits 120
QC1195857 Analyte	- Res 91.	Meth	od: EPA 6 Spiked 100.0 Lab ID:	6020 Units ug/L	Re	Prep Meti covery 91%	hod: Qual Batch:	Lir 80-	nits 120
QC1195857 Analyte Cadmium Type: Lab Control Matrix: Filtrate	Res 91. Sample Duplicate	Meth ult 30	od: EPA 6 Spiked 100.0 Lab ID: Method:	6020 Units ug/L QC1195858 EPA 6020	Re	Prep Met covery 91% Prep Me	Qual Qual Batch: ethod:	Lir 80- 353005 METHO	nits 120 D RPD
QC1195857 Analyte Cadmium Type: Lab Control	- Res 91.	Meth	od: EPA 6 Spiked 100.0 Lab ID:	6020 Units ug/L QC1195858	Re	Prep Met covery 91% Prep Me	Qual Batch: ethod:	Lir 80- 353005	nits 120 D



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

enthalpy.com

Lab Job Number	: 518815
Report Level	: 11
Report Date	: 10/31/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	518815
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/24/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-INFL-1	518815-001	10/23/24 17:05	Water
EA-EFF-1	518815-002	10/23/24 12:50	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 518815 Location: EA-DZUS Date Received: 10/24/24

This data package contains sample and QC results for two water samples, requested for the above referenced project on 10/24/24. The samples were received cold and intact.

Metals (EPA 6020):

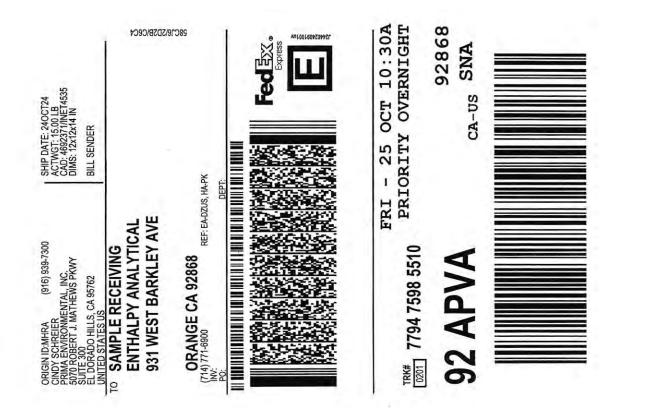
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

- Responses exceeding the instrument's linear range were observed for nitrogen, nitrate in the MS/MSD for batch 353732; affected data was qualified with "E".
- No other analytical problems were encountered.

Entl 931 M	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF CUSTODY	A	Z	Ö		2	S	Ĕ		≿			Chai	n of (Dusto	Page Chain of Custody # :		_of1_	-		
Orang (714)	Orange, CA 92868 (714) 771-6900 Phone															An	alyt	Analytical Request	sequ	est	-		
			C&T LOGIN # 518815	90-	# Z	518	XI	2	2														
Project No:	xt No:		Sampler:	ler:	Cin	Cindy Schreier	hrei	<u>n</u>															
Projec	Project Name: EA-DZUS		Report To: Cindy Schreier	t To	Cin	dy Sc	hrei	Ŀ											_				
EDDF	EDD Format: Rpt Level: DI		IV Company : PRIMA Environmental, Inc.	any	: PR	IMA E	invir	onm	enta	l, Inc				_							_		
Turnai	Turnaround Time: DRUSH	□ Standard	Telephone: 916-939-7300	hone	: 916	-939-	730	0						(əti	-	_					_		
			Email: data@primaenvironmental.com	dat	a@p	imae	nvird	nme	ental	con				-	(ui							-	
		Sampling	bu	Σ	Matrix			Chemical	Chemical	al		(0			Le, W								
No.	Sample ID.	Date	Time	Water	lioS	10 #	HCI Sontainers	[⊅] OS ^z H	[©] ONH	HOPN	anoN	928) sOO/	Alkalinty	iin) enoim	Aetals (Cr, muimbe								
	EA-Infi-1	10/22/24	17:05	×		-	-		×	f	×		-	-	-			+	-		+		
	EA-Eff-1	10/23/24	12:50	×		-			×	Ê	×			×	×			-			-		
				-																			
							-						T			24h	E	24hr TAT for Cd	orc	P			
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					\ddagger					++	T T		T	s	tan	dar	μ	41	ora	standard TAT for anions	s		
																					++		
										+++	TTT			+++	+++	$\left \right $					+++		
Notes:		SAMPLE RECEIPT	CEIPT	RE	ON	RELINQUISHED BY:				-	_					RECEIVED BY-	_ ·	-	-		-		
Sample have be	Samples with "(F)" designation have been field filtered.	□ Intact □ Cold	d bient	61	67	3				10	10/23/24 ~ 1745 Fedlex	THE	<u>C</u>	15	4	6.1	4					DATE/TIME	IME
		3.2 1211 3.3 to.1									DA	DATE/TIME	ЧЧ.	0	F	7	ENT	ENTHALPY		10124124		०१५८ DATE/TIME	IME
											DA	DATE/TIME	Ä									DATE/TIME	IME

SAMPLE RECEIPT CHECKLIST Section 1: General Info		100	6
Date Received: 15/24/24 WO# 518.515 Client: PRIMA		(N)	HALPY
Section 2: Shipping / Custody Are custody sea Custody seals intact on arrival? N/A Yes No On cooler / box On samples Shipping Info:	ils prese	nt? 🗆 Ye	s ØN
Section 3a: Condition / Packaging	icrobiolo	m) (PM	notified
Date Opened <u>1012H1ZH</u> By (initials) <u>4KC</u> Type of ice used : Ø Wet □ Blue/Gel		2 C 8 S 1 C 1 C 1	lotineu
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature			
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)	· ·		
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun:		CF: +0.1	_
Cooler Temp (°C) #1: <u>3.2/3.3</u> #2:/#3:/#4:/#5:/#6:			
Section 3b: Microbiology Samples	nples sub	mitted (skip 3b
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			_
Section 3c: Air Samples 🖉 No air sar	nples sul	omitted (skip 3c
🗖 1.4L Canisters 🦳 6L Canisters 🔲 Tedlar Bags 📄 MCE Cassettes 🗂 Sorbent Tubes 🗂 Ot	her		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	1		
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		
Were the samples bagged? (required for microbiology samples; recommended for soil samples)	/		
5) Were all of, and only, the correct samples received?	/	1	1
6) Are sample labels present, legible, and in agreement with the CoC?	/	1	-
7) Does the container count match the CoC?	+	/	
8) Was sufficient sample volume / mass received for the analyses requested?	1		
9) Were samples received in proper containers for the analyses requested?	/		1
10) Were samples received with > 1/2 holding time remaining?	1		2
11) Are samples properly preserved as indicated by CoC / labels?	1		-
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			1
13) Are VOA vials free from headspace/bubbles > 6mm?	2	17 1	/
Section 5: Explanations / Comments 4.6' TIME MIDSING FROM ONE CONTAINER FOR SAMPLE ID "EA-EFF-1"	D PM r	notified	
H.7 COC CONTAINER COUNT SHOWS & FOR EACH SAMPLE, BUT WE RECEIVED SAMPLE-	TNO	FOR EA	<u><</u>
Date Logged 19/23/29 By (print) Beckeley (sign) (sign) Date Labeled 19/24/29 By (print) Dange (sign)			



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether forms of the mission, unless you declare a higher value, pay an additional charge, document FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, and the instrumented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed inverted value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. decl



Analysis Results for 518815

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 518815 Location: EA-DZUS Date Received: 10/24/24

Sample ID: E	A-INFL-1		L	ab ID:	51881	5-00	1	Collected:	10/23/24 17:05	
			ľ	Matrix:	Water	r				
518815-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	2.5		mg/L	0.10	0.06	1	353732	10/24/24 16:00	10/24/24 20:12	PAS
Sulfate	25		mg/L	1.0	0.34	1	353732	10/24/24 16:00	10/24/24 20:12	PAS
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	550		ug/L	10	2.6	10	353743	10/24/24	10/24/24	SBW
Sample ID: E	A-EFF-1		L	ab ID:	51881	5-002	2	Collected:	10/23/24 12:50	
			N	latrix:	Water					
518815-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	ND		mg/L	0.10	0.06	1	353732	10/24/24 16:00	10/24/24 20:34	PAS
Sulfate	39		mg/L	1.0	0.34	1	353732	10/24/24 16:00	10/24/24 20:34	PAS
Method: EPA 6020										
Prep Method: EPA 3015A										



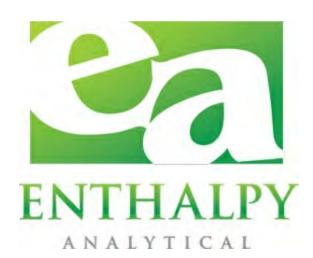
Type: Blank Matrix: Water			QC11982 EPA 300.				atch: 353 hod: ME)	
QC1198247 Analyte	Result	Qual	Units	RL	MDL	Prepared		Ana	lyzed	
Nitrogen, Nitrate	ND		mg/L	0.10		10/24/24 16:00			24 17:09)
Sulfate	ND		mg/L	1.0	0.34	10/24/24 16:00			24 17:09	
Type: Lab Control	l Sample		Lab II				Batch:		-	
Matrix: Water			Metho	d: EPA 3	800.0	Prep	Method:	METH	HOD	
QC1198248 Analyte		Resu	lt S	piked	Units	Recovery	y Qual		Limit	s
Nitrogen, Nitrate		4.70	8	4.518	mg/L	104%	, 0		90-11	0
Sulfate		26.7	1	25.00	mg/L	107%	0		90-11	0
-					001100040		Batal	0.50		_
Type Matrix (Source ID)	•			Lab ID: Method:		Dro	Batch p Method			
	. water (5160	575-003)		wethou:	EFA 300.0	Fie	p metriou			
		5	Source							
			ample			_	- ·			_
QC1198249 Analyte Nitrogen, Nitrate	Resul	-	Result	Spiked	Units	Recovery	Qual	Limi		[
Nitroadan Nitrata	21.85		13.98	9.036	mg/L	87% 91%	E	80-1		
-	00.00					41%		80-1	20	
-	•	Duplica	40.56 ate	50.00 Lab II Method	mg/L D: QC119825 d: EPA 300.0	60	Batcl ep Methoc	n: 35:	3732	1
Sulfate Type: Matrix (Source ID):	Matrix Spike Water (51887	Duplica	ate	Lab II Methoo	D: QC119825	i0) Pre	ep Methoo	n: 35: J: ME	3732 ETHOD RPD	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte	Matrix Spike Water (51887 Result	Duplica 75-003) Source Sample Result	ite Spiked	Lab II Method Units	D: QC119825 d: EPA 300.0 Recovery	i0) Pre Qual Lin	ep Methoo nits R	n: 35: J: ME	3732 ETHOD RPD Lim	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate	Matrix Spike Water (51887 Result 21.85	Duplica 75-003) Source Sample Result 13.98	spiked 9.036	Lab II Method Units mg/L	D: QC119825 d: EPA 300.0 Recovery 87%	i0 Pre Qual Lin E 80-	ep Methoo nits R 120	n: 353 J: ME PD	3732 THOD RPD Lim 20	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate	Matrix Spike Water (51887 Result	Duplica 75-003) Source Sample Result	ite Spiked	Lab II Method Units	D: QC119825 d: EPA 300.0 Recovery	i0 Pre Qual Lin E 80-	ep Methoo nits R	n: 35: J: ME	3732 ETHOD RPD Lim	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51887 8 Result 21.85 86.41	2 Duplica 75-003) Source Sample Result 13.98 40.56	spiked 9.036	Lab II Method Units mg/L mg/L	D: QC119825 d: EPA 300.0 Recovery 87% 92%	i0 Pre Qual Lin E 80-	ep Methoo nits R 120	n: 353 i: ME PD 0	3732 THOD RPD Lim 20 20	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike	e Duplica 75-003) Source Sample Result 13.98 40.56 e	Spiked 9.036 50.00	Lab II Method Units mg/L mg/L Lab ID:	D: QC119825 d: EPA 300.0 Recovery 87%	i0 Pre Qual Lin E 80- 80-	nits R 120 120	n: 353 d: ME aPD 0 : 353	3732 THOD Lim 20 20 3732	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001)	Spiked 9.036 50.00	Lab II Method Units mg/L mg/L Lab ID:	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251	i0 Pre Qual Lin E 80- 80-	nits R 120 120 Batch	n: 353 d: ME aPD 0 : 353	3732 THOD Lim 20 20 3732	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID)	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike : Water (5188	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001)	Source Source Source	Lab II Method Units mg/L mg/L Lab ID: Method:	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0	50 Pre Qual Lin E 80- 80- Pre	nits R 120 120 Batch p Method	n: 353 3: ME 0 1: 353 1: ME	3732 THOD Lim 20 20 3732 THOD	[
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike : Water (5188	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S S t	Spiked 9.036 50.00 Source ample Result	Lab II Method mg/L mg/L Lab ID: Method:	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0	i0 Qual Lin E 80- 80- Pre Recovery	nits R 120 120 Batch	n: 353 d: ME 0 : 353 : ME	3732 THOD Lim 20 20 3732 THOD its	[
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Nitrogen, Nitrate	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike : Water (5188	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S t 9	Source Source Source	Lab II Method Units mg/L mg/L Lab ID: Method:	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0	50 Pre Qual Lin E 80- 80- Pre	nits R 120 120 Batch p Method	n: 353 3: ME 0 1: 353 1: ME	3732 THOD Lim 20 20 3732 THOD its 20	[
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike : Water (5188 Resul 8.909 49.70	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S t 9 0	Spiked 9.036 50.00 Source sample Result ND 2.226	Lab II Method mg/L mg/L Lab ID: Method: 9.036 50.00	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0 Units mg/L mg/L	i0 Qual Lin E 80- 80- Pre Pre <u>Recovery</u> 99% 95%	ep Method nits R 120 120 Batch p Method	n: 353 1: ME 0 1: 353 1: ME Limi 80-1: 80-1:	3732 THOD Lim 20 20 3732 THOD its 20 20 20	[
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike Water (5188 Result 8.909 49.70	Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S t 9 0 Duplica	Spiked 9.036 50.00 Source sample Result ND 2.226	Lab II Method mg/L mg/L Lab ID: Method: 9.036 50.00	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0 Units mg/L mg/L D: QC119825	i0 Qual Lin E 80- 80- 80- Pre Pre <u>Recovery</u> 99% 95%	p Method nits R 120 120 Batch p Method Qual Batcl	n: 353 3: ME 0 0 1: 353 1: ME 80-11 80-11 80-12	3732 THOD Lim 20 20 3732 THOD its 20 20 3732	
Sulfate Type: Matrix (Source ID): Matrix (Source ID): QC1198250 Analyte Vitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Vitrogen, Nitrate Sulfate	Matrix Spike Water (51887 Result 21.85 86.41 : Matrix Spike Water (5188 Result 8.909 49.70	Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S t 9 0 Duplica	Spiked 9.036 50.00 Source sample Result ND 2.226	Lab II Method mg/L mg/L Lab ID: Method: 9.036 50.00	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0 Units mg/L mg/L	i0 Qual Lin E 80- 80- 80- Pre Pre <u>Recovery</u> 99% 95%	ep Method nits R 120 120 Batch p Method	n: 353 3: ME 0 0 1: 353 1: ME 80-11 80-11 80-12	3732 THOD Lim 20 20 3732 THOD its 20 20 3732	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike Water (51887 21.85 86.41 : Matrix Spike Water (5188 49.70 Matrix Spike Water (51884	Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) S t 9 0 Duplica	Spiked 9.036 50.00 Source sample Result ND 2.226	Lab II Method mg/L mg/L Lab ID: Method: 9.036 50.00	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0 Units mg/L mg/L D: QC119825	i0 Qual Lin E 80- 80- 80- Pre Pre <u>Recovery</u> 99% 95% 32 Pre	ep Method nits R 120 120 Batch p Method Qual Batcl ep Method	n: 353 1: ME 0 0 1: 353 1: ME 80-11 80-11 80-11 80-11 80-11 80-11 80-11	3732 THOD Lim 20 20 3732 THOD its 20 20 3732	
Sulfate Type: Matrix (Source ID): QC1198250 Analyte Nitrogen, Nitrate Sulfate Type Matrix (Source ID) QC1198251 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike Water (51887 Result 21.85 86.41 Matrix Spike 8.909 49.70 Matrix Spike Water (51884	e Duplica 75-003) Source Sample Result 13.98 40.56 e 346-001) Source Sample	Source Source Sample Result ND 2.226	Lab II Method mg/L mg/L Lab ID: Method: 9.036 50.00	D: QC119825 d: EPA 300.0 Recovery 87% 92% QC1198251 EPA 300.0 Units mg/L mg/L D: QC119825 d: EPA 300.0	i0 Qual Lin E 80- 80- 80- Pre Pre Recovery 99% 95% 32 Pre Qual Lin	ep Method nits R 120 120 Batch p Method Qual Batcl ep Method	n: 353 1: ME 0 0 1: 353 1: ME 80-11 80-11 80-11 1: 353 1: ME	3732 THOD Lim 20 20 3732 THOD 3732 3732 THOD 8732 20 20 20 20 20 20 20 20 20 2	



Type: Blank Matrix: Water	Lab ID: Method:		-		Prep I	Batch: 353 Method: EP		5 A	
QC1198267 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	ł
Cadmium	ND		ug/L	1.0	0.26	10/24/24		10/24/24	
Type: Lab Control	Sample	Lab ID	: QC119	8268		Batch:	35374	13	
Matrix: Water		Method	: EPA 6	020	Pr	ep Method:	EPA :	3015A	
QC1198268 Analyte	Res	ult	Spiked	Units	Re	ecovery Q	ual	Limit	s
Cadmium	94	.53	100.0	ug/L		95%		80-12	0
Туре:	Matrix Spike		Lab ID:	QC1198269		Batch	n: 353	3743	
Matrix (Source ID):	Water (518846-001) I	Method:	EPA 6020		Prep Method	I: EP	A 3015A	
QC1198269 Analyte	Result	Source Sample Result	Spiked	Units	Reco	verv Qual	L	imits	DF
Cadmium	97.36	ND	100.0	ug/L		97%	7	5-125	1
	Matrix Spike Duplic		Lab ID				h: 35		
Matrix (Source ID):	Water (518846-001)		Method	: EPA 6020		Prep Metho	d: EF	'A 3015A	
QC1198270 Analyte	Source Sample Result Result	; ;	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	95.95 NE	•		96%	Quai	75-125	1	21	1

E Response exceeds instrument's linear

range



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

enthalpy.com

Lab Job Number	:	518955
Report Level	:	II
Report Date	:	11/01/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	518955
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/25/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-EFF-2	518955-001	10/24/24 10:35	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 518955 Location: EA-DZUS Date Received: 10/25/24

This data package contains sample and QC results for one water sample, requested for the above referenced project on 10/25/24. The sample was received cold and intact.

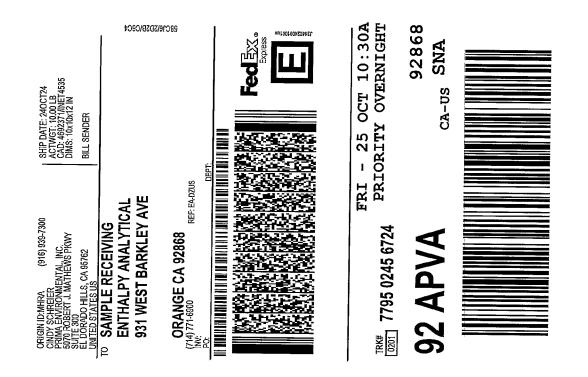
Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

910f1 # ·	Analytical Request																		مص <i>م،</i> ۵/۲ ک/ سیDATE/TIME	DATE/TIME
Page Chain of Custodv #	Analytical						(Əte)	(u	itrate, s , Fe, W	Alkalinty anions (Ci Metals (Ci muimbs Cadmium	x x						RECEIVED BY:	"24/24 1500 Fed EX	IME	IME
CHAIN OF CUSTODY	L 21802C			ler: Cindy Schreier	Report To: Cindy Schreier	Rpt Level: 🗆 II 🗆 III 🗆 IV Company : PRIMA Environmental, Inc.	Telephone: 916-939-7300	Email: <u>data@primaenvironmental.com</u>	Matrix Chemical Deservative	VOCs (82 None H2SO4 H2SO4 H2SO4 H2SO4 HCI H2SO4 HCI HCI HCI HCI	x 2 x x						RELINQUISHED BY:	M. Elicleusen PRIMA DATERTIME	DATE/TIME	DATE/TIME
CH		ļ	CCR	Sampler:	Repo	el:] II] III] V Comp	Standard Telep		Sampling	Date Time	10/24/24 10:35						Щ	□ Intact □ Cold □ On Ice □ Ambient		1012 25/5-2
Enthalpy Analytical LLC 931 West Barkley Ave	Orange, CA 92868	(714) 771-6900 Phone		Project No:	Project Name: EA-DZUS	EDD Format: Rpt Leve	Turnaround Time: 🗆 RUSH		-	Lab No.	EA-Eff-2						Notes:	Sample for Anious		ο. Λ



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 7. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affir it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

SAMPLE RECEIPT CHECKLIST		-	
Section 1: General Info Date Received: 10/25/24 WO# 518955 Client: Prims		ENT	HALPY
Section 2: Shipping / Custody Are custody se	als prese	nt? 🗆 Ye	s No
Custody seals intact on arrival? 🔍 N/A 🗖 Yes 🗇 No 🗇 On cooler / box 🗇 On samples	•		
Shipping Info:			
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.0°C for m	icrobiolo	gy) (PM r	otified)
Date Opened 1025124 By (initials) GCK Type of ice used : Wet Due/Gel	🗆 Nor	ne	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	≘s)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)	,		
If no cooler: Observed/Adjusted Temp (°C): // Thermometer/IR Gun: Image: Cooler Temp (°C) #1:3_5 / 3.0 #2: //#3: /#4: /#5: /#6: Cooler Temp (°C) #1:3_5 / 3.0 #2: /#3: /#4: /#5: /#6:	0	CF: <u>-0.5</u>	
Section 3b: Microbiology Samples	nples sub	 mitted (s	kip 3h)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples 🔍 No air sa	mples sub	mitted (skip 3c)
🗖 1.4L Canisters 🔲 6L Canisters 🗍 Tedlar Bags 📄 MCE Cassettes 🗐 Sorbent Tubes 🗐 O		-	
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	<		
2) Is the sampler's name present on the CoC?			
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	$\overline{\mathbf{N}}$		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)		-	$\overline{}$
5) Were all of, and only, the correct samples received?			
6) Are sample labels present, legible, and in agreement with the CoC?			
7) Does the container count match the CoC?	\langle		
8) Was sufficient sample volume / mass received for the analyses requested?			
9) Were samples received in proper containers for the analyses requested?	~		
10) Were samples received with > 1/2 holding time remaining?	\sim		
11) Are samples properly preserved as indicated by CoC / labels?			
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			
13) Are VOA vials free from headspace/bubbles > 6mm?			$\overline{}$
Section 5: Explanations / Comments	D PM no	otified	
			—
			-
			_
			_
Date Logged 10/25/24 By (print) KHA	· · · · · · · · · · · · · · · · · · ·		
Date Labeled 1075/24 By (print) Orange (sign)		<u></u>	-
	···		-



Analysis Results for 518955

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 518955 Location: EA-DZUS Date Received: 10/25/24

Sample ID: E	A-EFF-2				51895 Water			Collected	: 10/24/24 10:35	
518955-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	ND		mg/L	0.10	0.06	1	353823	10/25/24 16:00	10/25/24 19:15	PAS
Sulfate	28		mg/L	1.0	0.34	1	353823	10/25/24 16:00	10/25/24 19:15	PAS
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	51		ug/L	10	2.6	10	353838	10/25/24	10/25/24	KAM



Type: Blank Matrix: Water			QC11985 EPA 300.				atch: 353 hod: ME ⁻		
QC1198565 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND	Quui	mg/L	0.10	0.06	10/25/24 16:00	1	0/25/24 17:	20
Sulfate	ND		mg/L	1.0	0.34	10/25/24 16:00		0/25/24 17:	
Type: Lab Control	Sample		Lab I				Batch:		
Matrix: Water			Metho	d: EPA 3	300.0	Prep I	Method:	METHOD	
QC1198566 Analyte		Resul	t S	Spiked	Units	Recovery	v Qual	Lim	its
litrogen, Nitrate		4.809	9	4.518	mg/L	106%	b	90-1	10
Sulfate		27.24	4	25.00	mg/L	109%)	90-1	10
					001100505				
Type: Matrix (Source ID):	•			Lab ID: Method:				: 353823 : METHOI	r
	Water (5105)	55-001)		wethou.	LFA 300.0				
		-	ource						
QC1198567 Analyte	Result		ample Result	Spiked	Units	Recovery	Qual	Limits	
Nitrogen, Nitrate	9.639		ND	9.036	mg/L	107%	Quui	80-120	
Sulfate	77.97		28.39	50.00	mg/L	99%		80-120	
Juliale					•				
Juliate									
	Matrix Spike	Duplica	ite	Lab II	D: QC119856	8	Batch	: 353823	
Type: Matrix (Source ID):	Matrix Spike Water (51895	-	ite		D: QC119856 d: EPA 300.0			: 353823 : METHO	D
Type: Matrix (Source ID):	Water (51895	5-001) Source ample		Method	d: EPA 300.0) Pre	p Method	: METHO	
Type: Matrix (Source ID): QC1198568 Analyte	Water (51895 S Result	5-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery) Pre Qual Lim	e p Method nits Ri	RPD PD Lim	
Type: Matrix (Source ID): C1198568 Analyte litrogen, Nitrate	Water (51895 S Result 9.599	5-001) Source ample Result ND	Spiked 9.036	Methoo Units mg/L	d: EPA 300.0 Recovery 106%	Qual Lin 80-	p Method hits R 120	METHO RPD PD Lim 0 20	
Type: Matrix (Source ID): QC1198568 Analyte Nitrogen, Nitrate	Water (51895 S Result	5-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery	Qual Lin 80-	e p Method nits Ri	RPD PD Lim	
Type: Matrix (Source ID): QC1198568 Analyte Jitrogen, Nitrate Sulfate	Water (51895 S Result 9.599	Source ample Result ND 28.39	Spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 106%	Qual Lin 80-	nits R 120 120	METHO RPD PD Lim 0 20	
Type: Matrix (Source ID): QC1198568 Analyte Vitrogen, Nitrate Sulfate	Water (51895) S Result 9.599 77.76 Matrix Spike	Source ample Result ND 28.39	Spiked 9.036	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 106% 99%	0 Pre Qual Lin 80- 80-	p Method nits R 120 120 Batch	RPD PD Lim 0 20 0 20	
Type: Matrix (Source ID): OC1198568 Analyte Jitrogen, Nitrate Sulfate Type:	Water (51895) S Result 9.599 77.76 Matrix Spike	5-001) Source ample Result ND 28.39 95-001) S	Spiked 9.036	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 106% 99% QC1198569	0 Pre Qual Lin 80- 80-	p Method nits R 120 120 Batch	: METHO PD Lim 0 20 0 20 : 353823	
Type: Matrix (Source ID): QC1198568 Analyte Jitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1198569 Analyte	Water (51895 S Result 9.599 77.76 Matrix Spike Water (51899 Result	5-001) Source ample Result ND 28.39 95-001) S Si	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 106% 99% QC1198569	Qual Lin 80- 80- Pre Recovery	p Method nits R 120 120 Batch	: METHO PD Lim 0 20 0 20 : 353823 : METHOI Limits)
Type: Matrix (Source ID): AC1198568 Analyte Jitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Jitrogen, Nitrate	Water (51895 S Result 9.599 77.76 Matrix Spike Water (51899 Result 9.386	5-001) Source ample Result ND 28.39 95-001) SS	Spiked 9.036 50.00 Source ample Result ND	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0	Qual Lin Qual 80- 80- 80- Pre Pre Recovery 104%	p Method hits R 120 120 Batch p Method:	: METHO PD Lim 0 20 0 20 : 353823 : METHOI Limits 80-120)
Type: Matrix (Source ID): AC1198568 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Nitrogen, Nitrate	Water (51895 S Result 9.599 77.76 Matrix Spike Water (51899 Result	5-001) Source ample Result ND 28.39 95-001) SS	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units	Qual Lin 80- 80- Pre Recovery	p Method hits R 120 120 Batch p Method:	: METHO PD Lim 0 20 0 20 : 353823 : METHOI Limits)
Type: Matrix (Source ID): QC1198568 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1198569 Analyte Nitrogen, Nitrate Sulfate	Water (51895) S Result 9.599 77.76 Matrix Spike Water (51899 Result 9.386 52.37	5-001) Source ample Result ND 28.39 95-001) SS	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L mg/L	Qual Lin Qual Lin 80- 80- 80-	p Method hits R 120 120 Batch p Method: Qual	: METHO RPD Lim 0 20 0 20 : 353823 : METHOI S0-120 80-120	
Type: Matrix (Source ID): AC1198568 Analyte Vitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Vitrogen, Nitrate Sulfate	Water (51895) S Result 9.599 77.76 Matrix Spike Water (51899 9.386 52.37 Matrix Spike	5-001) Source ample Result ND 28.39 95-001) S S S I Duplica	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L	Qual Lin Qual Lin 80- 80- 80-	p Method nits Ri 120 120 Batch p Method: Qual Batch	: METHO PD Lim 0 20 0 20 : 353823 : METHOI Limits 80-120	
Type: Matrix (Source ID): AC1198568 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Nitrogen, Nitrate Sulfate Type:	Water (51895) S Result 9.599 77.76 Matrix Spike Water (51899 9.386 52.37 Matrix Spike	5-001) Source ample Result ND 28.39 95-001) S S S I Duplica	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L mg/L mg/L D: QC119857	Qual Lin Qual Lin 80- 80- 80-	p Method nits Ri 120 120 Batch p Method: Qual Batch	 METHO RPD Lim 0 20 0 20 353823 METHOI 80-120 80-120 80-120 353823 	
Type: Matrix (Source ID): AC1198568 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Nitrogen, Nitrate Sulfate Type:	Water (51895) Result 9.599 77.76 Matrix Spike Water (51899) Result 9.386 52.37 Matrix Spike Water (51899)	5-001) Source ample Result ND 28.39 95-001) Source	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L mg/L mg/L D: QC119857	Qual Lin Qual Lin 80- 80- 80-	p Method nits Ri 120 120 Batch p Method: Qual Batch	 METHO RPD Lim 0 20 0 20 353823 METHOI 80-120 80-120 353823 METHO 	
Type: Matrix (Source ID): AC1198568 Analyte Jitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Jitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Water (51895) Result 9.599 77.76 Matrix Spike Water (51899) Result 9.386 52.37 Matrix Spike Water (51899) S	5-001) Source ample Result ND 28.39 95-001) Source ample	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L mg/L D: QC119857 d: EPA 300.0	Qual Lin Qual Lin 80- 80- 80- 80- Prej Prej Recovery 104% 100% Prej 70 Prej	p Method hits Ri 120 120 Batch p Method: Qual Batch p Method	 METHO RPD Lim 0 20 0 20 353823 METHOI 80-120 80-120 353823 METHO 	D
Type: Matrix (Source ID): AC1198568 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): AC1198569 Analyte Nitrogen, Nitrate Sulfate Type:	Water (51895) Result 9.599 77.76 Matrix Spike Water (51899) Result 9.386 52.37 Matrix Spike Water (51899) S	5-001) Source ample Result ND 28.39 95-001) Source	Spiked 9.036 50.00 Source ample Result ND 2.390	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 106% 99% QC1198569 EPA 300.0 Units mg/L mg/L mg/L D: QC119857	Qual Lim Qual Lim 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 80- 90 Pre Qual Lim	p Method hits Ri 120 120 Batch p Method: Qual Batch p Method	 METHO RPD Lim 0 20 0 20 353823 METHOI 80-120 80-120 353823 METHO 	



Type: Blank	Lab ID:	QC119858	32			Batch: 35	3838		
Matrix: Water	Method:	EPA 6020			Prep N	lethod: EP	A 3015	A	
QC1198582 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyze	ч
Cadmium	ND	Quai	ug/L	1.0	0.26	10/25/24		10/25/24	
			- 9/ -						
Type: Lab Control	Sample	Lab ID	: QC119	8583		Batch:	35383	8	
Matrix: Water		Method	: EPA 60	020	Pre	ep Method:	EPA 3	8015A	
QC1198583 Analyte	Res		Spiked	Units	Ree	,	ual	Limit	
Cadmium	10	0.3	100.0	ug/L		100%		80-12	20
			=						
Type:	•			QC1198584			h: 353		
Matrix (Source ID):	Water (518904-001)	Method:	EPA 6020	1	Prep Metho	a: EP/	A 3015A	
		Source							
		Sample							
QC1198584 Analyte	Result	Result	Spiked	Units	Recov	-		mits	DF
Cadmium	98.56	ND	100.0	ug/L	ę	99%	75	5-125	5
Туре:	• •		Lab ID				ch: 353		
Matrix (Source ID):	Water (518904-001)		Method	: EPA 6020		Prep Metho	d: EP	A 3015A	
	Source Sample	-						RPD	
QC1198585 Analyte	Result Resul		Units	Recovery	Qual	Limits	RPD	Lim	DF
Cadmium	97.64 NI	D 100.0	ug/L	98%		75-125	1	21	5
_									
Туре:	•		Lab ID:	QC1198586			h: 353		
Matrix (Source ID):	Water (518958-006	5) I	Method:	EPA 6020	F	Prep Metho	d: EP/	A 3015A	
		-							
		Source Sample							
QC1198586 Analyte	Result	Result	Spiked	Units	Recov	very Qual	Li	mits	DF
Cadmium	95.70	ND	100.0	ug/L	ę	96%	75	5-125	1
Туре:	Matrix Spike Dupli	cate	Lab ID	: QC1198587	,	Bato	ch: 35	3838	
Matrix (Source ID):	Water (518958-006)		Method	: EPA 6020		Prep Metho	d: EP	A 3015A	
	Source							000	
QC1198587 Analyte	Sample Result Resul		Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	96.11 NI	-		96%		75-125	0	21	1
			-						



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

enthalpy.com

Lab Job Number	:	519137
Report Level	:	II
Report Date	:	11/05/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	519137
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	10/29/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-INFL-2	519137-001	10/25/24 19:50	Water
EA-EFF-3	519137-002	10/25/24 11:40	Water
EA-EFF-4	519137-003	10/28/24 09:39	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 519137 Location: EA-DZUS Date Received: 10/29/24

This data package contains sample and QC results for three water samples, requested for the above referenced project on 10/29/24. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

- One sample was received outside of hold time for nitrate; affected data was qualified with "H".
- No other analytical problems were encountered.

Enthalpy Analytical LLC 931 West Barkley Ave	5		Z	5	C		S	0	ם י	~		Ū	ain o	Page Chain of Custody # :	-	of _1_	
Orange, CA 92868 (714) 771-6900 Phone											+	+		Analytical Request	Reques		-
	Ö	C&T LOGIN # 519137	# N	519	137	1											
Project No:	ö	Sampler:	Cin	Cindy Schreier	Ireier												
ne: EA-DZL	Ϋ́Υ	eport To	Cin	dy Sch	Ireier												
EDD Format: Rpt Leve	el: II II II IV C	ompany	: PRI	MAE	INITO	ame	ntal,	Inc.			_						
Turnaround Time: DRUSH 24hr	124hr TAT_ □ Standard Telephone: 916-939-7300	elephon	e: 916	-939-7	300						(et	(
	Ē	nail: dat	a@pr	imaen	viron	men	tal.c	Mo		-	eflu	_					
	Sampling	2	Matrix	_	ā	Chemical Preservative	nica	- e		(09	2 otent						
Lab Sample ID.	Date Time	Water	lioS	# of Containers	HCI	⁸ ONH ⁷ OS ⁷ H	HOPN	anoN		VOCs (826	anions (ni	Netals (Cr	muimbeO				
EA-Infl-2	10/25/24 19:50	50 x		-		^	×						×				
EA-Eff-3	10/25/24 11:40	40 ×		2		Ê	×	×			×		×				
EA-Eff-4	10/28/24 9:39	39 ×		2			×	×			×		×				
Notes:	SAMPLE RECEIPT		LINQ	RELINQUISHED BY:	DB	::					R	S	NEC	RECEIVED BY:			
24hr TAT for Cadmium. Standard TAT for Anions,	□ Intact □ Cold □ On Ice □ Ambient	M	H.	M. Dichigen	5	S.	PRIMA	-	Iol 25 Date/TIME	10/2	10/25/24	5	- 3	730 1FX			DATE/TIME
not field filtered.									DATE/TIME	NIT/3	ш	Ø	T			10/29/24	10/29/24
		_							DATE/TIME	NIT/3	ш						DATE/TIME

SAMPLE RECEIPT CHECKLIST		- m	
Section 1: General Info Date Received: <u>40/29/24</u> WO# <u>519137</u> Client: Prima Environm	renta	I ENT	HALFY
Section 2: Shipping / Custody Are custody se	als presen	nt? 🖾 Ye	s 🗆 No
Custody seals intact on arrival? IN/A TYPES INO TO ON cooler / box ION samples Shipping Info: Fed Ex			
Section 3a: Condition / Packaging	icrobiolo	gy) (PM	notified)
Date Opened 10/29/24 By (initials) NCH Type of ice used : Wet D Blue/Gel			
A Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	es)		
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Adjusted Temp (°C): / Thermometer/IR Gun: 고운 Cooler Temp (°C) #1:닌,니 / <u>3.역</u> #2:/ #3:/ #4:/ #5:/#6:			5
Section 3b: Microbiology Samples			skin 3hl
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.	inpres sub	initice (2416 261
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples No air sa		mitted	skip 3c)
□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □ 0			-
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	-		-
2) Is the sampler's name present on the CoC?	1		-
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	1	-	
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	~		_
5) Were all of, and only, the correct samples received?	1		-
6) Are sample labels present, legible, and in agreement with the CoC?			
7) Does the container count match the CoC?	1	-	
8) Was sufficient sample volume / mass received for the analyses requested?	1		
9) Were samples received in proper containers for the analyses requested?	1		-
10) Were samples received with > 1/2 holding time remaining? GCK 10/24/4	~	1	
11) Are samples properly preserved as indicated by CoC / labels?	1	-	0
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			-
13) Are VOA vials free from headspace/bubbles > 6mm?			~
Section 5: Explanations / Comments	D PM n	otified	
(10) out of holding time for 300.0 Nitrate. A sampt 002			
			Ξ
Date Logged 10/29/29 By (print) GCK (sign) C Date Labeled 10/29/29 By (print) 6 CK (sign) D			

SHIP DATE: 280CT24 ACTWGT: 15.00 LB CAD: 46923111NET4535 DIMS: 16x11x16 IN BILL SENDER		REF: TRG-CARSONEA-DZUS DEPT-	= 0	PRIORITY OVERNIGHT	CA-US SNA	
ORIGIN ID: MHRA (916) 939-7300 CINDY SCHREIER FRIMA, ENVIRONMENTAL, INC. 5070 ROBERT J. MATHEWS PKWY SUITE 300 EL DORADO HILLS, CA 95762 INVITED STATES US	TO SAMPLE RECEIVING ENTHALPY ANALYTICAL 931 WEST BARKLEY AVE	ORANGE CA 92868 (714) 771-6900 INV: INV: INV:		TRK# 7795 7993 8330	92 APVA	

After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH

Fold the printed page slong the horizontal line.
 Place label in shipping pouch and affix it to your shipment.

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Analysis Results for 519137

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 519137 Location: EA-DZUS Date Received: 10/29/24

Sample ID: E	A-INFL-2			Lab ID: Matrix:					Collected:	10/25/24 19:50	
519137-001 Analyte	Res	ult C	Qual (Jnits	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020											
Prep Method: EPA 3015A					10	0.05	10	054007	10/00/04	10/00/04	DVO
Cadmiun	1 5	520		ug/L	10	0.95	10	354097	10/29/24	10/29/24	DXC
Sample ID: E	A-EFF-3			.ab ID: Matrix:					Collected:	10/25/24 11:40	
519137-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Pr	epared	Analyzed	Chemis
Method: EPA 300.0 Prep Method: METHOD									-		
Nitrogen, Nitrate	ND	Н	mg/L	0.10	0.04	1	354122	2 10/29	0/24 21:00	10/30/24 12:32	PAS
Sulfate	27		mg/L	1.0	0.21	1	354122	2 10/29	9/24 21:00	10/30/24 12:32	PAS
Method: EPA 6020 Prep Method: EPA 3015A											
Cadmium	120		ug/L	10	0.95	10	354097	7 1C)/29/24	10/29/24	DXC
Sample ID: E	A-EFF-4			.ab ID: Matrix:					Collected:	10/28/24 09:39	
519137-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Pr	epared	Analyzed	Chemis
Method: EPA 300.0 Prep Method: METHOD											
Nitrogen, Nitrate	ND		mg/L	0.10	0.04	1	354122		9/24 21:00	10/29/24 23:33	PAS
Sulfate	30		mg/L	1.0	0.21	1	354122	2 10/29	9/24 21:00	10/29/24 23:33	PAS
Method: EPA 6020 Prep Method: EPA 3015A											
Cadmium	200		ug/L	10	0.95	10	354097	7 10)/29/24	10/29/24	DXC

H Holding time was exceeded

ND Not Detected

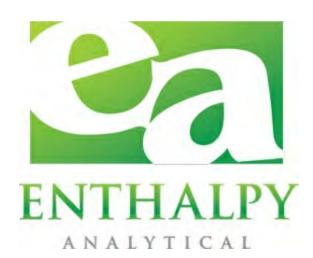


Type: Blank Matrix: Water			QC11995 EPA 300.				atch: 354 hod: ME		
						•			
QC1199545 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND		mg/L	0.10	0.04	10/29/24 21:00		10/29/24 21:	
Sulfate	ND		mg/L	1.0	0.21	10/29/24 21:00) 1	10/29/24 21:	30
Type: Lab Control	Sample		Lab I	D: QC11	99546		Batch:	354122	
Matrix: Water			Metho	d: EPA 3	800.0	Prep	Method:	METHOD	
QC1199546 Analyte		Resul	lt S	Spiked	Units	Recovery	y Qual	Lim	its
Nitrogen, Nitrate		4.64	0	4.518	mg/L	103%	6	90-1	10
Sulfate		26.1	8	25.00	mg/L	105%	0	90-1	10
Туре:	Matrix Spike			Lab ID:	QC1199554		Batch	: 354122	
Matrix (Source ID):	•	7-002)		Method:	EPA 300.0	Pre	p Method	: METHO	כ
		-	Source						
QC1199554 Analyte	Result	I	Result	Spiked	Units	Recovery	Qual	Limits	
Nitrogen, Nitrate	8.475		ND	9.036	mg/L	94%		80-120	
	78.01		27.15	50.00	mg/L	102%		80-120	
Sulfate Type:	Matrix Spike	Duplica	ate	Lab II	D: QC119955	5	Batch	n: 354122	
	Matrix Spike I Water (519137 S	7-002) ource	hte		D: QC119955 d: EPA 300.0	-		: METHO	D
Type: Matrix (Source ID):	Matrix Spike I Water (519137 S	7-002)	ate Spiked			Pre	ep Method		
Type: Matrix (Source ID): QC1199555 Analyte	Matrix Spike I Water (519137 S	ource		Method	d: EPA 300.0	Qual Lin	ep Method	RPD	
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519137 S Sa Result	ource ample Result	Spiked	Methoo	d: EPA 300.0 Recovery	Qual Lin	ep Method nits R	RPD PD Lim	
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike I Water (519137 S Result 8.602 77.31	ource ample Result	Spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 95% 100%	Qual Lin	nits R 120 120	RPD PD Lim 1 20 1 20	
	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike	ource ample Result ND 27.15	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 95%	Qual Lin 80- 80-	nits R 120 120 Batch	RPD PD Lim 1 20	
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike	ource ample Result ND 27.15 35-004)	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 95% 100% QC1199556	Qual Lin 80- 80-	nits R 120 120 Batch	RPD PD Lim 1 20 1 20 : 354122	
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike Water (51908 Result	v-002) ource ample Result ND 27.15 35-004) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units	Qual Lin 80- 80- Pre Recovery	nits R 120 120 Batch	E: METHO RPD D 1 20 1 20 20 20 20 20 20 20 20 20 20)
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike Water (51908 Result 12.36	v-002) ource ample Result ND 27.15 35-004) S	Spiked 9.036 50.00 Source ample Result 3.040	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units mg/L	Qual Lin 80- 80- Pre Recovery 103%	nits R 120 120 Batch p Method	RPD Lim 1 20 1 20 : 354122 : METHOI)
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike Water (51908 Result	v-002) ource ample Result ND 27.15 35-004) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units	Qual Lin 80- 80- Pre Recovery	nits R 120 120 Batch p Method	E: METHO RPD D 1 20 1 20 20 20 20 20 20 20 20 20 20)
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike I Water (519137 S Sa Result F 8.602 77.31 Matrix Spike Water (51908 Result 12.36	ource ample Result ND 27.15 55-004)	Spiked 9.036 50.00 Source ample Result 3.040 2.442	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units mg/L	Qual Lin 80- 8	nits R 120 120 Batch p Method	RPD Lim 1 20 1 20 : 354122 : METHOI)
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike I Water (519137 Water (519137 S Result 8.602 77.31 Matrix Spike Water (51908) Result 12.36 53.19 Matrix Spike I	v-002) ource ample Result ND 27.15 55-004) S S S Duplica	Spiked 9.036 50.00 Source ample Result 3.040 2.442	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units mg/L mg/L	Qual Lin 80- 80- 80- 80- Pre	nits R 120 120 Batch p Method Qual Batch	RPD PD Lim 1 20 1 20 : 354122 : METHOI	
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike I Water (519137 Water (519137 S Result 8.602 77.31 Matrix Spike Water (51908 Result 12.36 53.19 Matrix Spike I Water (519085 S Result 12.36 53.19 Matrix Spike I Water (519085 S Result S S S Result	v-002) ource ample Result ND 27.15 25-004) 55-004) S S S Duplica 5-004) ource ample Result	Spiked 9.036 50.00 Source ample Result 3.040 2.442 ate	Method mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units mg/L mg/L D: QC119955 d: EPA 300.0 Recovery	Qual Lin Qual Lin 80- 80	nits R 120 120 Batch p Method Qual Batch ep Method	I: METHO PD Lim 1 20 1 354122 1 354122 1 354122 1 METHO 1 354122 1 METHO	D
Type: Matrix (Source ID): QC1199555 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1199556 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike I Water (519137 Water (519137 S Result 8.602 77.31 Matrix Spike Water (51908) Result 12.36 53.19 Matrix Spike I Water (51908) S S S S S S S	v-002) ource ample Result ND 27.15 55-004) 55-004) S S S S S S S S S S S S S S S S S S S	Spiked 9.036 50.00 Source ample Result 3.040 2.442 ate	Method Units mg/L mg/L Lab ID: Method: 50.00 Lab II Method Units mg/L	d: EPA 300.0 Recovery 95% 100% QC1199556 EPA 300.0 Units mg/L mg/L D: QC119955 d: EPA 300.0	Qual Lin 80- 80- 80- Pre Pre 103% 102% 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ep Method nits R 120 120 Batch p Method Qual Batch ep Method	I: METHO RPD PD Lim 1 20 1 20 : 354122 : METHOI Limits 80-120 80-120 80-120 : 354122 : METHOI))



Type: Blank Matrix: Water	Lab ID: Method:	QC1199			Pren	Batch: 3540 Method: EPA		
	Wethou.		20		перт		3013A	
QC1199446 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analy	/zed
Cadmium	ND		ug/L	1.0	0.095	10/29/24	10/29	9/24
Type: Lab Control Sample		Lab	ID: QC11	99465		Batch:	354097	
Matrix: Water		Metho	od: EPA e	6020	Pr	ep Method:	EPA 3015A	
QC1199465 Analyte	Res	ult	Spiked	Units	Re	ecovery Qu	al Li	mits
Cadmium	10	1.9	100.0	ug/L		102%	80)-120
Type: Lab Control Sample D	uplicate		Lab ID:	QC1199466		Batch	354097	
Matrix: Water			Method:	EPA 6020		Prep Method:	EPA 301	5A
								RPD
QC1199466 Analyte	Result	Spiked	Units	Recovery	/ Qual	Limits	RPD	Lim
Cadmium	100.1	100.0	ug/L	100%	,	80-120	2	20

ND Not Detected



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

enthalpy.com

Lab Job Number	: 519442
Report Level	: 11
Report Date	: 11/08/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	519442
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	11/01/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-INFL-3	519442-001	10/31/24 09:00	Water
EA-EFF-5	519442-002	10/31/24 09:01	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 519442 Location: EA-DZUS Date Received: 11/01/24

This data package contains sample and QC results for two water samples, requested for the above referenced project on 11/01/24. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

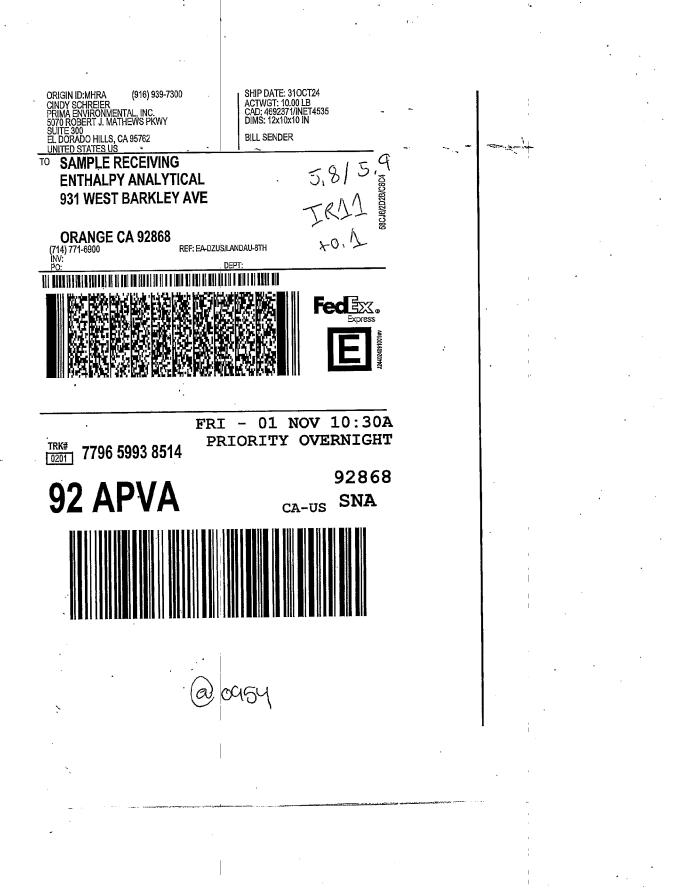
- Nitrate was analyzed outside of hold time due to instrument malfunction; affected data was qualified with "H".
- No other analytical problems were encountered.

24442	CHAIN C	Analytical Request	C&T LOGIN #	Sampler: Cindy Schreier		Rpt Level:		Email: data@primaenvironmental.com	Fe, M	2 (8260 2 (8260 0 4 1 (8260 0 4 1 (8260 0 4 1 (8260 0 4 1 (8260 1 (8260) 1 (8	Alkalii anion letal	x 2 x x x x	×					SAMPLE RECEIPT RELINQUISHED BY: RECEIVED BY:	D Intact D Cold M Shere PRINA DATE/TIME Feed EX) DATE/TIME	DATE/TIME ULL	
	CH		C&T L	Sampl	Repor	□	•		ing									SAMPLE RECEIPT	□ Intact □ Cold □ On Ice □ Ambient		
	Enthalpy Analytical LLC 931 West Barkley Ave	Orange, CA 92868 (714) 771-6900 Phone		Project No:	Project Name: EA-DZUS	EDD Format: Rpt Level:	Turnaround Time: DRUSH			Lab Sample ID.		EA-Infl-3	EA-Eff-5					Notes:	Anions not field filtered		

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Section 1: General Info Date Received: []]]][][][][][][]][]][]][]][]][]][]][]]				SECTOR
Date Received: MINI29	SAMPLE RECEIPT CHECKLIST		્રે	5
Custody seals intact on arrival? 2 N/A 2 Yes No On cooler / box On samples	Date Received: <u>UN129</u> WO# <u>519442</u> Client: <u>Prime</u> Environm	ienton	ENT	HALPY
Shipping Info:		ls presen	t? 🗆 Ye	s 🛛 No
Section 3a: Condition / Packaging //C/M // The pool ice used :	Custody seals intact on arrival? 🗹 N/A 🗇 Yes 🗇 No 🗇 On cooler / box 🗇 On samples			/
Damples received on the directly from the field, cooling process had begin, (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): //#4: #5: #6:	Shipping Info:			
Damples received on the directly from the field, cooling process had begint, (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): //#4: #5: #6: Cooler: Observed/Adjusted Temp (*C): //#4: #5: #6:	Section 3a: Condition / Packaging NCM Ats Outside 0.0 - 6.0°C (0.0 - 10.0°C for mic	crobiolog	y) (PM	notifie d)
Damples received on the directly from the field, cooling process had begin, (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): //#4: #5: #6:	Date Opened 11/1124 By (initials) 3RQ AGTO Type of ice used : Wet Blue/Gel	🗆 Non	e	
If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: IX (II _ CF: _ t) (I Cooler Temp (*C) #15 (X _ X _ H2; _ #3; _ / #4; _ #5; _ #6;	□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures	5)		
Cooler Temp (*C) #15 / S/1 #2: / #3: / #4: / #5: _ #6:				
Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3: Air Samples [1.4] Canisters 6] Canisters 1] Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were custody papers present, filled properly, and legible? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? 6) Are sample labels present, legible, and in agreement with the CoC? 7) Does the container count match the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? 9) Were samples preserved as indicated by CoC / labels? 12) Unpreserved VOA scelved - if necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments	If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun:k	<11_0	:F: <u>+い</u>	1
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Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3: Air Samples [1.4] Canisters 6] Canisters 1] Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were custody papers present, filled properly, and legible? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? 6) Are sample labels present, legible, and in agreement with the CoC? 7) Does the container count match the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? 9) Were samples preserved as indicated by CoC / labels? 12) Unpreserved VOA scelved - if necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments	Section 3b: Microbiology Samples	ples subi	nitted (skip 3b)
Section 3:: Air Samples INo air samples submitted (skip 3c) [14] Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES NO N/A 1) Were custody papers present, filled properly, and legible? Image: Sorbent Tubes Other 2) Is the sampler's name present on the CoC? Image: Sorbent Tubes Image: Sorb	Within temp range 0.0 - 10.0°C or received on ice directly from field.			
14.4 Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES NO N/A 1) Were custody papers present, filled properly, and legible? 2 Soften Tubes YES NO N/A 2) Is the sampler's name present on the CoC? 2 Soften Tubes YES NO N/A 3) Were containers received in good condition (unbroken / unopened / uncompromised)? 2 Soften Tubes Soften Tubes 2 Soften Tu	Adequate headspace for microbiology analysis.			
Section 4: Containers / Labels / Samples YES NO N/A 1) Were custody papers present, filled properly, and legible? Image: Containers received in good condition (unbroken / unopened / uncompromised)? Image: Containers received in good condition (unbroken / unopened / uncompromised)? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) Image: Container containers received for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? Image: Container count match the CoC? 7) Does the container count match the CoC? Image: Container count match the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? Image: Container count match the CoC? 9) Were samples received with > 1/2 holding time remaining? Image: Container count means the hold time changed in LIMS? 11) Are samples properly preserved as indicated by CoC / labels? Image: Container count means count means the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Image: Container count means / Comments Image: Container count means / Comments Image: Container count means / Comments Image: Container count means the hold time changed in LIMS? Image: Container count means / Comments Image: Container count means / Comments Image: Container count means / Comments Image: Contain		-	mitted	(skip 3c)
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13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments □ PM notified □	11) Are samples properly preserved as indicated by CoC / labels?			
Section 5: Explanations / Comments	12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			
Date Logged [1]1174 By (print) AED (sign) Control of the second	13) Are VOA vials free from headspace/bubbles > 6mm?			
	Section 5: Explanations / Comments	PM n	otified	-
	<u> </u>			
	Date Logged 11/1/24 By (print) AED (sign)			
0				





Analysis Results for 519442

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 519442 Location: EA-DZUS Date Received: 11/01/24

Sample ID: E	A-INFL-3	•			51944 Water		1	Collected	10/31/24 09:00	
			ľ		water					
519442-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	2.4	Н	mg/L	0.10	0.06	1	354529	11/03/24 15:45	11/03/24 22:09	PAS
Sulfate	24		mg/L	1.0	0.34	1	354529	11/03/24 15:45	11/03/24 22:09	PAS
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	500		ug/L	10	2.6	10	354456	11/01/24	11/04/24	DXC
Sample ID: E					54044					
								Collected	10/21/2/ 00.01	
	A-EFF-5		_	ab ID:	51944	2-002		Collected:	10/31/24 09:01	
	A-EFF-D		_	ad ID: latrix:	••••	2-002		Collected:	10/31/24 09:01	
519442-002 Analyte	Result	Qual	_		••••	2-002 DF	Batch	Collected: Prepared	10/31/24 09:01 Analyzed	Chemist
		Qual	M	latrix:	Water					Chemist
519442-002 Analyte Method: EPA 300.0		Qual H	M	latrix:	Water					Chemist
519442-002 Analyte Method: EPA 300.0 Prep Method: METHOD	Result		M Units	latrix:	Water MDL	DF	Batch	Prepared	Analyzed	
519442-002 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	Result		M Units mg/L	RL 0.10	Water MDL 0.06	DF	Batch 354529	Prepared 11/03/24 15:45	Analyzed	PAS

H Holding time was exceeded

ND Not Detected



Type: Blank Matrix: Water			QC12009 EPA 300.				Batch: 354 ethod: ME		
QC1200909 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND		mg/L	0.10		11/03/24 15:4	-	11/03/24 17	
Sulfate	ND		mg/L	1.0	0.34	11/03/24 15:4	.5	11/03/24 17	:12
Type: Lab Control	Sample		Lab I	D: QC12	00910		Batch:	354529	
Matrix: Water			Metho	d: EPA 3	00.0	Prep	Method:	METHOD	
QC1200910 Analyte		Resu	lt S	piked	Units	Recove	ry Qual	Lin	nits
Nitrogen, Nitrate		4.45	9	4.518	mg/L	99	%	90-	110
Sulfate		24.9	7	25.00	mg/L	100	%	90-	110
Type:	Matrix Spike			Lab ID:	QC1200911		Batch	n: 354529	
Matrix (Source ID):	•			Method:		Pr	ep Method	: METHO	D
		S	Source						
QC1200911 Analyte	Result		Result	Spiked	Units	Recovery	Qual	Limits	
Nitrogen, Nitrate	8.901		ND	9.036	mg/L	99%		80-120	
			3.526	50.00	mg/L	96%		80-120	
Туре:	51.77 Matrix Spike I	-		Lab II				h: 354529	
	Matrix Spike I Water (519383 S	3-002) Source			D: QC120091 d: EPA 300.0			d: METHO	
	Matrix Spike I Water (519383 S	3-002)				Pi	rep Method		
Type: Matrix (Source ID): QC1200912 Analyte	Matrix Spike I Water (519383 S	3-002) Source ample	ate	Method	d: EPA 300.0	Qual Li	rep Method	d: METHO	D
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519383 Sa Result	3-002) Source ample Result	ate Spiked	Methoo	d: EPA 300.0 Recovery	Qual Li	rep Method	d: METHO RPD RPD Lim	D
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate Gulfate	Matrix Spike I Water (519383 S S S Result 8.966 52.19	Source ample Result ND 3.526	Spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 99% 97%	Qual Li	imits F D-120 D-120	RPD Lim 1 20 1 20	D
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike I Water (519383 Sa Result F 8.966 52.19 Matrix Spike	a-002) Source ample Result ND 3.526	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 99%	Qual Li 80	imits F D-120 D-120 Batch	d: METHO RPD Lim 1 20	
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike I Water (519383 Sa Result 8.966 52.19 Matrix Spike Water (51946	3-002) Source ample Result ND 3.526 54-001) S	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0	Qual Li 80 80 Pr	imits F D-120 D-120 Batch ep Method	RPD Lim 1 20 1 20 1 354529 I: METHO	D
Type: Matrix (Source ID): OC1200912 Analyte Jitrogen, Nitrate Sulfate Type: Matrix (Source ID): OC1200913 Analyte	Matrix Spike I Water (519383 Sa Result E 8.966 52.19 Matrix Spike Water (51946 Result	3-002) Source ample Result ND 3.526 54-001) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0	Qual Li 80 80 80 80 80 80 80 80 80 80 80 80 80	imits F D-120 D-120 Batch	Herthom RPD Lim 1 20	D
Type: Matrix (Source ID): OC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): OC1200913 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519383 Sa Result F 8.966 52.19 Matrix Spike Water (51946 Result 11.39	3-002) Source ample Result ND 3.526 54-001) S	Spiked 9.036 50.00 Source ample Result 2.539	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0 Units mg/L	Qual Li Qual Li 80	imits F D-120 D-120 Batch ep Method Qual	Herthom RPD Lim 1 20 1 METHO Limits 80-120	D
Type: Matrix (Source ID): OC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): OC1200913 Analyte Nitrogen, Nitrate	Matrix Spike I Water (519383 Sa Result E 8.966 52.19 Matrix Spike Water (51946 Result	3-002) Source ample Result ND 3.526 54-001) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0	Qual Li 80 80 80 80 80 80 80 80 80 80 80 80 80	imits F D-120 D-120 Batch ep Method	Herthom RPD Lim 1 20	D
Type: Matrix (Source ID): Actize Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): Actize Actize Nitrogen, Nitrate Sulfate Sulfate	Matrix Spike I Water (519383 Water (519383 Same Result 8.966 52.19 Matrix Spike Water (51946) Result 11.39 277.4 Matrix Spike I	3-002) Source ample Result ND 3.526 54-001) S S I Duplica	Spiked 9.036 50.00 Source ample Result 2.539 250.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0 Units mg/L mg/L mg/L D: QC120091	Pi Qual Li 80 80 80 80 80 80 98% 55% 4	imits F 0-120 0-120 D-120 Batch ep Method Qual E,NM	d: METHO RPD Lim 1 20 1 20	D
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1200913 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike I Water (519383 Water (519383 Same Result 8.966 52.19 Matrix Spike Water (51946) Result 11.39 277.4 Matrix Spike I	3-002) Source ample Result ND 3.526 54-001) S S I Duplica	Spiked 9.036 50.00 Source ample Result 2.539 250.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0 Units mg/L mg/L	Pi Qual Li 80 80 80 80 80 80 98% 55% 4	imits F 0-120 0-120 D-120 Batch ep Method Qual E,NM	d: METHO RPD Lim 1 20 1 20	D
Type: Matrix (Source ID): QC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1200913 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike I Water (519383 Water (519383 Result 8.966 52.19 Matrix Spike Water (519464 Result 11.39 277.4 Matrix Spike I Water (519464 Same Same Same Same Same Same Same Same	3-002) Source ample Result ND 3.526 54-001) Source ample Result	Spiked 9.036 50.00 Source ample Result 2.539 250.1 ate	Method mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 99% 97% QC1200913 EPA 300.0 Units mg/L mg/L D: QC120091 d: EPA 300.0	Qual Li 80 80 80 80 80 80 80 98% 55% 4 98% 55%	imits F 0-120 0-120 D-120 Batch ep Method E,NM Batch rep Method	d: METHO RPD Lim 1 20 1 20	D
Type: Matrix (Source ID): OC1200912 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): OC1200913 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike I Water (519383 Water (519383 Result 8.966 52.19 Matrix Spike Water (51946 Result 11.39 277.4 Matrix Spike I Water (519464 Salar Salar	3-002) Source ample Result ND 3.526 54-001) Source ample	Spiked 9.036 9.036 50.00 Source ample Result 2.539 250.1 ate	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	B: EPA 300.0 Recovery 99% 99% 97% QC1200913 EPA 300.0 Units mg/L mg/L mg/L D: QC1200913 EPA 300.0 EPA 300.0	Qual Li 80 80 80 80 80 80 80 80 80 80 80 80 80	rep Method imits F D-120 D-120 Batch ep Method E,NM Batch rep Method	d: METHO RPD Lim 1 20 1 20	D



Batch QC

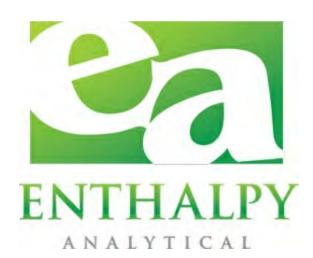
Type: Blank	Lab ID	: QC12006	06			Batch:	35445	56		
Matrix: Water	Method	I: EPA 6020)		Prep M	Method:	EPA 3	3015A		
QC1200606 Analyte	Resul	t Qual	Units	RL	MDL	Prepare	ed	Α	nalyzed	ł
Cadmium	NE)	ug/L	1.0	0.095	11/01/2			1/05/24	
Type: Lab Control	Sample		D: QC120		_		ch: 35			
Matrix: Water		Method	d: EPA 60	020	Pr	ep Metho	od: El	PA 30 1	15A	
QC1200607 Analyte	Re	esult	Spiked	Units	Re	covery	Qual		Limits	3
Cadmium	1	00.8	100.0	ug/L		101%			80-120	0
••	Matrix Spike		Lab ID:	QC1200608		В	atch:	35445	56	
Matrix (Source ID):	Water (519383-00)2)	Method:	EPA 6020		Prep Met	thod:	EPA 3	3015A	
		Source Sample								
QC1200608 Analyte	Result	Result	Spiked	Units	Reco	very Q	ual	Limi	its	D
Cadmium	100.4	0.1910	100.0	ug/L	1	00%		75-1	25	-
Туре:	• •		Lab ID		£		Batch:			
Matrix (Source ID):	Water (519383-00)	2)	Method	: EPA 6020		Prep Me	thod:	EPA	3015A	
	Sour									
	Samp								RPD	
QC1200609 Analyte	Result Res	•		Recovery		Limits		RPD	Lim	DF
Cadmium	101.2 0.19	10 100.0) ug/L	101%	1	75-125	5	1	21	1
Turner	Matrix On its			001000010				05445		
Type: Matrix (Source ID):	•	11)		QC1200610 EPA 6020		B Prep Met	atch:			
	Water (519422-00	,,,	methou.	EFA 0020				EFA	DUIJA	
		Source								
		Sample								
QC1200610 Analyte	Result	Result	Spiked				ual	Limi		DF
Cadmium	102.5	ND	100.0	ug/L	1	02%		75-1	25	1
Type	Matrix Spike Dup	icato	l ah ID	: QC1200611	1		Batch:	35///	56	
Matrix (Source ID):	• •			: EPA 6020	•	Prep Me				
		- /								
	Sour									
001000011 A	Samp Result Resu			D		1.1.1.1	-		RPD	.
		ult Spiked	d Units	Recovery	/ Qual	Limits	s F	RPD	Lim	DF
QC1200611 Analyte Cadmium		D 100.0		104%		75-125	-	1	21	1

Response exceeds instrument's linear Е

range

ND Not Detected

NM Not Meaningful



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

enthalpy.com

Lab Job Number	:	519981
Report Level	:	II
Report Date	:	11/16/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	519981
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	11/08/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-EFF-7	519981-001	11/06/24 14:34	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 519981 Location: EA-DZUS Date Received: 11/08/24

This data package contains sample and QC results for one water sample, requested for the above referenced project on 11/08/24. The sample was received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Enthalpy Analy 931 West Barkley Ave	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF CUSTODY	A	Z	ō	IL.	ರ	S	H	ō	6	~		Ċ	ain	Page	Pa	Page_	-	ō	_of1_				
Orange, CA 92868 (714) 771-6900 Phone	92868 0 Phone																Analytical Request	lyti	cal	Seq	nes	++				
			C&T LOGIN # 51 998 (90	# N	5	00	181	аř.																	
Project No:			Sampler:	er:	Ci	Cindy Schreier	chre	ier			1															
Project Name:	EA-DZUS		Report To: Cindy Schreier	t To	Ğ	dy S	chre	ier				-									_					
EDD Format:	Rpt Leve	Rpt Level: II II II V Company : PRIMA Environmental, Inc.	V Comp	any	H.	AMI	Envi	ronn	lent	al, Ir	2 2													_		
Turnaround Time:	D RUSH	□ Standard	Telephone: 916-939-7300	JON	91	9-936	-73	0			1	_		(əte)							-		_			
			Email: data@primaenvironmental.com	dat	a@p	rima	envir	muo	enta	.co	E		-	stilua	_				_							
		Sampling	6u	Z	Matrix			Pres	Chemical Preservative	cal	-	(05	(0)	trate, s		(IstoT)										
No.	Sample ID.	Date	Time	Water	lioS	ło #	Containers HCI	*OS ^Z H	[©] ONH	HOPN	anoN	VOCs (826	Alkalinty	in) enoine	Netals (Cr	muimbeO										
	EA-Eff-7	11/06/24	14:34	×		2			×		×			×		×				\vdash	-					
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NOICO.		SAMPLE RECEIPT	CEIPI	R L		KELINQUISHED BY:	ם	BY:							E	N N	RECEIVED BY:						-	-		
Anions not field filtered	ield filtered	□ Intact □ Cold □ On Ice □ Ambient	d bient	03	with	Brithuy B.		Managu		PRIA	PRIMA DATE/TIME	ATE/	TIME		12	FEDEX								DAT	DATE/TIME	Щ
		5.5/2:5					5					DATE/TIME	TIME		J	1	0					=	118/24	DAT	DATE/TIME	0 4
											D	DATE/TIME	TIME		0									DAT	DATE/TIME	Щ
							-																			1

SAMPLE RECEIPT CHECKLIST Section 1: General Info		3	2
Date Received: 11/8/24 WO# 519981 Client: PRIMA EAV.		ENT	HALPY
Section 2: Shipping / Custody Are custody se	als presen	t? 🗆 Ye	
Custody seals intact on arrival? IN/A I Yes INO On cooler / box On samples Shipping Info:			
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.0°C for n	nicrobiolog	y) (PM	notified
Date Opened $\frac{11/8}{29}$ By (initials) <u>6CK</u> Type of ice used : Ref Wet D Blue/Gel	Non	e	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatur	es)		
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)		-	
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun:/ Cooler Temp (°C) #1: <u>5 2 / 5 3</u> #2: #3: #4: #5: #5: #6:	211 (CF: <u>+D</u>	4
Section 3b: Microbiology Samples 🛛 🕹 No microbiology sa	mples sub	mitted (skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples 🛛 🖾 No air sa	mples sub	mitted (skip 3c)
🗀 1.4L Canisters 📄 6L Canisters 📄 Tedlar Bags 📄 MCE Cassettes 🗂 Sorbent Tubes 🗍 C	Other		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?		_	
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	/		10.51
5) Were all of, and only, the correct samples received?	/		
6) Are sample labels present, legible, and in agreement with the CoC?	/		
7) Does the container count match the CoC?			
8) Was sufficient sample volume / mass received for the analyses requested?	/		
9) Were samples received in proper containers for the analyses requested?	1	1	1
10) Were samples received with > 1/2 holding time remaining?	1		
11) Are samples properly preserved as indicated by CoC / labels?	/		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			/
13) Are VOA vials free from headspace/bubbles > 6mm?			/
Section 5: Explanations / Comments	D PM n	otified	
			2
			Ξ
Date Logged <u>116/09</u> By (print) <u>J. Peterson</u> (sign) <u>Leg</u> Date Labeled <u>11/8/19</u> By (print) <u>G. Wim</u> (sign)			



Analysis Results for 519981

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 519981 Location: EA-DZUS Date Received: 11/08/24

Sample ID: E	A-EFF-7				51998 Water			Collected	: 11/06/24 14:34	
519981-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	0.09	J	mg/L	0.10	0.06	1	355010	11/08/24 11:40	11/08/24 13:09	AJL
Sulfate	9.5		mg/L	1.0	0.34	1	355010	11/08/24 11:40	11/08/24 13:09	AJL
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	180		ug/L	10	0.95	10	355072	11/08/24	11/08/24	KAM

J Estimated value



Type: Blank Matrix: Water			QC12024 EPA 300.				Batch: 355 ethod: ME		
0C1202482 Apolyto	Result	Qual	Units	RL	MDL	Proparad		Applyzod	
QC1202482 Analyte Nitrogen, Nitrate	ND	Quai	mg/L	0.10	0.06	Prepared 11/08/24 11:4	10 .	Analyzed 11/08/24 13:	54
Sulfate	ND		mg/L	1.0	0.00	11/08/24 11:4		11/08/24 13:	
Junale	ND		ing/∟	1.0	0.04	11/00/24 11	10	11/00/24 10.	7
Type: Lab Control	Sample		Lab I	D: QC12	02483		Batch:	355010	
Matrix: Water			Metho	d: EPA 3	800.0	Prep	o Method:	METHOD	
QC1202483 Analyte		Resul	lt S	piked	Units	Recove	ery Qual	Limi	ts
Nitrogen, Nitrate		4.594	4	4.518	mg/L	102	2%	90-1	10
Sulfate		25.2	1	25.00	mg/L	101	%	90-1	10
Turney	Motrix Chika	_		Lab ID:	QC1202484		Datab	: 355010	
Type: Matrix (Source ID):	•			Method:			rep Method)
		10 001)		metriou.		••			-
		-	Source ample						
QC1202484 Analyte	Result		Result	Spiked	Units	Recovery	Qual	Limits	[
Nitrogen, Nitrate	9.091		ND	9.036	mg/L	101%		80-120	
	000 5		397.8	50.00	mg/L	-16%	E,NM	80-120	
Sulfate Type: Matrix (Source ID):	•	Duplica		Lab II Methoo	D: QC120248 d: EPA 300.0		Batch rep Method	n: 355010 I: METHO	D
Matrix (Source ID):	Matrix Spike Water (51997	Duplica '5-001) Source Sample	ite	Method	d: EPA 300.0) P	rep Method	I: METHO	
Type: Matrix (Source ID): QC1202485 Analyte	Matrix Spike Water (51997	Duplica '5-001) Source Sample Result	ite Spiked	Methoo Units	d: EPA 300.0 Recovery) P Qual L	rep Method .imits R	I: METHO RPD PD Lim	
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate	Matrix Spike Water (51997 S Result 9.107	Duplica '5-001) Source Sample Result ND	spiked 9.036	Methoo Units mg/L	d: EPA 300.0 Recovery 101%) P Qual L 8	rep Method .imits R 0-120	RPD RPD Lim 0 20	
Type: Matrix (Source ID):	Matrix Spike Water (51997	Duplica '5-001) Source Sample Result	ite Spiked	Methoo Units	d: EPA 300.0 Recovery) P Qual L 8	rep Method .imits R	I: METHO RPD PD Lim	
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51997 S Result 9.107	Duplica 75-001) Source Sample Result ND 397.8	spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 101%) P Qual L 8	rep Method .imits R 0-120 0-120	RPD RPD Lim 0 20	
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51997 S Result 9.107 389.8	Duplica /5-001) Source Sample Result ND 397.8	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 101% -16%) P Qual L 8 E,NM 8	rep Method .imits R 0-120 0-120	I: METHO RPD Im 0 20 20 20 : 355010	[
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike Water (51997 S Result 9.107 389.8	Duplica 25-001) Source Sample Result ND 397.8 72-001)	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 101% -16% QC1202487) P Qual L 8 E,NM 8	imits R 0-120 0-120 Batch	I: METHO RPD Im 0 20 20 20 : 355010	1
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte	Matrix Spike Water (51997 Sesult 9.107 389.8 Matrix Spike Water (5199 Result	Duplica 25-001) Source Sample Result ND 397.8 2 72-001) S S S 1	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units) P Qual L 8 E,NM 8 Pr Recovery	imits R 0-120 0-120 Batch	E METHO RPD Lim 0 20 20 355010 METHOE Limits)
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike Water (51997 S Result 9.107 389.8 Matrix Spike Water (5199 Result 9.241	Duplica (5-001) Source Sample Result ND 397.8 72-001) S	Spiked 9.036 50.00 Source ample Result ND	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0	Qual L Qual L 8 8 E,NM 8 Pr Pr Recovery 102%	imits R 0-120 0-120 Batch rep Method	I: METHO RPD Lim 0 20 20 20 : 355010 : METHOD Limits 80-120	[
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte Nitrogen, Nitrate	Matrix Spike Water (51997 Sesult 9.107 389.8 Matrix Spike Water (5199 Result	Duplica (5-001) Source Sample Result ND 397.8 72-001) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units) P Qual L 8 E,NM 8 Pr Recovery	imits R 0-120 0-120 Batch rep Method	E METHO RPD Lim 0 20 20 355010 METHOE Limits)
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51997 Sesult 9.107 389.8 Matrix Spike Water (5199 Result 9.241 307.2	Duplica /5-001) Source Sample Result ND 397.8 72-001) S S	Spiked 9.036 50.00 Source ample Result ND 287.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units mg/L	Qual L Qual L 8 8 E,NM 8 Pr Pr Recovery 102% 40% 10%	imits R 0-120 0-120 Batch rep Method Qual	I: METHO RPD Lim 0 20 20 20 : 355010 : METHOD Limits 80-120)
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte Nitrogen, Nitrate Sulfate	Matrix Spike Water (51997 S Result 9.107 389.8 Matrix Spike Water (5199 Result 9.241 307.2 Matrix Spike	Duplica (5-001) Source Sample Result ND 397.8 72-001) S S S I Duplica	Spiked 9.036 50.00 Source ample Result ND 287.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units mg/L mg/L	Qual L Qual L 8 8 E,NM 8 Pr Pr Recovery 102% 40% 8	imits R 0-120 0-120 Batch rep Method Qual	E: METHO RPD Lim 0 20 20 20 355010 : METHOE 80-120 80-120 80-120 120 120 120 120 120 120 120	
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Matrix Spike Water (51997 9.107 389.8 Matrix Spike Water (5199 9.241 307.2 Matrix Spike Water (51997	Duplica 25-001) Source Sample Result ND 397.8 72-001) Source Sample	Spiked 9.036 50.00 Source ample Result ND 287.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units mg/L mg/L mg/L D: QC120248	Qual L Qual L 8 8 E,NM 8 Pr 102% 40% 38 P P	imits R 0-120 0-120 Batch rep Method E,NM Batch rep Method	E: METHO RPD Lim 0 20 20 20 355010 : METHOE 80-120 80-120 80-120 120 120 120 120 120 120 120	
Type: Matrix (Source ID): QC1202485 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1202487 Analyte Nitrogen, Nitrate Sulfate Type:	Matrix Spike Water (51997 9.107 389.8 Matrix Spike Water (5199 9.241 307.2 Matrix Spike Water (51997	Duplica 25-001) Source Sample Result ND 397.8 72-001) Source	Spiked 9.036 50.00 Source ample Result ND 287.1	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 101% -16% QC1202487 EPA 300.0 Units mg/L mg/L D: QC120248 d: EPA 300.0	Qual L Qual L 8 8 E,NM 8 Pr 102% 40% 38 P P	imits R 0-120 0-120 Batch rep Method E,NM Batch rep Method	I: METHO RPD Lim 0 20 20 20 : 355010 : METHOD Limits 80-120 80-120 80-120 : 355010 : METHOD : METHOD)



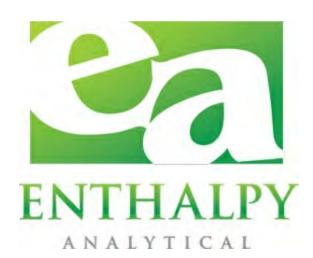
Type: Blank Matrix: Water	Lab ID: Method:	QC12026 EPA 6020			Prep	Batch: 355 Method: EP		15A	
QC1202667 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	I
Cadmium	ND		ug/L	1.0	0.095	11/08/24		11/08/24	
Type: Lab Control	Sample	Lab ID): QC120	2668		Batch:	355	072	
Matrix: Water		Method	1: EPA 6	020	P	rep Method:	EPA	A 3015A	
QC1202668 Analyte	Res	ult	Spiked	Units	R	ecovery Q	ual	Limits	5
Cadmium	96	.44	100.0	ug/L		96%		80-120	0
Туре:	Matrix Spike		Lab ID:	QC1202669		Batc	h: 3	55072	
Matrix (Source ID):	Water (519850-001)	Method:	EPA 6020		Prep Metho	d: E	PA 3015A	
QC1202669 Analyte	Result	Source Sample Result	Spiked	Units	Reco	overy Qual		Limits	DF
Cadmium	98.17	ND	100.0	ug/L		98%		75-125	1
Type: Matrix (Source ID):	Matrix Spike Duplic Water (519850-001)		Lab ID Method	: QC120267 : EPA 6020	0	Bato Prep Metho	-	355072 EPA 3015A	
QC1202670 Analyte	Source Sample Result Result))		Recovery	y Qual	•	RP	RPD	DF
Cadmium	97.41 NE	0 100.0) ug/L	97%	0	75-125		1 21	1

E Response exceeds instrument's linear

E range

ND Not Detected

NM Not Meaningful



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

enthalpy.com

Lab Job Number	: 520870
Report Level	: 11
Report Date	: 12/02/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	520870
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	11/21/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-EFF 8	520870-001	11/08/24 09:51	Water
DA-DZUS EFF 9	520870-002	11/11/24 10:01	Water
EA-DZUS EFF 10	520870-003	11/14/24 10:18	Water
EA-EFF 11	520870-004	11/18/24 08:28	Water
EA-DZUS EFF 12	520870-005	11/20/24 11:04	Water
EA-DZUS INFL 4	520870-006	11/14/24 14:30	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 520870 Location: EA-DZUS Date Received: 11/21/24

This data package contains sample and QC results for six water samples, requested for the above referenced project on 11/21/24. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Entha 931 We	Enthalpy Analytical LLC 931 West Barkley Ave		CH	AIA	AIN OF CUSTODY		2	S	Ĕ	2	7		Ū	nain of	Page _ Chain of Custody #	-	of _1_	
Orange, (714) 77	Orange, CA 92868 (714) 771-6900 Phone													A	alytical	Analytical Request		
			C&T L	OGIN	C&T LOGIN # 57087	48	~											
Project No:	No:		Sampler:		Cindy Schreier	chrei	Ъ						_					
Project Name:	Name: EA-DZUS		Report To:		Cindy Schreier	chrei	5							_				
EDD Format:		Rpt Level: II II III IV Company:	V Comp		PRIMA Environmental, Inc.	Envir	onme	ental	, Inc					_	_			
Turnaro	Turnaround Time: DRUSH XS	X Standard	Telepl	none:	Telephone: 916-939-7300	-730	0					(əte)	,					
			Email	data(Email: data@primaenvironmental.com	enviro	nme	ental.	com			Sitiv	_					
		Sampling	Бu	Matrix	rix		Chemical	Chemical	al		(0	l stell		23.1.1.284				
Lab No.	Sample ID.	Date	Time	Water Soil	40 #	Containers	[≯] OS ^z H	[®] ONH	HOgN		VOCs (826	Alkalinty (su	Metals (Cr,) muimbsO				
-	EA-Eff 8	11/08/24	9:51	×	-	-		×						×				
1	EA- DZUS Eff 9	11/11/24	10:01	×	1	-		×						×				
۲	EA-DZUS Eff 10	11/14/24	10:18	×	1	_		×						×				
5	EA-Eff 11	11/18/24	8:28	×	1			×				-		×				
2	EA-DZUS Eff 12	11/20/24	11:04	×	2			×	×			×		×				
9	EA-DZUS Infl 4	11/14/24	14:30	×	-			×				-		×				
									++-			++-						
						+		+	+		+							
Notes:		SAMPLE RECEIPT	CEIPT	RELI	RELINQUISHED BY:	ĒD	34:					R	SCE	RECEIVED BY:	sγ:			
Anion	Anions not field filtered	□ Intact □ Cold □ On Ice □ Ambient	d bient	m.	Flickingen	leve	en	PR	PRIMA	II/20/24	ZO(Z		16:30	Fee	IEX			DATE/TIME
										DAT	DATE/TIME	Ш	9	Z		11/12/11		DATE/TIME
				_						DAT	DATE/TIME	ш						DATE/TIME

SAMPLE RECEIPT CHECKLIST		1	
Section 1: General Info Date Received: 11/21/24 WO# 520870 Client: Prima Environmental, Inc.		INI	TALPY
Section 2: Shipping / Custody Are custody sea	ls preser	t? 🗆 Ye	s 🗹 No
Custody seals intact on arrival? INA I Yes No On cooler / box On samples			
Section 3a: Condition / Packaging 🔲 Outside 0.0 - 6.0°C (0.0 - 10.0°C for mi	crobiolog	y) (PM r	notified)
Date Opened 11/21/24 By (initials) JKC Type of ice used : 🗹 Wet 🗆 Blue/Gel	Nor	e	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	5)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: IR01		CF:-0.5	_
Cooler Temp (°C) #1: <u>3.2 /2.7 </u> #2:#3:#4:#5:#6:			
Section 3b: Microbiology Samples	ples sub	mitted (skip 3b)
Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples 🛛 No air san	nples sub	mitted (skip 3c)
□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □ Ot	her		1.1
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	x		
2) Is the sampler's name present on the CoC?	x		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	x		
5) Were all of, and only, the correct samples received?	x		
6) Are sample labels present, legible, and in agreement with the CoC?	x		
7) Does the container count match the CoC?	x		
8) Was sufficient sample volume / mass received for the analyses requested?	x		
9) Were samples received in proper containers for the analyses requested?	x		
10) Were samples received with > 1/2 holding time remaining?	x		
11) Are samples properly preserved as indicated by CoC / labels?	x		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			x
13) Are VOA vials free from headspace/bubbles > 6mm?	x		
And The Article Contraction of the Article Contr	D PM n	otified	
	x	otified	
Date Logged 11/21/24 By (print) G. Kim (sign) Card			



Analysis Results for 520870

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 520870 Location: EA-DZUS Date Received: 11/21/24

Sample ID: EA-I	EFF 8		Lab ID:					Collected:	11/08/24 09:51					
			Matrix:	Wate	r									
520870-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist				
Method: EPA 6020 Prep Method: EPA 3015A														
Cadmium	180		ug/L	10	2.6	10	356149	11/21/24	11/21/24	KAM				
	_							-						
Sample ID: DA-DZ	ZUS EFF 9	9		b ID: atrix:				Collected	d: 11/11/24 10:0	1				
520870-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist				
Method: EPA 6020 Prep Method: EPA 3015A														
Cadmium	140		ug/L	10	2.6	10	356149	11/21/24	11/21/24	KAM				
Sample ID: EA-DZ		10		ab ID:	5208	70 002		Collecto	d: 11/14/24 10:1	0				
Sample ID. EA-DZ		10		ab ib. Aatrix:				Conected	u. 11/14/24 10.	0				
520870-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist				
Method: EPA 6020 Prep Method: EPA 3015A														
Cadmium	130		ug/L	10	2.6	10	356149	11/21/24	11/21/24	KAM				
						-								
Sample ID: EA-E	EFF 11		Lab ID	: 5208	270 00									
						4		Collected:	11/18/24 08:28					
				: Wat		4		Collected:	11/18/24 08:28					
520870-004 Analyte	Result	Qual		: Wato RL		4 DF	Batch	Collected: Prepared	11/18/24 08:28 Analyzed	Chemist				
Method: EPA 6020	Result	Qual	Matrix		er		Batch			Chemist				
Method: EPA 6020	Result 76	Qual	Matrix		er		Batch 356149			Chemist				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium	76		Matrix Units ug/L	RL	er MDL 2.6	DF		Prepared	Analyzed 11/22/24					
520870-004 Analyte Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-D2	76		Matrix Units ug/L	RL 10 ab ID:	er MDL 2.6 5208	DF 10 70-005		Prepared	Analyzed	KAM				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium	76		Matrix Units ug/L	RL	er MDL 2.6 5208	DF 10 70-005		Prepared	Analyzed 11/22/24	KAM				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-DZ 520870-005 Analyte R	76	12	Matrix Units ug/L L N	RL 10 ab ID:	er MDL 2.6 5208 Wate	DF 10 70-005	356149	Prepared	Analyzed 11/22/24	KAM)4				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-D2 520870-005 Analyte Method: EPA 300.0 Prep Method: METHOD	76 ZUS EFF 1 Result Qu	12 Ial Unit	Matrix Units ug/L L N ts RL	10 ab ID: Matrix: MDL	er MDL 2.6 5208 Wate DF	DF 10 70-005 r Batch	356149 Pi	Prepared 11/21/24 Collecter repared	Analyzed 11/22/24 d: 11/20/24 11:(Analyzed	KAM 04 Chemis				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-D2 520870-005 Analyte R Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	76 ZUS EFF 1 Result Qu	I2 Ial Unit	Matrix Units ug/L L Ss RL	RL 10 ab ID: fatrix: MDL 0.06	er MDL 2.6 5208 Wate DF	DF 10 70-005 r Batch	356149 P I	Prepared 11/21/24 Collecter repared 1/24 17:53	Analyzed 11/22/24 d: 11/20/24 11:(Analyzed 11/22/24 05:23	KAM 04 Chemis AJL				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-D2 520870-005 Analyte Method: EPA 300.0 Prep Method: METHOD	76 ZUS EFF 1 Result Qu	12 Ial Unit	Matrix Units ug/L L Ss RL	10 ab ID: Matrix: MDL	er MDL 2.6 5208 Wate DF	DF 10 70-005 r Batch	356149 P I	Prepared 11/21/24 Collecter repared	Analyzed 11/22/24 d: 11/20/24 11:(Analyzed	KAM 04 Chemis				
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-D2 520870-005 Analyte R Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	76 ZUS EFF 1 Result Qu	I2 Ial Unit	Matrix Units ug/L L Ss RL	RL 10 ab ID: fatrix: MDL 0.06	er MDL 2.6 5208 Wate DF 1 1	DF 10 70-005 r Batch	356149 Pi 7 11/2 7 11/2	Prepared 11/21/24 Collecter repared 1/24 17:53	Analyzed 11/22/24 d: 11/20/24 11:(Analyzed 11/22/24 05:23	KAM)4 Chemis AJL				



Analysis Results for 520870

Sample ID: EA-DZ	US INFL	4		_ab ID: Matrix:				Collected:	11/14/24 14	:30
520870-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	470		ug/L	10	2.6	10	356149	11/21/24	11/22/24	KAM

ND Not Detected

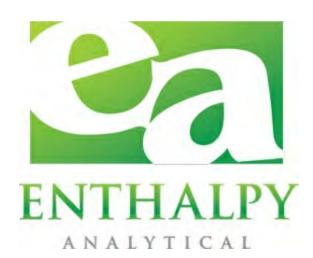


Type: Blank		Lab ID:	QC120622	5		Bato	ch: 356117	,	
Matrix: Water	I	Method:	EPA 300.0			Prep Metho	d: METHO	D	
QC1206225 Analyte	Result	Qual	Units	RL	MDL	Prepared	Ar	nalyzed	
Nitrogen, Nitrate	ND		mg/L	0.10	0.06	11/21/24 17:53		1/24 18:19	9
Sulfate	ND		mg/L	1.0	0.34	11/21/24 17:53		1/24 18:19	
Type: Lab Control S	Sample		Lab ID	: QC12	06226		Batch: 356	117	
Matrix: Water	•		Method	: EPA 3	300.0	Prep Me	ethod: ME	THOD	
QC1206226 Analyte		Resu	•	oiked	Units	Recovery	Qual	Limits	-
Nitrogen, Nitrate		4.44		1.518	mg/L	98%		90-11	
Sulfate		24.4	8 2	25.00	mg/L	98%		90-11	0
						-			
Туре:	•			Lab ID:		-	Batch: 3		
Matrix (Source ID):	Water (520	830-001)		Method:	EPA 300.0	Prep	Method: N	IETHOD	
			_						
			Source						
QC1206229 Analyte	Resu		ample Result	Spiked	Units	Recovery C	Qual Li	mits	DF
Nitrogen, Nitrate	9.33		0.6456	9.036	mg/L	96%		-120	1
Sulfate	57.8		10.33	50.00	mg/L	95%		-120	1
					0				
Type:	Matrix Spike		ate	Lab II	D: QC12062	230	Batch: 3	56117	
Matrix (Source ID):	-	-			d: EPA 300		Method:		
						····P			
		Source							
		Sample						RPD	
QC1206230 Analyte	Result	Result	Spiked	Units	Recover	-	-	Lim	DF
Nitrogen, Nitrate	9.290	0.6456	9.036	mg/L	96%			20	1
Sulfate	57.68	10.33	50.00	mg/L	95%	6 80-12	0 0	20	1
Tuno, Diank		ah ID.	QC1206308			Datah	356149		
Type: Blank			EPA 6020			Prep Method:			
Matrix: Water	IVI	etnoa:	EPA 6020			Prep Method:	EPA 3015	A	
QC1206308 Analyte		Result	Qual	Units	RL	MDL Prepar	ed	Analyzed	ł
Cadmium		ND		ug/L	1.0	0.26 11/21/2		11/21/24	
				0	-	,.			
Type: Lab Control S	Sample		Lab ID:	QC120	6309	Bat	ch: 35614	9	
							od: EPA 3		
Matrix: Water			Method:	EPA 60	120	Prep Meth	OU. EFAJ	UISA	
			Method:	EPA 60	20	Prep Meth	OU: EPA J	UISA	
		Resu		EPA 60 biked	Units	Recovery	Qual	Limits	s



Туре:	Lab Control Sa	ample Duplicate		Lab ID:	QC1206310		Batch:	356149	
Matrix:	Water			Method:	EPA 6020	Pre	ep Method:	EPA 3015	5A
QC1206310 A	nalyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Cadmium		90.06	100.0	ug/L	90%		80-120	2	20

ND Not Detected



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

enthalpy.com

Lab Job Number	:	521203
Report Level	:	II
Report Date	:	12/05/2024

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Cindy Schreier	Lab Job #:	521203
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	11/26/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 13	521203-001	11/25/24 10:11	Water
EA-DZUS INFL 5	521203-002	11/25/24 12:45	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 521203 Location: EA-DZUS Date Received: 11/26/24

This data package contains sample and QC results for two water samples, requested for the above referenced project on 11/26/24. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Entha 931 We	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF	A	z	5		S	2 C	D	CUSIODY	~		ch	ain o	f Cus	age ody #	-5	Page $\frac{1}{501903}$ of $\frac{1}{203}$	-		
Orange	Orange, CA 92868														₹_	Analytical Request	tical	Requ	lest			
(1 14) /			C&T LOGIN #	-OGI	# Z			1												_		
Project No:	No:		Sampler:	ler:	Cinc	Cindy Schreier	Ireiel															
Project Name:	Name: EA-DZUS		Report To:	t To:	Cino	Cindy Schreier	Ireiel									_						
EDD Format:	ormat: Rpt Level: 1		IV Company : PRIMA Environmental, Inc.	any :	PRII	MA EI	Ivirol	Inmel	Ital,	lnc.												
Turnarc	ime: DRUSH	X Standard	Telephone: 916-939-7300	hone	916	939-7	300					-	(əte)									
			Email: data@primaenvironmental.com	data	@pri	maen	viron	men	tal.c	Mo	-	_	Vitra	(u								
		Sampling	bu	ž	Matrix		ā	Chemical Preservative	vativ	e		(09	l ,ətstlu	М , Э ,	(IstoT)							
No.	Sample ID.	Date	Time	Vater Soil		# of Containers	HCI	H ³ CO ³	HOPN	anoN		Alkalinty VOCs (826	anions (su	Netals (Cr	muimbeO							
	EA-DZUS Eff 13	11/25/24	10:11	×		2		×		×		-	×		×	-		-				
	EA- DZUS Infl 5	11/25/24	12:45	×		2		Ê	×	×			×		×			-				
																				\square		
																		\vdash				
								+	++			+	++		++	++		+		+		
								-	_				_		-	-		-				
Notes:		SAMPLE RECEIPT	CEIPT	REL	ING	RELINQUISHED BY:	DB	::					RE	U	RECEIVED BY:	BY:						
Anion	Anions not field filtered	□ Intact □ Cold □ On Ice □ Ambient	ld ibient	Mar	iol.	Marian Sudeger PRIMA	they.	22	RIM	ú,	ill'zsizų DATE/TIME	4 TIME	20		Feder	the last					DATE/TIME	IME
											DATE/TIME	IMIT		$\langle \rangle$	TAL	3		-	11/26/24		oव भम DATE/TIME	IME
											DATE/TIME	TIME									DATE/TIME	IME

real 3.5/3.0

SAMPLE REC	EIPT CHECKLIST		10	
Section 1: General Info Date Received: 11/26/24 WO# 521203	Client: Prima Environmental		INI	LAUPY
Section 2: Shipping / Custody	Are custody sea	ls presen	t? 🗆 Ye	s 🗠 No
Custody seals intact on arrival? N/A Yes No Shipping Info:	On cooler / box On samples			
Section 3a: Condition / Packaging	Outside 0.0 - 6.0°C (0.0 - 10.0°C for mid	crobiolog	y) (PM r	notified)
Date Opened 11/26/24 By (initials) JKC	Type of ice used : 🗹 Wet 🗆 Blue/Gel	Non	e	
Samples received on ice directly from the field; cooling process	ss had begun. (if checked, skip temperatures	5)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if c				
If no cooler: Observed/Adjusted Temp (°C):// Cooler Temp (°C) #1: <u>3.5 /3.0 </u> #2:/ #3:/	Thermometer/IR Gun: <u>IR01</u> #4:/#5:/#6:		CF: <u>-0.5</u>	-
Section 3b: Microbiology Samples	No microbiology sam	ples subr	nitted (skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from	m field.			
Adequate headspace for microbiology analysis.			_	1
Section 3c: Air Samples	🖬 No air san	ples sub	mitted (skip 3c)
□1.4L Canisters □6L Canisters □Tedlar Bags □MC	CE Cassettes 🔲 Sorbent Tubes 🔲 Ot	her		- 12
Section 4: Containers / Labels / Samples		YES	NO	N/A
1) Were custody papers present, filled properly, and legible?		x		
2) Is the sampler's name present on the CoC?		x		
3) Were containers received in good condition (unbroken / unop	ened / uncompromised)?	x		
4) Were the samples bagged? (required for microbiology samples	s; recommended for soil samples)	x		
5) Were all of, and only, the correct samples received?		x		1 7
6) Are sample labels present, legible, and in agreement with the	CoC?	×		1
7) Does the container count match the CoC?		x		
8) Was sufficient sample volume / mass received for the analyses	s requested?	x		-
9) Were samples received in proper containers for the analyses r	equested?	x		
10) Were samples received with > 1/2 holding time remaining?		x		
11) Are samples properly preserved as indicated by CoC / labels?		x	-	
12) Unpreserved VOAs received - If necessary, was the hold time	changed in LIMS?	1		x
13) Are VOA vials free from headspace/bubbles > 6mm?				x
Section 5: Explanations / Comments	1	PM n	otified	
				Ξ
				=
			-	
				_
				_
	in inthe			
Date Logged 11/26/24 By (print) Tris Kelly Date Labeled 11/26/24 By (print) Tris Kelly	(sign) Tim Mar			- C
Date Labeled	(sign)/////			-



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether for direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of exite ordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed with in strict time limits, see current FedEx Service Guide. Written claims must be filed with in strict time limits, see current FedEx Service Guide.



Analysis Results for 521203

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 521203 Location: EA-DZUS Date Received: 11/26/24

Sample ID: EA-	DZUS EI	FF 13			ab ID: atrix:			Collect	ed: 11/25/24 10:1	11
521203-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	ND		mg/L	0.10	0.06	1	356437	11/26/24 14:45	11/26/24 20:26	AJL
Sulfate	15		mg/L	1.0	0.34	1	356437	11/26/24 14:45	11/26/24 20:26	AJL
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	68		ug/L	10	2.6	10	356494	11/26/24	11/26/24	DXC
•		IFL 5	ug/L	La		5212(03-002		11/26/24 ed: 11/25/24 12:4	
Cadmium Sample ID: EA-		IFL 5 Qual	ug/L Units	La	b ID: {	5212(03-002			15
Cadmium Sample ID: EA- 521203-002 Analyte	DZUS IN			La Ma	b ID: { atrix: \	52120 Wate	03-002 r	Collect	ed: 11/25/24 12:4	
Cadmium Sample ID: EA- 521203-002 Analyte Method: EPA 300.0	DZUS IN			La Ma	b ID: { atrix: \	52120 Wate	03-002 r	Collect	ed: 11/25/24 12:4	15
Cadmium Sample ID: EA- 521203-002 Analyte Method: EPA 300.0 Prep Method: METHOD	DZUS IN Result		Units	La Ma RL	b ID: 4 atrix: 1 MDL	52120 Wate	03-002 r Batch	Collector Prepared	ed: 11/25/24 12:4 Analyzed	5 Chemist
Cadmium Sample ID: EA- 521203-002 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	DZUS IN Result 2.2		Units mg/L	La Ma RL 0.10	b ID: 4 atrix: 1 MDL	52120 Wate	03-002 r Batch 356437	Collector Prepared 11/26/24 14:45	ed: 11/25/24 12:4 Analyzed 11/26/24 21:12	I5 Chemist

ND Not Detected



Type: Blank Matrix: Sea Water			D: QC12 d: EPA			Prep M	Batch: 35 Method: M		
QC1207528 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND		mg/L	0.10		11/26/24 08:3	-	1/26/24 10:3	
Sulfate	ND		mg/L	1.0	0.34	11/26/24 08:3	30	1/26/24 10:	32
Type: Lab Control	Sample		Lab II	D: QC12	07529		Batch:	356437	
Matrix: Sea Water			Metho	d: EPA 3	00.0	Prep	Method:	METHOD	
QC1207529 Analyte		Result	S	piked	Units	Recove	ry Qual	Limi	ts
Nitrogen, Nitrate		4.532		4.518	mg/L	100		90-1	10
Sulfate		24.78		25.00	mg/L	99	%	90-1	10
Туре:	Matrix Spike			Lab ID:	QC1207530		Batch	: 356437	
Matrix (Source ID):	•			Method:	EPA 300.0	Pr	ep Method	: METHOD)
			Irce						
QC1207530 Analyte	Result		nple sult	Spiked	Units	Recovery	Qual	Limits	0
Nitrogen, Nitrate	9.854	0.8	3382	9.036	mg/L	100%		80-120	
Sulfate	188.5	1	48.4	50.00	mg/L	80%	E,NM	80-120	
_									
	Matrix Spike	•	•	Lab II				n: 356437	~
Type: Matrix (Source ID):	•	•	•		D: QC120753 d: EPA 300.0		Batch rep Method		D
	Water (52104	•	•						D
Matrix (Source ID):	Water (52104	4-001) Source ample		Method	d: EPA 300.0	Pi	rep Method	RPD	
Matrix (Source ID): QC1207531 Analyte	Water (52104 S Result	4-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery	Qual L	rep Method imits R	RPD PD Lim	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate	Water (52104 S Result 9.923	4-001) Source ample Result 0.8382	Spiked 9.036	Methoo Units mg/L	d: EPA 300.0 Recovery 101%	Qual L	imits R 0-120	RPD PD Lim 1 20	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate	Water (52104 S Result	4-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery	Qual L	rep Method imits R	RPD PD Lim	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate	Water (52104 S Result 9.923 189.0	4-001) Source ample Result 0.8382 148.4	Spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 101%	Qual L	imits R 0-120 0-120	RPD PD Lim 1 20	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate	Water (52104 S S Result 9.923 189.0 Matrix Spike	4-001) Source ample Result 0.8382 148.4	Spiked 9.036	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 101% 81%	Qual L 8(E,NM 80	imits R 0-120 0-120	RPD PD Lim 1 20 20 20	<u> </u>
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52104 S S Result 9.923 189.0 Matrix Spike	4-001) Source ample Result 0.8382 148.4 37-002)	Spiked 9.036	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 101% 81% QC1207532	Qual L 8(E,NM 80	imits R 0-120 0-120 Batch	RPD PD Lim 1 20 20 20	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Water (52104 S S Result 9.923 189.0 Matrix Spike Water (52113	4-001) Source ample Result 0.8382 148.4 37-002) Son Sar	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0	Qual L 80 E,NM 80 Pr	imits R 0-120 0-120 Batch rep Method	RPD PD Lim 1 20 20 : 356437 : METHOD	[)
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte	Water (52104 S S Result 9.923 189.0 Matrix Spike Water (52113 Result	4-001) Source ample Result 0.8382 148.4 37-002) Sor Sar Re	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units	Qual L 80 E,NM 80 Pr Recovery	imits R 0-120 0-120 Batch	E METHO RPD PD 1 20 20 356437 METHOE Limits	[)
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate	Water (52104 S S Result 9.923 189.0 Matrix Spike Water (52113 Result 10.70	4-001) Source ample Result 0.8382 148.4 37-002) Sol Sar Re 1	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L	Qual L 80 E,NM 80 Pr Recovery 99%	imits R 0-120 0-120 Batch rep Method	RPD PD Lim 1 20 20 20 : 356437 : METHOD Limits 80-120	[)
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate	Water (52104 S S Result 9.923 189.0 Matrix Spike Water (52113 Result	4-001) Source ample Result 0.8382 148.4 37-002) Sol Sar Re 1	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units	Qual L 80 E,NM 80 Pr Recovery	imits R 0-120 0-120 Batch rep Method	E METHO RPD PD 1 20 20 356437 METHOE Limits	[)
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52104) S Result 9.923 189.0 Matrix Spike Water (52113 10.70 58.25 Matrix Spike	4-001) Source ample Result 0.8382 148.4 37-002) Sou Sar Re 1 9 Duplicate	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L mg/L mg/L D: QC120753	Qual L 80 E,NM 80 Pr Recovery 99% 98% 3	imits R 0-120 0-120 Batch ep Method Qual Batch	Image: METHO RPD PD Lim 1 20 20 20 Solution of the second]
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate Sulfate	Water (52104) S Result 9.923 189.0 Matrix Spike Water (52113 10.70 58.25 Matrix Spike	4-001) Source ample Result 0.8382 148.4 37-002) Sou Sar Re 1 9 Duplicate	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L mg/L	Qual L 80 E,NM 80 Pr Recovery 99% 98% 3	imits R 0-120 0-120 Batch rep Method	Image: METHO RPD PD Lim 1 20 20 20 Solution of the second)
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Water (52104) S Result 9.923 189.0 Matrix Spike Water (52113) Result 10.70 58.25 Matrix Spike Water (52113) S S	4-001) Source ample Result 0.8382 148.4 37-002) Source ample	Spiked 9.036 50.00 urce nple sult .768 .166	Method mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L mg/L D: QC120753 d: EPA 300.0	Qual L 80 E,NM 80 Pr Recovery 99% 98% 3	imits R 0-120 0-120 Batch ep Method Qual Batch rep Method	Image: METHO RPD PD Lim 1 20 20 20 : 356437 : METHOE Limits 80-120 80-120 356437 : 356437 : METHOE	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207533 Analyte	Water (52104) S Result 9.923 189.0 Matrix Spike Water (52113) Result 10.70 58.25 Matrix Spike Water (52113) Matrix Spike S S S S Result	4-001) Source ample Result 0.8382 148.4 37-002) Source ample Result	Spiked 9.036 50.00 50.00 	Method mg/L mg/L Lab ID: Method: 9.036 50.00 Lab IE Method	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L mg/L D: QC120753 d: EPA 300.0	Qual L 80 E,NM 80 Pr Recovery 99% 98% 3 Pr Qual Li	imits R 0-120 0-120 Batch ep Method Qual Batch rep Method	I: METHO PD Lim 1 20 20 20 : 356437 : METHOD B0-120 80-120 i: 356437 : METHOD PD Limits B0-120 B0-120 I: METHOD I: METHOD I: METHOD I: METHOD	
Matrix (Source ID): QC1207531 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1207532 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52104) S Result 9.923 189.0 Matrix Spike Water (52113) Result 10.70 58.25 Matrix Spike Water (52113) S S	4-001) Source ample Result 0.8382 148.4 37-002) Source ample	Spiked 9.036 50.00 urce nple sult .768 .166	Method mg/L mg/L Lab ID: Method: 9.036 50.00 Lab II Method	d: EPA 300.0 Recovery 101% 81% QC1207532 EPA 300.0 Units mg/L mg/L D: QC120753 d: EPA 300.0	Qual L 80 E,NM 80 E,NM 80 Pr Recovery 99% 98% 3 Pr Qual Li 80 Qual Li	imits R 0-120 0-120 Batch ep Method Qual Batch rep Method	Image: METHO RPD PD Lim 1 20 20 20 : 356437 : METHOE Limits 80-120 80-120 356437 : 356437 : METHOE)



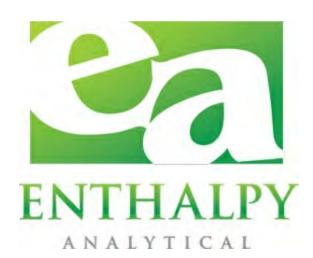
Type: Blank	Lab I	D: QC120	07699			Batch: 3	356494	1	
Matrix: Water	Metho	d: EPA 6	020		Prep	Method: E	EPA 30)15 A	
QC1207699 Analyte	Resu	ult Qual	Units	RL	MDL	Prepared	ł	Analyzed	ł
Cadmium	Ν	1D	ug/L	1.0	0.26	11/26/24		11/26/24	
_									
Type: Lab Control Matrix: Water	I Sample		b ID: QC120 hod: EPA 6		Di	Batch rep Method	h: 356		
		INEL	IIOU. EFA C	020	FI	ер мешоо	1. EF.	A JUIJA	_
QC1207700 Analyte	F	Result	Spiked	Units	Re	ecovery	Qual	Limits	s
Cadmium		94.07	100.0	ug/L		94%		80-12	0
Туре	Matrix Spike		Lab ID:	QC1207701		Ba	toh: (356494	
Matrix (Source ID):	•)01)		EPA 6020				EPA 3015A	
			mothour						_
		Source							
QC1207701 Analyte	Result	Sample Result		Units	Reco	overy Qua	al	Limits	D
Cadmium	95.22	ND	•			95%		75-125	
Туре:	Matrix Spike Dup	olicate	Lab II	D: QC120770	2	Ba	atch:	356494	
Matrix (Source ID):	Water (521211-00	01)	Method	d: EPA 6020		Prep Meth	hod:	EPA 3015A	
	Sou Sam							RPD	
QC1207702 Analyte	Result Res	•	iked Units	Recovery	v Qual	Limits	R	PD Lim	D
Cadmium	98.58	ND 1	00.0 ug/L	99%)	75-125		3 21	
Туре:	Matrix Spike		Lab ID:	QC1207703		Ba	toh: (356494	
Matrix (Source ID):	•)01)		EPA 6020				EPA 3015A	
, , , , , , , , , , , , , , , , , , , ,									
		Source							
QC1207703 Analyte	Result	Sample Result		Units	Reco	overy Qua	al	Limits	D
Cadmium	96.58	ND	•			97%		75-125	
				-					
Туре:	Matrix Spike Dup	olicate	Lab II	D: QC1207704	4	Ba	atch:	356494	
Matrix (Source ID):	Water (521229-00	01)	Method	d: EPA 6020		Prep Meth	hod:	EPA 3015A	
	C	~~~							
	500	rce						RPD	
		ple						DED	
QC1207704 Analyte	Sam Result Res	sult Sp	iked Units 00.0 ug/L	Recovery 99%		Limits 75-125	RI	PD Lim 2 21	DI

E Response exceeds instrument's linear

E range

ND Not Detected

NM Not Meaningful



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

enthalpy.com

Lab Job Number	:	523006
Report Level	:	II
Report Date	:	01/02/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	523006
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	12/24/24
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 1-122324	523006-001	12/23/24 07:40	Water
EA-DZUS EFF 1-122324 (F)	523006-002	12/23/24 07:40	Water
EA-DZUS INFL 1-122324	523006-003	12/23/24 14:40	Water
EA-DZUS INFL 1-122324 (F)	523006-004	12/23/24 14:40	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 523006 Location: EA-DZUS Date Received: 12/24/24

This data package contains sample and QC results for four water samples, requested for the above referenced project on 12/24/24. The samples were received cold and intact.

Metals (EPA 6020) Water:

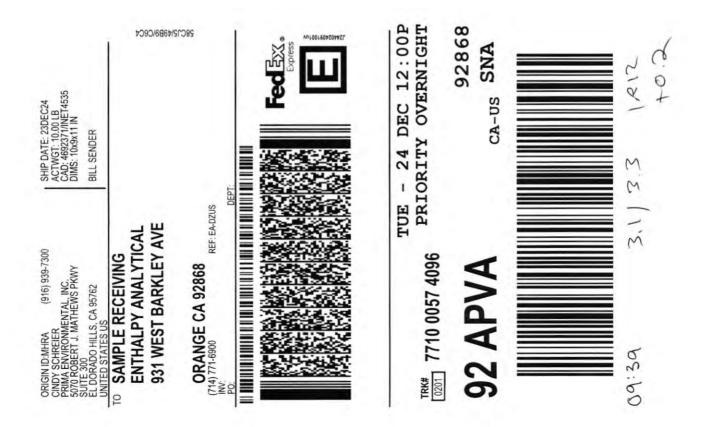
No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Entha 931 Wes	Enthalpy Analytical LLC 931 West Barkley Ave		CH		AIN OF CUSTODY	ц	С С	S			7		Cha	in of	Page_	Je	Chain of Custody # : 525006	-	
Orange,	Orange, CA 92868													A	Analytical Request	al Re(quest		
(714) 77	(714) 771-6900 Phone		C&TL	LOGIN #	#			- 25						_					
Project No:	4o:		Sampler:	er:	Cindy Schreier	Schre	ier			-				-					
Project Name:	Vame: EA-DZUS		Repor	t To:	Report To: Cindy Schreier	Schre	ier												
EDD Format:		Rpt Level: D II D III V Company : PRIMA Environmental, Inc.	IV Comp	any :	PRIMA	Envi	ronm	ental	, Inc.										
Turnarou	Turnaround Time: KRUSH DS	Contract Standard	Telepl	none:	Telephone: 916-939-7300	89-73	00					(əte)		(,	_			
			Email	data	Email: data@primaenvironmental.com	aenvii	omno.	ental.	com			Nitre	(u	_					
	Ē	Sampling	бu	Matrix	trix		Pres	Chemical Preservative	al		(09	l ,ətetlu	М ,9Я ,						
No.	Sample ID.	Date	Time	Vater Soil	10 #	Containers	H ⁵ 20 [⊄] HCI	[©] ONH	HOsN 9noN		VOCs (826	us) snoins	Netals (Cr	muimbe) muimbe)					
	EA-DZUS Eff 1-122324	12/23/34	7:40	×		-		×			-			×					
	EA- DZUS Eff 1-122324 (F)	12/23/24	7:40	×		-		×			_			×					
	EA-DZUS Infl 1-122324	12/23/24	14:40	×		1		×			_			×					
	EA-DZUS Infl 1-122324 (F)	12/23/24	14:40	×		-		×						×					
											+++								
									+++		+++			+++					
Notes:		SAMPLE RECEIPT	CEIPT	REL	RELINQUISHED BY:	SHED	BY:				-	RE	CEIV	RECEIVED BY:	BY:				
5 day TAT	-AT	□ Intact □ Cold □ On Ice □ Ambient	ld hbient	Ma	March Strokingen PRINA DATENTIME	Buck	mpen	P	MA	17 DATE	12)23/24	7	1ª	Fed Ex	51				DATE/TIME
Samples	Samples labeld (F) are field filtered					-	>			DATE	DATE/TIME		Bent G.	Ċ		2	42/22/21		DATE/TIME
										DATE	DATE/TIME								DATE/TIME

SAMPLE RECEIPT CHECKLIST		1 P	
Section 1: General Info		ENT	HAUY
Date Received: 12/24/24 WO# 523006 Client: EA - 0245	-1		-
Section 2: Shipping / Custody Are custody se Custody seals intact on arrival? 🗹 N/A 🗇 Yes 🗇 No 🗇 On cooler / box 🗇 On samples	ais preser	nt? 🗆 Ye	s La No
Shipping Info: Fe Dex			
Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for m	icrobiolog	gy) (PM i	notified
Date Opened <u>내내</u> By (initials) <u>DEF</u> Type of ice used : IZ Wet I Blue/Gel	Nor	ne	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	2S)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			_
If no cooler: Observed/Adjusted Temp (°C): / Thermometer/IR Gun:			
Cooler Temp (°C) #1: <u>2.\ / 3.3</u> #2:/ #3:/ #4:/ #5:/ #6:			
Section 3b: Microbiology Samples 🛛 📓 No microbiology sam	nples sub	mitted (skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples 🛛 No air sa		mitted (skip 3c)
□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □ 0	1		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	1		1000
2) Is the sampler's name present on the CoC?			-
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	1		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	-		/
5) Were all of, and only, the correct samples received?	1		L.
6) Are sample labels present, legible, and in agreement with the CoC?	1	_	
7) Does the container count match the CoC?	1		
8) Was sufficient sample volume / mass received for the analyses requested?	1		
9) Were samples received in proper containers for the analyses requested?	1		1
10) Were samples received with > 1/2 holding time remaining?	1		
11) Are samples properly preserved as indicated by CoC / labels?	/	-	E
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			1
13) Are VOA vials free from headspace/bubbles > 6mm?			/
Section 5: Explanations / Comments	DPM n	otified	
		otined	_
			_
Date Logged 12 /24 / 24 By (print) JETH CO (sign)			
Date Labeled 12 / 24 (24 By (print) JETH CO (sign)			



After printing this label. CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from your actual loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of evice Guide. Written claims must be filed weelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Analysis Results for 523006

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 523006 Location: EA-DZUS Date Received: 12/24/24

Sample ID: EA-DZU	JS EFF 1-	122324			b ID: 5 atrix: V		6-001	Collecte	d: 12/23/24 0	7:40
523006-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	1.2		ug/L	1.0	0.26	1	358827	12/24/24	12/24/24	DXC
Sample ID:					523006-	002		Collected:	12/23/24 07:4	40
EA-DZUS EFF 1-122324	(F)		Ma	atrix:	Filtrate					
523006-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAna	alysis									
Cadmium	0.44	J	ug/L	1.0	0.39	1	358829	12/24/24	12/24/24	DXC
Sample ID:			Lab	D: 52	3006-00	3		Collected:	12/23/24 14:4	0
EA-DZUS INFL 1-122324				ix: W						
523006-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
	560		ug/L	10	2.6	10	358827	12/24/24	12/24/24	DXC
Prep Method: EPA 3015A	560		•	10 ab ID:			358827	,_ ,	12/24/24 12/23/24 14:	
Prep Method: EPA 3015A Cadmium			La	ab ID:		-004	358827	,_ ,	,	
Prep Method: EPA 3015A Cadmium Sample ID: EA-DZUS INFL 1-122324 523006-004 Analyte		Qual	La	ab ID:	523006	-004	358827 Batch	,_ ,	,	
Sample ID:	(F) Result	Qual	La	ab ID: atrix:	523006 Filtrate	-004		Collected:	12/23/24 14:	40

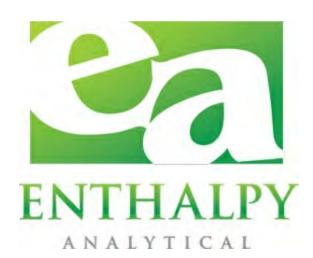
J Estimated value

1 of 1



Type: Blank Matrix: Water		DID: QC12 od: EPA	215303 6020		Prep	Batch: Method:			
					•				
QC1215303 Analyte	Re	sult Qua		RL	MDL	Prepare		Analy	
Cadmium		ND	ug/L	1.0	0.26	12/24/24	4	12/24	/24
Type: Lab Contro	I Sample	L	ab ID: QC12	15304		Bato	ch: 35	8827	
Matrix: Water		Me	ethod: EPA 6	6020	Pi	rep Metho	d: EF	A 3015A	
QC1215304 Analyte		Result	Spiked	Units	Re	ecovery	Qual	Lir	nits
Cadmium		99.31	100.0	ug/L		99%		80-	-120
Туре	: Matrix Spike		Lab ID:	QC1215305		B	atch	358827	
Matrix (Source ID)	•	-001)		EPA 6020				EPA 3015	A
		Sourc	e						
		Samp	le		_				_
QC1215305 Analyte	Result	Resu			Reco		ual	Limits	D
Cadmium	93.39	N	ID 100.0	ug/L		93%		75-125	
Туре:	Matrix Spike Du	uplicate	Lab II	D: QC12153	06	В	Batch:	358827	
Matrix (Source ID):	Water (520988-	001)	Metho	d: EPA 6020		Prep Me	thod:	EPA 301	5 A
		ource							
QC1215306 Analyte		mple esult S	piked Units	Recove	ry Qual	Limits	D	RPD PD Lim	D
Cadmium	91.91		100.0 ug/L	92	-	75-125		2 21	
Type: Blank	Lab ID:	QC12153	00		Batch: 3	50000			
Matrix: Filtrate		EPA 6020				56629 00.8 Direc	tAnaly	vsis	
001015200 Archite	De		al Unita	DI	MDI	Drenero	al	Analu	
QC1215308 Analyte Cadmium	Re	sult Qua ND	al Units ug/L	RL 1.0	MDL 0.39	Prepare 12/24/24		Analy: 12/24	
Type: Lab Control Matrix: Filtrate	Sample		QC1215309 EPA 6020	Dro		h: 358829 d: 200.8		Analysia	
		Method:	EPA 0020	FIE	p Method	u: 200.0	Direct	Allalysis	
QC1215309 Analyte		Result	Spiked	Units	Re	ecovery	Qual		nits
Cadmium		99.72	100.0	ug/L		100%		80-	-120
	ample Duplicate		Lab ID: QC12	215310	B	atch: 358	3829		
Type: Lab Control S									
Type: Lab Control S Matrix: Filtrate			lethod: EPA	6020	Prep Met	hod: 200).8 Dire	ectAnalys	IS
			ethod: EPA	6020	Prep Met	hod: 200).8 Dire	ectAnalys	
	Result		ed Units	6020 Recove	ry Qua		iits	ectAnalys RPD 3	RPD Lim 20

ND Not Detected



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

enthalpy.com

Lab Job Number	:	523225
Report Level	:	П
Report Date	:	01/08/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	523225
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	12/31/24
Pkwy		,
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 2-123024	523225-001	12/30/24 07:48	Water
EA-DZUS EFF 2-123024 (F)	523225-002	12/30/24 07:48	Water
EA-DZUS INFL 2-123024	523225-003	12/30/24 14:45	Water
EA-DZUS INFL 2-123024 (F)	523225-004	12/30/24 14:45	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 523225 Location: EA-DZUS Date Received: 12/31/24

This data package contains sample and QC results for four water samples, requested for the above referenced project on 12/31/24. The samples were received cold and intact.

Metals (EPA 6010B) Water:

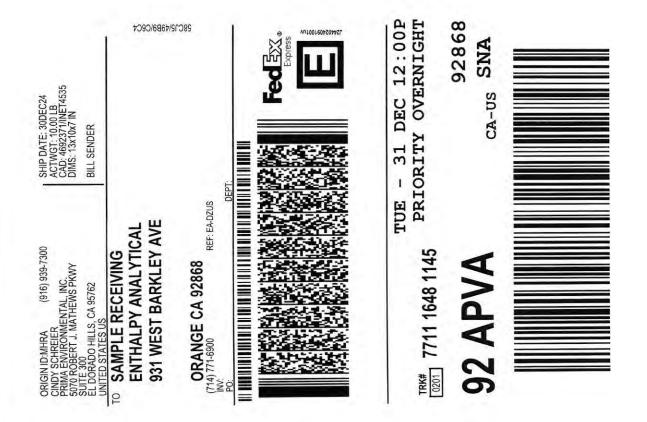
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:

No analytical problems were encountered.

			,								-	-		ICON		-
	0 0	C&T LOGIN # 5 2.3 225	** 2 ²	322	5											
Project Name: EA-DZUS	א מ	Sampler: Undy Schreier Report To: Cindy Schreier	Cindy Schreier Cindy Schreier	chreier			1									
EDD Format: Rpt Level:	Rpt Level: II III IV Company : PRIMA Environmental, Inc.	ompany :	PRIMA E	inviror	nem	tal, II	JC.			-						
Turnaround Time: XRUSH D Standard	ard T	Telephone: 916-939-7300	916-939-	7300					((2)	_	(
	ш	Email: data@primaenvironmental.com	@primae	nviron	ment	al.co	E					pəv	_			
	Sampling	Ma	Matrix	- T	Chemical Preservative	vative	0	(09	131.		A	lossiD)				
Lab No.	Date Ti	Time Water Soil	to #	HCI	⁸ ONH ⁷ OS ⁷ H	HOBN	anoN	VOCs (820	Alkalinty	anions (su Metals (Cr	muimbeO	muimbeO				
	12/30/34 7:	7:48 x	-		×					-						
(L	12/30/24 7:	48 x	1		×							×				-
-	12/30/24 14	14:45 x	1		×				-	_	×					-
EA-DZUS Infl 2-123024 (F) 1	12/30/24 14	14:45 x	-		×						-	×				
					+		Т		+	+						-
					+				+	-	-	_		-		-
							П		$\left \right $	$\left \right $						\square
					-				-	-				-		-
					_											
					\mathbb{H}		Н	Ц	+	+						
Notes:	SAMPLE RECEIPT		RELINQUISHED BY:	ED B					2	EC	INE	RECEIVED BY:				
	□ Intact □ Cold □ On Ice □ Ambient	ma	Marial Stickingen	When	fer	PRI	PRINA DATE/TIME	12130124 DATE/TIME		@16:15	Fed	dEX			DATE/TIME	TIME
Samples labeld (F) are field filtered							DA	DATE/TIME	VE (9	N	2	602	2115	DATI	1010
		_					DA	DATE/TIME	JE	9					DATE/TIME	TIME

Custody seals intact on arrival? N/A Yes No On cooler / box On samples Shipping Info:	e custody seals present? Yes INO a samples 10.0°C for microbiology) (PM notified) Blue/Gel None temperatures) /IR Gun:CF: // robiology samples submitted (skip 3b) I No air samples submitted (skip 3c) bes Other YES NO N/A X X X I X I X I X I X I X I X I X I X
Section 2: Shipping / Custody Are custody seals present?! Custody seals intact on arrival? N A Yes No On cooler / box On samples Shipping Info:	e custody seals present? Yes INO a samples 10.0°C for microbiology) (PM notified) Blue/Gel None temperatures) /IR Gun:CF: // robiology samples submitted (skip 3b) I No air samples submitted (skip 3c) bes Other YES NO N/A X X X I X I X I X I X I X I X I X I X
Custody seals intact on arrival? 🖾 N/A 🗋 Yes 🗋 No 🗋 On cooler / box 🗋 On samples Shipping Info:	10.0°C for microbiology) (PM notified) □ Blue/Gel □ None temperatures)
Shipping Info: Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) Date Opened 12/31/24 By (initials) GCK Type of ice used : IZ Wet Blue/Gel None Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: CF; Cooler Temp (*C) #1: 5.6 / 5.7 #2: / #3: / #4: #5: / #6:	10.0°C for microbiology) (PM notified) □ Blue/Gel □ None temperatures)
Section 3a: Condition / Packaging □ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) Date Opened 12/31/24 By (initials) GCK Type of ice used : IZ Wet □ Blue/Gel □ None □ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) □ Thermometer/IR Gun:CF; □ Cooler: Observed/Adjusted Temp (*C):/ #3:#4:#5:#6: □ Certice Therm (*C) #1: <u>5.6</u> <u>5.7</u> <u>#2:#3:#4:#4:#5:#6:</u>	□ Blue/Gel □ None temperatures) /IR Gun:CF: /#6:/ robiology samples submitted (skip 3b) ■ No air samples submitted (skip 3c) bes □ Other YES NO N/A X □ X Ies) X □ 1 X □
Date Opened 12/31/24 By (initials) GCK Type of ice used : IZ Wet Blue/Gel None Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C):/	□ Blue/Gel □ None temperatures) /IR Gun:CF: /#6:/ robiology samples submitted (skip 3b) ■ No air samples submitted (skip 3c) bes □ Other YES NO N/A X □ X Ies) X □ 1 X □
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: CF: Cooler Temp (*C) #1: 5.6 / 5.7 #2: / #3: / #4: / #5: / #6: / / / / / / / / / / / / / / / / / / /	temperatures) /IR Gun:CF: /#6:/ robiology samples submitted (skip 3b) No air samples submitted (skip 3c) bes Other YES NO N/A X X X Ies) X X Ies) X X X X X X X X X X X X X X X X X X X
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If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: CF: Cooler Temp (*C) #1: 5.6 / 5.7 #2: / #3: / #4: / #5: / #6: Section 3b: Microbiology Samples In No microbiology samples submit Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples In 1.4L Canisters G Containers / Labels / Samples Mere custody papers present, filled properly, and legible? 1) Were custody papers present on the CoC? 2) Is the sampler's name present on the CoC? 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) x 5) Were all of, and only, the correct samples received? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received in proper containers for the analyses requested? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	#6: robiology samples submitted (skip 3b) Image: Submitted (skip 3c) Image: Submitte
Cooler Temp (*C) #1: <u>5.6</u> / <u>5.7</u> #2:	#6: robiology samples submitted (skip 3b) Image: Submitted (skip 3c) Image: Submitte
Section 3b: Microbiology Samples Image: Nomicrobiology samples submit Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples Image: No air samples submit 1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	Trobiology samples submitted (skip 3b) Trobiology samples submitted (skip 3c) Trobi
Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	No air samples submitted (skip 3c) bes Other YES NO N/A x x x les) x x x x x x x x x x x x x x
Adequate headspace for microbiology analysis. Section 3c: Air Samples INo air samples submit 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	bes Other YES NO X X X X X X Ies) X X X X X X X X X X X X X X X X X X X X X X X X X
Section 3c: Air Samples In o air samples submit 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES YES YES YES 1) Were custody papers present, filled properly, and legible? x 3 2) Is the sampler's name present on the CoC? x 3 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) x 5 5) Were all of, and only, the correct samples received? x 4 6) Are sample labels present, legible, and in agreement with the CoC? x 5 7) Does the container count match the CoC? x 5 8) Was sufficient sample volume / mass received for the analyses requested? x 5 9) Were samples received in proper containers for the analyses requested? x 1 10) Were samples received with > 1/2 holding time remaining? x 1 11) Are samples properly preserved as indicated by CoC / labels? x 12 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? X	bes Other YES NO X X X X X X Ies) X X X X X X X X X X X X X X X X X X X X X X X X X X X
1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	bes Other YES NO X X X X X X Ies) X X X X X X X X X X X X X X X X X X X X X X X X X
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12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	x
	x
13) Are VOA vials free from headspace/bubbles > 6mm?	x
	x
Section 5: Explanations / Comments	PM notified



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recover y cannot exceed actual doss under forms of terms of estimate to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual dosrumented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits.



Analysis Results for 523225

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 523225 Location: EA-DZUS Date Received: 12/31/24

Sample ID: EA-DZL	JS EFF 2-	123024			b ID: 5 atrix: W		5-001	Collecte	d: 12/30/24 0	7:48
523225-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3015A										
Cadmium	1.7	J	ug/L	5.0	0.96	1	359244	12/31/24	12/31/24	CAP
Sample ID:					523225-	002		Collected:	12/30/24 07:4	48
EA-DZUS EFF 2-123024	(F)		Ма	atrix:	Filtrate					
523225-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: 200.7 DirectAna	alysis									
Cadmium	0.36	J	ug/L	5.0	0.31	1	359242	12/31/24	12/31/24	CAP
Sample ID:			Loh		0005 00	•				
					マンショーロー	- X		(Collected)	12/30/24 14.4	5
EA-DZUS INFL 2-123024				ix: W	3225-00 ater	3		Collected:	12/30/24 14:4	5
EA-DZUS INFL 2-123024	Result	Qual		-		DF	Batch	Collected: Prepared	12/30/24 14:4 Analyzed	-
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B		Qual	Matr	ix: W	ater	-	Batch			-
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B		Qual	Matr	ix: W	ater	-	Batch 359244			-
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B Prep Method: EPA 3015A	Result	Qual	Matr Units ug/L	ix: W	MDL 0.96	DF		Prepared 12/31/24	Analyzed	Chemist CAP
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B Prep Method: EPA 3015A Cadmium	Result 570	Qual	Matr Units ug/L	ix: W RL 5.0	MDL 0.96	DF		Prepared 12/31/24	Analyzed 12/31/24	Chemist
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B Prep Method: EPA 3015A Cadmium Sample ID: EA-DZUS INFL 2-123024 523225-004 Analyte	Result 570	Qual	Matr Units ug/L	ix: W RL 5.0	ater MDL 0.96 523225	DF		Prepared 12/31/24	Analyzed 12/31/24	Chemist
EA-DZUS INFL 2-123024 523225-003 Analyte Method: EPA 6010B Prep Method: EPA 3015A Cadmium Sample ID:	Result 570 (F) Result		Matr Units ug/L	ix: W RL 5.0 ab ID: atrix:	0.96 523225 Filtrate	DF 1 -004	359244	Prepared 12/31/24 Collected:	Analyzed 12/31/24 12/30/24 14:	Chemis CAP 45

J Estimated value

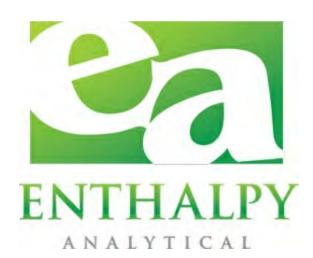


Type: Blank	Lab	ID: QC12	16738				Batch:	35924	4	
Matrix: Water		od: EPA				Prep	Method:			
						-				
QC1216738 Analyte	Res	sult Qua	l	Units	RL	MDL	Prepar		Analy	
Cadmium		ND		ug/L	5.0	0.96	12/31/2	24	12/31	/24
Type: Lab Contro	ol Sample			QC121				ch: 3		
Matrix: Water		Ме	thod:	EPA 60)10B	F	Prep Meth	od: E	PA 3015A	
QC1216739 Analyte		Result	Sn	iked	Units	F	Recovery	Qual	lir	nits
Cadmium		367.7		00.0	ug/L		92%	Quu		120
					- 3					-
Туре	: Matrix Spike		L	ab ID:	QC1216740		E	Batch:	359244	
Matrix (Source ID)	•	001)	Ме	ethod:	EPA 6010B		Prep Me	thod:	EPA 3015	A
							-			
		Source	-							
QC1216740 Analyte	Result	Sample Resul		Spiked	Units	Rec	overy C	Qual	Limits	DF
Cadmium	366.6	N		400.0	ug/L	nec	92%	xuui	75-125	1
					- 0					
Type:	Matrix Spike Du	plicate		Lab ID:	: QC121674	41		Batch:	359244	
Matrix (Source ID):	Water (523220-0)01)	ľ	Method	EPA 6010	в	Prep Me	ethod:	EPA 301	5A
		urce								
QC1216741 Analyte		nple esult Sr	oiked	Units	Recover	ry Qua	I Limit	s F	RPD RPD Lim	DF
Cadmium	372.1	•	400.0	ug/L	939	•	75-12	-	2 20	1
				-						
Type: Blank										
туре: Біанк	Lab ID:	QC121673	34		E	Batch:	359242			
Matrix: Filtrate		QC121673 EPA 6010					359242 200.7 Dire	ctAnal	ysis	
								ctAnal	ysis	
Matrix: Filtrate QC1216734 Analyte	Method: Res	EPA 6010 sult Qua	В	Units	Prep Me RL	ethod: 2	200.7 Dire Prepar	ed	Analy	
Matrix: Filtrate	Method: Res	EPA 6010	В	Units ug/L	Prep Me	ethod:	200.7 Dire	ed	-	
Matrix: Filtrate QC1216734 Analyte Cadmium	Method: Res	EPA 6010 sult Qua ND	B	ug/L	Prep Me RL	MDL 0.31	200.7 Dire Prepar 12/31/2	ed 24	Analy	
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control	Method: Res	EPA 6010 sult Qua ND Lab ID:	B II QC12	ug/L 16735	Prep Me RL 5.0	MDL 0.31	200.7 Dire Prepar 12/31/2 ch: 35924	ed 24 42	Analy: 12/31	
Matrix: Filtrate QC1216734 Analyte Cadmium	Method: Res	EPA 6010 sult Qua ND	B II QC12	ug/L 16735	Prep Me RL 5.0	MDL 0.31	200.7 Dire Prepar 12/31/2	ed 24 42	Analy: 12/31	
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate	Method: Res Sample	EPA 6010 sult Qua ND Lab ID: Method:	B QC12 EPA 6	ug/L 16735 5010B	Prep Me RL 5.0 Pre	MDL 0.31 Bate p Metho	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7	ed 24 12 1 Direct	Analy 12/31 Analysis	/24
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control	Method: Res Sample	EPA 6010 sult Qua ND Lab ID:	B II QC12 EPA 6 Sp	ug/L 16735	Prep Me RL 5.0 Pre Units	MDL 0.31 Bate p Metho	200.7 Dire Prepar 12/31/2 ch: 35924	ed 24 42	Analy: 12/31 Analysis	
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte	Method: Res Sample	EPA 6010 sult Qua ND Lab ID: Method: Result	B II QC12 EPA 6 Sp	ug/L 16735 6010B iked	Prep Me RL 5.0 Pre	MDL 0.31 Bate p Metho	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery	ed 24 12 1 Direct	Analy: 12/31 Analysis	/24 nits
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium	Method: Res	EPA 6010 Sult Qua ND Lab ID: Method: A16.2	B QC12 EPA 6 Sp 4	ug/L 16735 6010B iked	Prep Me RL 5.0 Pre Units ug/L	ethod: MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery	ed 24 12 Direct Qual	Analy: 12/31 Analysis	/24 nits
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium	Method: Res Sample Matrix Spike	EPA 6010 sult Qua ND Lab ID: Method: Result 416.2	B QC12 EPA 6 Sp 4 Lab ID	ug/L 16735 6010B iked 00.0	Prep Me RL 5.0 Pre Units ug/L	MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery 104% Batch: 35	ed 24 12 Direct Qual	Analy: 12/31 Analysis	/24 nits 120
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium Type:	Method: Res Sample Matrix Spike	EPA 6010 sult Qua ND Lab ID: Method: Result 416.2	B QC12 EPA 6 Sp 4 Lab ID	ug/L 16735 5010B iked 00.0 : QC12	Prep Me RL 5.0 Pre Units ug/L	MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery 104% Batch: 35	ed 24 12 Direct Qual	Analy: 12/31 Analysis Lir 80	/24 nits 120
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium Type:	Method: Res Sample Matrix Spike	EPA 6010 Sult Qua ND Lab ID: Method: 416.2 04) N Source	B QC12 EPA 6 Sp 4 Lab ID Iethod:	ug/L 16735 5010B iked 00.0 : QC12	Prep Me RL 5.0 Pre Units ug/L	MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery 104% Batch: 35	ed 24 12 Direct Qual	Analy: 12/31 Analysis Lir 80	/24 nits 120
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium Type: Matrix (Source ID):	Method: Res Sample Matrix Spike Filtrate (523225-0	EPA 6010 Sult Qua ND Lab ID: Method: A16.2 O4) N Source Sample	B QC12 EPA 6 Sp 4 Lab ID Iethod: e e	ug/L 16735 5010B iked 00.0 : QC12 : EPA (Prep Me RL 5.0 Pre Units ug/L 216736 6010B	ethod: MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery 104% Batch: 35 ethod: 20	ed 24 12 Qual 59242 00.7 Dir	Analy: 12/31 Analysis Analysis	/24 nits 120 is
Matrix: Filtrate QC1216734 Analyte Cadmium Type: Lab Control Matrix: Filtrate QC1216735 Analyte Cadmium Type:	Method: Res Sample Matrix Spike	EPA 6010 Sult Qua ND Lab ID: Method: 416.2 04) N Source	B QC12 EPA 6 Sp 4 Lab ID Iethod: e e	ug/L 16735 5010B iked 00.0 : QC12	Prep Me RL 5.0 Pre Units ug/L	ethod: MDL 0.31 Bate p Metho F	200.7 Dire Prepar 12/31/2 ch: 35924 od: 200.7 Recovery 104% Batch: 35 ethod: 20	ed 24 12 Direct Qual	Analy: 12/31 Analysis Lir 80	/24 nits 120



Туре:	Matrix Spike	Duplicate	Lab	ID: QC1	216737	Ba	atch: 3592	242		
Matrix (Source ID):	Filtrate (5232	225-004)	Metho	od: EPA	6010B F	rep Met	hod: 200.	7 Direct	Analysis	S
QC1216737 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	1,008	620.1	400.0	ug/L	97%		75-125	0	20	1

ND Not Detected



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

enthalpy.com

Lab Job Number	:	523560
Report Level	:	II
Report Date	:	01/15/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	523560
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	01/08/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 3-010725	523560-001	01/07/25 07:42	Water
EA-DZUS EFF 3-010725 (F)	523560-002	01/07/25 07:42	Water
EA-DZUS INFL 3-010725	523560-003	01/07/25 10:00	Water
EA-DZUS INFL 3-010725 (F)	523560-004	01/07/25 10:00	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 523560 Location: EA-DZUS Date Received: 01/08/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/08/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

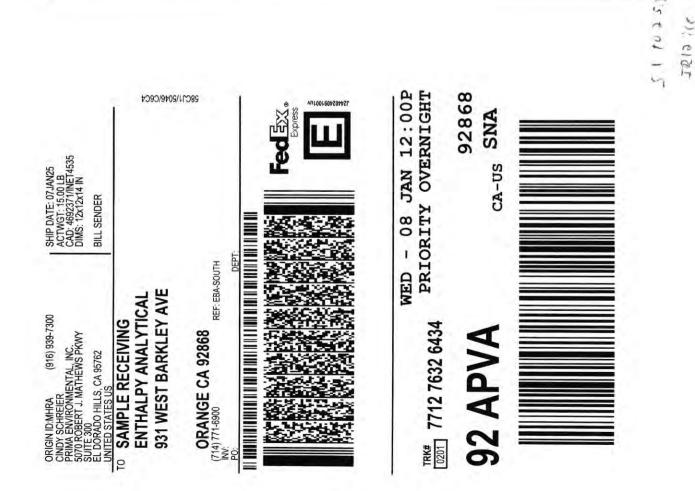
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

1 of 1 : 523560	Request																	Skelly 1/8/2 10 24 DATE/TIME	DATE/TIME
Page1of Chain of Custody # : <u>2كع دد</u>	Analytical Request				55		(u	, Fe, M (Total)	() anoina anoina (Ci anoina) alataM muimbaD muimbaD	×	x X x	x	× × ×			RECEIVED BY:	5 -1745 FedEx	Tuis Rely This welly	
Z					_		_	(09	VOCs (82							1 1	V/7/25 DATE/TIME	DATE/TIME	DATE/TIME
CHAIN OF CUSTODY	2	ľ	chreier	chreier	Rpt Level: III III IV Company : PRIMA Environmental, Inc.	7300	Email: data@primaenvironmental.com	Chemical Preservative	None NaOH HNO ₃ H ₂ SO ₄ HCI	×	x x	×	×××			ED BY:	PRIMA .		
AIN OF	2000	C&T LOGIN #	er: Cindy Schreier	To: Cindy Schreier	INY : PRIMA E	Telephone: 916-939-7300	data@primae	Matrix	Water Soil # of	×	x 2	x 1	x 2			RELINQUISHED BY:	Sch		
CHA		C&T LO	Sampler:	Report To:	V Compa	Telepho	Email: 6	6u	Time	7:42			10:00				d bient		
						□ Standard		Sampling	Date	01/07/25	01/07/25	01/07/25	01/07/25			SAMPLE RECEIPT	□ Intact □ Cold □ On Ice □ Ambient		
Enthalpy Analytical LLC 931 West Barkley Ave	Orange, CA 92868 (714) 771-6900 Phone		No:	Name: EA-DZUS		Turnaround Time: DRUSH DS			Sample ID.	EA-DZUS Eff 3-010725	EA- DZUS Eff 3-010725 (F)	EA-DZUS Infl 3-010725	EA-DZUS Infl 3-010725 (F)				AT	Samples labeld (F) are field filtered	
Enths 931 We	Orange (714) 77		Project No:	Project Name:	EDD Format:	Turnaro			No.							Notes:	5 day TAT	Samples	

SAMPLE RECEIPT CHECKLIST		-
Section 1: General Info		
Date Received: 1/8/25 WO# 523560 Client: Prima Environmental		STRAIP
Section 2: Shipping / Custody Are cust	ody seals present?	Yes No
Custody seals intact on arrival? 🗹 N/A 🗂 Yes 🗔 No 🗔 On cooler / box 🗔 On sam	ples	
Shipping Info:		
Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C	C for microbiology) (I	PM notified)
Date Opened <u>1/8/25</u> By (initials) <u>TLK</u> Type of ice used : ☑ Wet □ Bl	ue/Gel 🗆 None	
\square Samples received on ice directly from the field; cooling process had begun. (if checked, skip temp	eratures)	
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)		
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gu	n: <u>IR11</u> CF:+	0.1
Cooler Temp (°C) #1: <u>5.1 /5.2</u> #2: #3:/ #4:/ #5:/		
Section 3b: Microbiology Samples	ogy samples submitt	ed (skip 3b)
Within temp range 0.0 - 10.0°C or received on ice directly from field.		
Adequate headspace for microbiology analysis.		
수가 뒤집에 가지 않는 것이 있는 것이 같은 것이 것이 많이	air samples submitt	ed (skip 3c)
1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes	Other	-
Section 4: Containers / Labels / Samples	YES N	O N/A
1) Were custody papers present, filled properly, and legible?	x	-
2) Is the sampler's name present on the CoC?	x	
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x	
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	x	
5) Were all of, and only, the correct samples received?	x	
6) Are sample labels present, legible, and in agreement with the CoC?	x	
7) Does the container count match the CoC?	x	
8) Was sufficient sample volume / mass received for the analyses requested?	x	
9) Were samples received in proper containers for the analyses requested?	x	
10) Were samples received with > 1/2 holding time remaining?	x	
11) Are samples properly preserved as indicated by CoC / labels?	x	
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?		x
13) Are VOA vials free from headspace/bubbles > 6mm?		x
Section 5: Explanations / Comments	PM notifi	ed
		1
		-
1: NI	/	
Date Logged 1/8/25 By (print) Tris Kelly (sign) 1/2004 Date Labeled 1/8/25 By (print) Tris Kelly (sign) 1/2004	/	



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

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Analysis Results for 523560

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 523560 Location: EA-DZUS Date Received: 01/08/25

Sample ID: EA	-DZUS E	EFF 3-(010725			Lab ID: Matrix:		Collect	Collected: 01/07/25 07:42				
523560-001 Analyte	R	esult	Qual	Units	RL	. MDI	_ D	F Bate	ch Prepared	Analyzed	Chemist		
Method: EPA 6020													
Prep Method: EPA 3015 Cadmi		1.3		ug/L	1.0	0.095	-	1 3598	02 01/08/25	01/08/25	KAM		
Caulin	luin	1.3		uy/L	1.0	0.03	J	1 3390	02 01/00/23	01/00/23	INAIVI		
Sample ID: EA-DZUS EFF 3-010)725 (F)			L	.ab ID	: 52356	0-00	2	Collected	: 01/07/25 07:42	2		
523560-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemis		
Method: EPA 300.0 Prep Method: METHOD	1												
Nitrogen, Nitrate	0.06	J	mg/L	0.10	0.04	Water	1	359757	01/08/25 14:32	01/08/25 21:38	AJL		
Sulfate	2.2		mg/L	1.0	0.21	Water	1	359757	01/08/25 14:32	01/08/25 21:38	AJL		
Method: EPA 6020 Prep Method: METHOD				1.0	0.55			359777	01/08/25	04/00/05	- DVO		
Cadmium	ND		110/1	1 ()	11 55								
-			ug/L	1.0	0.55	Filtrate	I	559777	01/00/23	01/08/25	DXC		
Sample ID:			ug/L			523560-0) 003	333777		01/07/25 10:00	DAC		
Sample ID: EA-DZUS INFL 3-01			ug/L	Lat	DID:		003	339111			DAC		
EA-DZUS INFL 3-01 523560-003 Analyte	0725	lesult	Qual	Lat	DID: trix:	523560-0 Water			Collected:		Chemist		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020	0725 R	lesult		Lat Ma	DID: trix:	523560-0 Water			Collected:	01/07/25 10:00			
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020	<mark>0725</mark> R	lesult 570		Lat Ma	DID: trix:	523560-(Water _ MDL	D		Collected:	01/07/25 10:00			
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015	0725 R 5A ium	570		Lak Ma Units ug/L	DID: trix: RI	523560-(Water _ MDL	D	F Batc 0 3598	Collected: h Prepared 02 01/08/25	01/07/25 10:00 Analyzed	Chemist KAM		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi Sample ID: EA-DZUS INFL 3-01	0725 R 5A ium	570		Lat Ma Units ug/L	DID: trix: RI	523560-0 Water _ MDL	D	F Batc 0 3598	Collected: h Prepared 02 01/08/25	01/07/25 10:00 Analyzed 01/08/25	Chemist KAM		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi	0725 R 5A ium 0725 (F) Result	570	Qual	Lat Ma Units ug/L	D ID: trix: RI 10 Lab IC	523560-0 Water _ MDL 0 0.95 0: 52356	D 1 50-00	F Batc 0 3598 04	Collected: h Prepared 02 01/08/25 Collected	01/07/25 10:00 Analyzed 01/08/25 : 01/07/25 10:00	Chemist KAM		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 3-01 523560-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	0725 F 5A ium 0725 (F) Result 4.3	570	Qual	Lat Ma Units ug/L RL	0 ID: trix: RI 10 Lab IE MDL	523560-0 Water _ MDL 0 0.95 0: 52356 Matrix Water	D 1 50-00	F Batc 0 3598 04 Batch 359757	Collected: h Prepared 02 01/08/25 Collected Prepared 01/08/25 14:32	01/07/25 10:00 Analyzed 01/08/25 : 01/07/25 10:00 Analyzed 01/08/25 22:19	Chemist KAM Chemis		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 3-01 523560-004 Analyte Method: EPA 300.0 Prep Method: METHOD	0725 R 5A 0725 (F) Result	570	Qual	Lat Ma Units ug/L RL	D ID: trix: RI 10 Lab IE MDL	523560-0 Water - MDL 0 0.95 0: 52356 Matrix	D 1 50-00	F Batc 0 3598 04 Batch	Collected: h Prepared 02 01/08/25 Collected Prepared	01/07/25 10:00 Analyzed 01/08/25 : 01/07/25 10:00 Analyzed	Chemist KAM		
EA-DZUS INFL 3-01 523560-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 3-01 523560-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	0725 R 5A 0725 (F) Result 4.3 15	570	Qual Units	Lat Ma Units ug/L RL	0 ID: trix: RI 10 Lab IE MDL	523560-0 Water _ MDL 0 0.95 0: 52356 Matrix Water	 DF	F Batc 0 3598 04 Batch 359757	Collected: h Prepared 02 01/08/25 Collected Prepared 01/08/25 14:32	01/07/25 10:00 Analyzed 01/08/25 : 01/07/25 10:00 Analyzed 01/08/25 22:19	Chemist KAM Chemis		

J Estimated value

ND Not Detected



Type: Blank Matrix: Water			QC12183 EPA 300.				ch: 35975 od: METH		
QC1218312 Analyte	Result	Qual	Units	RL	MDL	Prepared	ļ	Analyzed	
Nitrogen, Nitrate	ND		mg/L	0.10	0.04	01/08/25 14:32	01/	08/25 17:1	2
Sulfate	ND		mg/L	1.0	0.21	01/08/25 14:32	01/	08/25 17:1	2
Type: Lab Contro Matrix: Water	l Sample		Lab II Metho	D: QC12 d: EPA 3		Prep M	Batch: 35 ethod: MI		
QC1218313 Analyte		Resu	lt S	piked	Units	Recovery	Qual	Limi	ts
Nitrogen, Nitrate		4.59	6	4.518	mg/L	102%		90-1	10
Sulfate		25.5	1	25.00	mg/L	102%		90-11	10
Type Matrix (Source ID)	•		I	Lab ID: Method:	QC1218340 EPA 300.0		Batch: Method:)
QC1218340 Analyte Nitrogen, Nitrate Sulfate	Resul 13.09 77.39	5 3	Source Sample Result 4.067 27.53	Spiked 9.036 50.00	Units mg/L mg/L	Recovery 99% 100%	8	.imits 0-120 0-120	DF 1 1
Type: Matrix (Source ID):	•	•	ate		D: QC12183 d: EPA 300.		Batch: Method:		כ
QC1218341 Analyte Nitrogen, Nitrate		Source Sample Result 4.067	Spiked 9.036	Units mg/L	Recovery				DF 1
Sulfate	78.43	27.53	50.00	mg/L	101%				1
Type: Blank Matrix: Water			QC121844 EPA 6020	2		Batch Prep Method:	: 359802 : EPA 301	5A	
QC1218442 Analyte Cadmium	F	Result ND	Qual	Units ug/L	RL 1.0	MDL Prepa 0.095 01/08		Analyze 01/08/2	
Type: Lab Control Matrix: Water	Sample			: QC1218 : EPA 60			itch: 3598 1od: EPA		
QC1218443 Analyte		Resu		piked	Units	Recovery	Qual	Limi	
Cadmium		94.7	1	100.0	ug/L	95%		80-12	20



Туре:	Matrix Spik	(e		Lab ID:	QC1218444		Ba	tch: 3	359802	
Matrix (Source ID):	Water (523	606-002)		Method:	EPA 6020		Prep Met	hod: E	EPA 301	5 A
QC1218444 Analyte Cadmium	Res i 92.	Sa ult F	ource ample Result 0.3650	Spiked 100.0	Units ug/L	Reco	overy Qu 92%	ıal	Limits 75-125	DF
Туре:	Matrix Spike	e Dunlicat	te	Lab ID:	QC1218445	5	B	atch	359802	
Matrix (Source ID):	•	•			EPA 6020	•	Prep Met		EPA 30 ⁻	15A
QC1218445 Analyte	Result 92.33	Source Sample Result 0.3650	Spiked 100.0		Recovery		Limits 75-125	RI	RP PD Lin 0 21	n DF
Type: Blank		Lab ID:				_		h: 359		
Matrix: Filtrate		Method:	EPA 60	20		Pr	ep Methoo	1: ME	THOD	
QC1218364 Analyte		Result	Qual	Units	RL	MDL	Prepare	d	Anal	yzed
Cadmium		ND		ug/L	1.0	0.55	01/08/25	5	01/0	8/25
Type: Lab Control Matrix: Filtrate QC1218365 Analyte Cadmium Cadmium	Sample	Resul 97.95				R	Ba Prep Met ecovery 98%		L	D imits 0-120
Type:	Matrix Spil	ko		Lab ID:	: QC121836	6		Batch	: 35977	7
Matrix (Source ID):	•)		EPA 6020	0	Prep M		: METH	
QC1218366 Analyte	Resi	Sa ult F	ource ample Result	Spiked	Units	Reco	overy Qu		Limits	DF
Cadmium	98.	08	ND	100.0	ug/L		98%		75-125	1
Type: Matrix (Source ID):	Matrix Spik Filtrate (523	-		Lab II Methoo	D: QC121830 d: EPA 6020		Prep M		: 35977 : METH	
QC1218367 Analyte	Result 98.90	Source Sample Result ND	Spiked 100.0		Recovery		Limits 75-125		RP PD Lin 1 21	n DF

ND Not Detected



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

enthalpy.com

Lab Job Number	:	523980
Report Level	:	II
Report Date	:	01/22/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

Miguel Gamboa, Project Manager miguel.gamboa@enthalpy.com

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

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



Sample Summary

Cindy Schreier	Lab Job #:	523980
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	01/15/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 4-011325	523980-001	01/13/25 16:00	Water
EA-DZUS EFF 4-011325 (F)	523980-002	01/13/25 16:00	Water
EA-DZUS INFL 4-011425	523980-003	01/14/25 08:05	Water
EA-DZUS INFL 4-011425 (F)	523980-004	01/14/25 08:05	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 523980 Location: EA-DZUS Date Received: 01/15/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/15/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

1 of 1 523980	Request																DATE/TIME	LPY 10:23 DATE/TIME	DATE/TIME
Page Chain of Custody # :	Analytical Request						(u	, Fe, M (Total)	is) snoins O) sleteM muimbeO muimbeO	×	x x	×	x x			RECEIVED BY:	14:30 FedEX	Juz- ENTHALPY	
Z									VOCs (82								1/14/25	DATE/TIME	DATE/TIME
OF CUSTODY			Cindy Schreier	Cindy Schreier	PRIMA Environmental, Inc.	Telephone: 916-939-7300	ail: data@primaenvironmental.com	Chemical Preservative	None HuO ₃ HCI HCI #CI #CI #CI #CI	1 ×	2 x x	1 x	2 x x			RELINQUISHED BY:	Prinnich Blickengen PRIMA D		
CHAIN OF		C&T LOGIN#				phone: 91(il: data@p	Matrix	Water Soil	×	×	×	×			RELING	Marial		
CH		C&T	Sampler	Repo		Standard Telep	Em	Sampling	Date Time	01/13/25 16:00	01/13/25 16:00	01/14/25 8:05	01/14/25 8:05			SAMPLE RECEIPT	D Intact Cold	35 1212 37 10.2	
Enthalpy Analytical LLC 931 West Barklev Ave	Orange, CA 92868		No:	Name: EA-DZUS	rmat: Rpt Level: D II	ime: DRUSH			Sample ID.	EA-DZUS Eff 4-011325	EA- DZUS Eff 4-011325 (F)	EA-DZUS Infl 4-011425	EA-DZUS Infl 4-011425 (F)					Samples labeld (F) are field filtered	
Entha 931 Wes	Orange,		Project No:	Project Name:	EDD Format:	Turnaro			No.							Notes:	5 day TAT	Sample	

SAMPLE RECEIPT CHECKLIST Section 1: General Info		3	2
Date Received: 01 15 25 WO# 523980 Client: PRIMA		ENI	HALPY
Section 2: Shipping / Custody Are custody s	eals prese	nt? 🗆 Ye	s ØN
Custody seals intact on arrival? 🖉 N/A 🗇 Yes 🗇 No 🗇 On cooler / box 🗇 On samples			
Shipping Info: FEDEX		1 /014	
Section 3a: Condition / Packaging □ Outside 0.0 - 6.0°C (0.0 - 10.0°C for not set of the set of			notified
Date Opened $01/15/25$ By (initials) <u>JKC</u> Type of ice used : Wet \Box Blue/Ge \Box Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatu		ne	
□ Samples received on ce directly from the field, cooling process had begun. (if checked, skip temperature)	(es)		
If no cooler: Observed/Adjusted Temp (°C):// Thermometer/IR Gun:	217	CE. +A	2
Cooler Temp (°C) #1: <u>35/37</u> #2:/#3:/#4:/#5:/#6:			
Section 3b: Microbiology Samples		mitted (skip 3b
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
□ Adequate headspace for microbiology analysis.			
Section 3c: Air Samples	amples sub	mitted	skip 3c
	Other		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	1		
2) Is the sampler's name present on the CoC?	1		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	1		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	1		
5) Were all of, and only, the correct samples received?	1		100
6) Are sample labels present, legible, and in agreement with the CoC?	1		1-
7) Does the container count match the CoC?	/		-
8) Was sufficient sample volume / mass received for the analyses requested?	1		
9) Were samples received in proper containers for the analyses requested?	/		
10) Were samples received with > 1/2 holding time remaining?		1	
11) Are samples properly preserved as indicated by CoC / labels?	/		1
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	1		/
13) Are VOA vials free from headspace/bubbles > 6mm?			/
Section 5: Explanations / Comments	D PM r	otified	
4.10. ANIONS RECEIVED WITH ~5 HOURS OF HOLD TIME REMAINING			
	_		-
Date Logged & 115/25 By (print) JETH CO (sign)	~		
Date Labeled 01 15 25 By (print) JETH CO (sign) 2m			

ORIGIN ID: MHRA (916) 939-7300 CINDY SCHREIER PRIMA ENVIRONMENTAL, INC. SOTO ROBERT J. MATHEWS PKWY SUITE 300 EL DORADO HILLS, CA 95762	SHIP DATE: 14Jan25 ACTWGT: 8.00 LB CAD: 4992371/INET4535 DIMS: 12x8x12 IN BILL SENDER
TO SAMPLE RECEIVING ENTHALPY ANALYTICAL 931 WEST BARKLEY AVE	/EC17/C6C4
ORANGE CA 92868 (714) 771-6900 REF: EA-DZUS	
WED TRK# 7714 2768 9125 PR	ED - 15 JAN 10:30A PRIORITY OVERNIGHT
92 APVA	92868 ca-us SNA
3.5 1212 @10:23 3.7 to2	8

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Analysis Results for 523980

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 523980 Location: EA-DZUS Date Received: 01/15/25

Sample ID: EA	A-DZUS E	EFF 4-(011325			Lab ID: Matrix:			Collecte	ed: 01/13/25 16	:00
523980-001 Analyte	R	esult	Qual	Units	RL	MDL	. D	F Batch	Prepared	Analyzed	Chemist
Method: EPA 6020	- ^										
Prep Method: EPA 3015 Cadm		1.0		ug/L	1.0	0.095	5	1 360424	4 01/15/25	01/15/25	DXC
-											
Sample ID: EA-DZUS EFF 4-011	1325 (F)			L	_ab ID:	: 52398	0-002	2	Collected:	01/13/25 16:00)
523980-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 300.0 Prep Method: METHOD)										
Nitrogen, Nitrate	ND		mg/L	0.10	0.06	Water	1	360383	01/15/25 13:00	01/15/25 15:03	JAA
Sulfate	3.8		mg/L	1.0	0.34	Water	1	360383	01/15/25 13:00	01/15/25 15:03	JAA
Method: EPA 6020 Prep Method: 200.8 Dire Cadmium	ectAnalysi 0.20	is J	ug/L	1.0	0.044	Filtrate	1	360415	01/15/25	01/15/25	DXC
Sample ID:				Lat	DID:	523980-0	102		Collected:	01/14/05 00:05	
						525900-0	103		concercu.	01/14/25 06:05	
EA-DZUS INFL 4-01	1425				trix:		103		ooneeteu.	01/14/25 08:05	
EA-DZUS INFL 4-01 523980-003 Analyte		lesult	Qual			Water	DI	= Batch	Prepared	Analyzed	Chemist
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020	R	lesult	Qual	Ма		Water		= Batch			Chemist
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020	F 5A	lesult 580	Qual	Ма		Water MDL	DI		Prepared		Chemist DXC
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015	F 5A ium	580	Qual	Ma Units ug/L	RL 10	Water MDL	DI	0 360424	Prepared 01/15/25	Analyzed	DXC
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 4-01 523980-004 Analyte	F 5A ium	580	Qual	Ma Units ug/L	RL 10	Water _ MDL) 0.95	DI	0 360424	Prepared 01/15/25	Analyzed 01/15/25	DXC
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 4-01 523980-004 Analyte Method: EPA 300.0	5A iium 1425 (F) Result	580		Ma Units ug/L	RL 1(Lab ID	Water MDL 0 0.95 0: 52398	DI 10 80-00	0 360424 4	Prepared 01/15/25 Collected	Analyzed 01/15/25 : 01/14/25 08:05	DXC
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 4-01 523980-004 Analyte Method: EPA 300.0	5A iium 1425 (F) Result	580		Ma Units ug/L	RL 10 Lab ID MDL	Water MDL 0 0.95 0: 52398	DI 10 80-00	2 360424 4 Batch 360383	Prepared 01/15/25 Collected: Prepared 01/15/25 13:00	Analyzed 01/15/25 • 01/14/25 08:05 Analyzed 01/15/25 16:26	DXC
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 4-01 523980-004 Analyte Method: EPA 300.0 Prep Method: METHOD	F 5A ium 1425 (F) Result	580	Units	Ma Units ug/L RL	RL 10 Lab ID MDL	Water MDL 0 0.95 0: 52398 Matrix	DI 10 80-00	2 360424 4 Batch 360383	Prepared 01/15/25 Collected: Prepared	Analyzed 01/15/25 : 01/14/25 08:09 Analyzed	DXC 5 Chemis
EA-DZUS INFL 4-01 523980-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadm Sample ID: EA-DZUS INFL 4-01 523980-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	F 5A iium 1425 (F) Result 4.2 14	580 Qual	Units mg/L	Ma Units ug/L RL	RL 10 Lab ID MDL	Water MDL 0 0.95 0: 52398 Matrix Water	DI 10 80-00	2 360424 4 Batch 360383	Prepared 01/15/25 Collected: Prepared 01/15/25 13:00	Analyzed 01/15/25 • 01/14/25 08:05 Analyzed 01/15/25 16:26	DXC 5 Chemis JAA

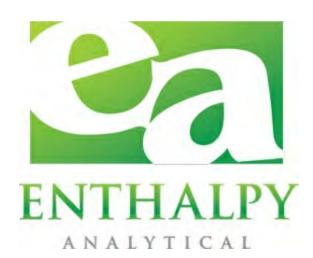
J Estimated value



Type: Blank			Lab ID:	QC12201	85		Ва	atch: 3	60383	
Matrix: Drinking W	/ater			EPA 300.		Р			METHOD	
QC1220185 Analyte	Resul	t Qual	Units	RL	MDL	Prepa			Analyzed	
Nitrogen, Nitrate	N		mg/L	0.10	0.06	01/15/25)1/15/25 14:	
Sulfate	N	0	mg/L	1.0	0.34	01/15/25	13:00	C)1/15/25 14:	21
Turno, Joh Control	Comple		l ah		20186		P	otob.	360383	
Type: Lab Control Matrix: Drinking Wa	-		Lab Mothe	d: EPA					METHOD	
			Metho	JU. EFA	500.0	-		liiou.	METHOD	
QC1220186 Analyte		Resu	lt	Spiked	Units	Rec	overy	Qual	Lim	iits
Nitrogen, Nitrate		4.43		4.518	mg/L		98%		90-1	110
Sulfate		24.4	6	25.00	mg/L		98%		90-1	110
Туре	: Matrix Spil	ke		Lab ID:	QC122018	7		Batch	: 360383	
Matrix (Source ID)	: Water (523	980-002)		Method:	EPA 300.0	1	Prep N	lethod:	METHO	D
			_							
			Source Sample							
QC1220187 Analyte	Resu		Result	Spiked	Units	Recov	very Q	ual	Limits	DF
Nitrogen, Nitrate	8.91	1	ND	9.036	mg/L		9%		80-120	1
Sulfate	52.5	54	3.762	50.00	mg/L	ç	98%		80-120	1
Туре:	Matrix Spik	e Duplica	ate	Lab I	D: QC1220	188		Batch	: 360383	
Matrix (Source ID):	Water (5239	80-002)		Metho	d: EPA 300	.0	Prep I	Method	: METHO	D
		Source							חחח	
QC1220188 Analyte	Result	Sample Result	Spiked	Units	Recover	y Qual	Limits	s R	RPD PD Lim	DF
Nitrogen, Nitrate	8.910	ND	9.036		999		80-120)	0 20	1
Sulfate	52.67	3.762	50.00	-	98%	%	80-120)	0 20	1
Type: Blank			QC122027				Batch:			
Matrix: Water	Μ	lethod:	EPA 6020			Prep M	ethod:	EPA 3	015A	
QC1220272 Analyte		Result	Qual	Units	RL	MDL	Prepare	he	Analyz	ed
Cadmium		ND	didd.	ug/L	1.0	0.095	01/15/2		01/15/2	
				-						
Type: Lab Control	Sample		Lab ID	: QC122	0273		Bate	ch: 36	0424	
Matrix: Water			Method	I: EPA 60)20	Pre			A 3015A	
		-				_		• ·		•• .
QC1220273 Analyte Cadmium		Resu 101.		Spiked 100.0	Units ug/L	Rec	covery 101%	Qual	Lim 80-1	



Type Matrix (Source ID		-001)			QC122027 EPA 6020		Bat Prep Meth	ch: 360		
). Water (524017)	-001)	INE	inou.	EFA 0020	r		ou. Er	A JUIJA	
QC1220274 Analyte	Result	Sourc Sampl Resu	e It S	Spiked	Units	Recov	· ,		imits	DF
Cadmium	93.41	N	D	100.0	ug/L		93%	1	5-125	1
Туре	: Matrix Spike Du	Inlicate		l ab ID [.]	: QC1220	275	Ba	tch: 36	0424	
Matrix (Source ID)	•	•			EPA 60	-	Prep Meth		PA 3015A	
	So	urce mple esult Si	nikod	Units	Recov	very Qual	Limits	RPD	RPD Lim	DF
QC1220275 Analyte Cadmium	99.49		piked 100.0	ug/L		9%	75-125	6	21	1
	55.45	ND	100.0	ug/L		10 78	75-125	0	21	
Туре:	Matrix Spike		Lab ID:			-	tch: 3604	-		
Matrix (Source ID):	Filtrate (524017-0	101) N	lethod:	EPA (6020	Prep Meth	od: 200.	8 Direct	Analysis	
QC1220247 Analyte Cadmium	Result 93.87	Sourc Sampl Resu N	e It S	Spiked 100.0	Units ug/L	Recov	very Qua 94%		imits 5-125	DF
	Matrix Spike Dup		Lab ID		220248		atch: 360	-		
Matrix (Source ID):	Filtrate (524017-0	01)	Method	1: EPA	6020	Prep Met	hod: 200	.8 Direc	tAnalysis	
QC1220248 Analyte	Sa Result Re			Units	Recov	-	Limits	RPD	RPD Lim	DF
Cadmium	92.90	ND	100.0	ug/L	ç	93%	75-125	1	21	1
Type: Blank Matrix: Filtrate	Lab ID: Method:	QC12202			Prep I	Batch: 36 Method: 20		Analysis	6	
					-					
QC1220255 Analyte	Res	sult Qua		Jnits ug/L	RL 1.0	MDL 0.044	Prepared 01/15/25		Analyzed	
Gadinian				uy/L	1.0	0.044	01/13/23		01/13/23	
Type: Lab Control	Sample	Lab ID:	QC122	20256		Batch	: 360415			
Matrix: Filtrate		Method:			Р	rep Method:		irectAna	alysis	
00100056 Analyta		Descrit	0					A		
QC1220256 Analyte		Result	Spi	ked	Units	Rec	covery	Qual	Limits	5



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

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Lab Job Number	:	524484
Report Level	:	II
Report Date	:	01/30/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	524484
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	01/23/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 5-012125	524484-001	01/21/25 07:53	Water
EA-DZUS EFF 5-012125 (F)	524484-002	01/21/25 07:53	Water
EA-DZUS INFL 5-012125	524484-003	01/21/25 15:00	Water
EA-DZUS INF 5-012125 (F)	524484-004	01/21/25 15:00	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 524484 Location: EA-DZUS Date Received: 01/23/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/23/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

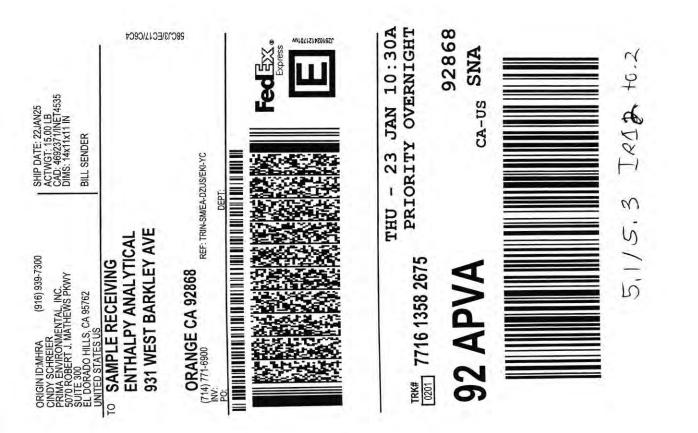
No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

	quest																	NCH 1123125 DATE/TIME	DATE/TIME	DATE/TIME
Page1. Chain of Custodv # :	Analytical Request						(u	r, Fe, M (Total)	s) snoins D) slstəM muimbsD muimbsD	×	×	×	x				RECEIVED BY:	18:30 Fed Ex		
λQ								(09	VOCs (82 Alkalinty									il 22125 DATE/TIME	DATE/TIME	DATE/TIME
CHAIN OF CUSTODY	524484		Cindy Schreier	Cindy Schreier	III IV Company : PRIMA Environmental, Inc.	6-939-7300	Email: data@primaenvironmental.com	 Chemical Preservative 	None NaOH HNO3 HCI HCI # of # of	1 x	1 X	1 x	1 x				RELINQUISHED BY:	Mariah Dudeingen PRIMA DATETIME		-
HAIN	12	C&T LOGIN #	Sampler: Ci		mpany : PF	Telephone: 916-939-7300	nail: data@p	Matrix	a Water Soil	3 ×	3 x	X 00	× 00				RELING	Maria		
Ū		C8	Sa	Re		X Standard Te		Sampling	Date Time	01/21/25 7:53	01/21/25 7:53	01/21/25 15:00	01/21/25 15:00				SAMPLE RECEIPT	□ Intact □ Cold □ On Ice □ Ambient		
Enthalpy Analytical LLC	Orange, CA 92868	(714) 771-6900 Phone	No:	Name: EA-DZUS	ormat: Rpt Level: 0 II	ime: DRUSH			Sample ID.	EA-DZUS Eff 5-012125	EA- DZUS Eff 5-012125 (F)	EA-DZUS Infl 5-012125	EA-DZUS Infl 5-012125 (F)						Samples labeld (F) are field filtered	
Entha	Orange,	(714) 77	Project No:	Project Name:	EDD Format:	Turnaro			Lab No.								Notes:		Sample	

SAMPLE RECEIPT CHECKLIST		10	
Section 1: General Info Date Received: <u>1/23/25</u> WO# <u>5211484</u> Client: <u>PRIMA</u>	_	INI	TATES
Section 2: Shipping / Custody Are custody s	eals presen	t? 🗆 Ye	s IN
Custody seals intact on arrival? 🖾 N/A 🗖 Yes 🗆 No 🗇 On cooler / box 🗇 On samples			
Shipping Info: <u>FedEx</u>			
Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for	ALC: NOT OF STREET, ST		notified
Date Opened <u>1/23/25</u> By (initials) <u>MCM</u> Type of ice used : Wet Blue/Ge		e	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatu	res)		
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)	Toxo.	- +	57
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: Cooler Temp (°C) #1: デュノ ぼっ 3#2: / #3: / #4: / #5: / #6:#6:	1	ur: / 4	
			1.1. 76
Section 3b: Microbiology Samples	amples sub	mitted (SKIP 3D)
Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis. Section 3c: Air Samples	amples sub	mittad	ckin 2c
	Other	mitteu (skip Scj
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) Is the sampler's name present on the CoC?	11		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	×		
5) Were all of, and only, the correct samples received?	X	-	
6) Are sample labels present, legible, and in agreement with the CoC?	X	1	
7) Does the container count match the CoC?	X	1	
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with $> 1/2$ holding time remaining?	X		-
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?		-	X
12) Onpreserved VOAs received on necessary, was the noid time enanged in civits. 13) Are VOA vials free from headspace/bubbles > 6mm?			X
	D PM n	otified	- 1
Section 5: Explanations / Comments	C PM n	otified	
Date Logged 1/23/25 By (print) Mc M (sign) Date Labeled 1/23/25 By (print) MC M (sign)			



After printing this label: COUSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

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Analysis Results for 524484

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 524484 Location: EA-DZUS Date Received: 01/23/25

Sample ID: EA-DZU	IS EFF 5-0	012125		-	b ID: 5 atrix: V	-	I-001	Collecte	d: 01/21/25 ()7:53
524484-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	1.4		ug/L	1.0	0.11	1	361130	01/23/25	01/23/25	DXC
Sample ID: EA-DZUS EFF 5-012125	(F)		-	-	524484 Filtrate	-002		Collected:	01/21/25 07:	53
524484-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAna	alysis									
Cadmium	0.52	J	ug/L	1.0	0.49	1	361121	01/23/25	01/23/25	DXC
Sample ID: EA-DZUS INFL 5-012125				ID: 52 ix: W	4484-00 ater)3		Collected:	01/21/25 15:0	0
524484-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	540		ug/L	10	1.1	10	361130	01/23/25	01/23/25	DXC
Sample ID: EA-DZUS INF 5-012125 (F)			• •	524484- Filtrate	004		Collected:	01/21/25 15:	00
	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
-	nesuit									
524484-004 Analyte Method: EPA 6020 Prep Method: 200.8 DirectAna										

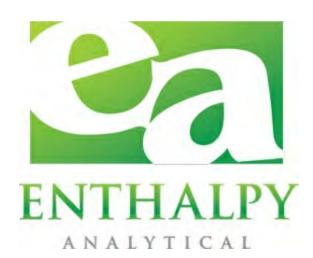
J Estimated value



Type: Blank Matrix: Water		: QC1222 : EPA 602				Batch: 36 ⁻ ethod: EP		
QC1222664 Analyte	Result		Units	RL	MDL	Prepared	Analyz	
Cadmium	ND		ug/L	1.0	0.11	01/23/25	01/23/2	25
Type: Lab Control Matrix: Water	Sample		ID: QC122 od: EPA 60		Prep		361130 EPA 3015A	
QC1222665 Analyte	Re	sult	Spiked	Units	Reco	overy Q	ual Lim	nits
Cadmium	99	9.58	100.0	ug/L	•	100%	80-1	120
Type: Matrix (Source ID):	Matrix Spike Water (524474-00	1)		QC1222666 EPA 6020	Pi		h: 361130 d: EPA 3015/	A
QC1222666 Analyte	Result	Source Sample Result	Spiked	Units	Recove	ery Qual	Limits	DF
Cadmium	100.4	ND	100.0	ug/L	100)%	75-125	1
Type: Matrix (Source ID):	Matrix Spike Dupli Water (524474-001		Lab ID Method	: QC1222667 : EPA 6020			ch: 361130 d: EPA 3015	Ā
QC1222667 Analyte	Sourc Sampl Result Resu	e It Spike		Recovery	v Qual	Limits	RPD RPD Lim	DF
Cadmium	96.56 N	D 100).0 ug/L	97%	>	75-125	4 21	1
Type: Matrix (Source ID):	Serial Dilution Water (524484-00	3)		QC1222711 EPA 6020	Pi		h: 361130 d: EPA 3015 <i>/</i>	A
QC1222711 Analyte Cadmium		esult 548.6	Source Sample Result 541.9	Units ug/L	Qual	RPI	RPD D Lim	DF
Type: Blank Matrix: Filtrate	Lab ID: Q0 Method: EF			Ba	atch: 361 hod: 200	121 .8 DirectAı	nalysis	
QC1222627 Analyte	Result		Units	RL		Prepared	Analyz	
Cadmium	ND	1	ug/L	1.0	0.49	01/23/25	01/23/2	25
Type: Lab Control S Matrix: Filtrate	•	Lab ID: Q lethod: E	C1222628 PA 6020	Prep		361121 200.8 Dire	ectAnalysis	
QC1222628 Analyte		sult	Spiked	Units		overy Q		nits



Type: Matrix (Source ID):	Matrix Spike Filtrate (524484-002)	Lab ID: Method:	QC122262 EPA 6020	-	Batch: ep Method:	361121 200.8 Dir	ectAnalysis	
		Source Sample						
QC1222629 Analyte	Result	•	Spiked Un	its	Recovery	Qual	Limits	DF
Cadmium	100.6	0.5210	100.0 ug	ı/L	100%		75-125	1
Туре:	Matrix Spike Duplicate	e Lab II	D: QC12226	630	Batch:	361121		
Matrix (Source ID):	Filtrate (524484-002)	Metho	d: EPA 602	0 Р	rep Method:	200.8 Di	rectAnalysis	;
QC1222630 Analyte	Source Sample Result Result		Units I	Recovery	Qual Lii	nits F	RPD RPD Lim	DF
Cadmium	99.03 0.5210	100.0	ug/L	99%	75	-125	2 21	1
	Serial Dilution Filtrate (524484-004)	Lab ID: Method:			Batch: ep Method:	361121 200.8 Dir	rectAnalysis	
QC1222631 Analyte	Re		Source Sample Result l	Jnits	Qual	RPD	RPD Lim	DF
Cadmium	5	61.3	551.6	ug/L				50



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Lab Job Number	:	524790
Report Level	:	II
Report Date	:	02/04/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	524790
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	01/28/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 6-012725	524790-001	01/27/25 07:39	Water
EA-DZUS EFF 6-01275 (F)	524790-002	01/27/25 07:39	Water
EA-DZUS INFL 6-012725	524790-003	01/27/25 15:40	Water
EA-DZUS INFL 6-012725 (F)	524790-004	01/27/25 15:40	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 524790 Location: EA-DZUS Date Received: 01/28/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/28/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Enthalpy Analytical LLC CHAIN O 831 West Barklev Ave	68	(714) 771-6900 Phone C&T LOGIN # <u>524 70</u>	Sampler: Cindy	EA-DZUS Report To: Cindy Schreier	Rpt Level: □ II □ III □ IV Company : PRIMA	Turnaround Time: DRUSH A Standard Telephone: 916-939-7300		Sampling	Ample ID. Date Date	EA-DZUS Eff 6-012725 01/27/25 7:39 x	EA- DZUS Eff 6-01275 (F) 01/27/25 7:39 x	EA-DZUS Infl 6-012725 01/27/25 15:40 x	EA-DZUS Infl 6-012725 (F) 01/27/25 15:40 x				SAMPLE RECEIPT RELINQUISHED BY:	□ Intact □ Cold □ On Ice □ Ambient	Samples labeld (F) are field filtered	
CHAIN OF CUSTODY		24-790	Cindy Schreier	Schreier	Company : PRIMA Environmental, Inc.	39-7300	Email: data@primaenvironmental.com	Chemical Preservative	Containers		1 x 1	1 ×	+ ×					OI[27125 2020 DATE/TIME	DATE/TIME	DATE/TIME
Page1of1 Chain of Custodv # :	Analytical Request						(uj	M ,əन , (IstoT)	anions (sroins T) slstəM muimbsD muimbsD	×			×				RECEIVED BY:	17.25 12 H EA DATE/TIME	DATE/TIME	DATE/TIME

SAMPLE RECEIPT CHECKLIST	·	, w	1-1-1
Section 1: General Info			
Date Received: 1/28/25 WO# 524790 Client: PRIMA	<u> </u>	LNI	HALPY
Section 2: Shipping / Custody Are custody se	als presen	t? 🗆 Ye	es 🕅 No
Custody seals intact on arrival? 🗶 N/A 🗖 Yes 🗖 No 🗇 On cooler / box 🗇 On samples			/
Shipping Info: Fed Ex			
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.0°C for m	icrobiolog		notified)
Date Opened $1/28/25$ By (initials) MCH Type of ice used : M Wet \Box Blue/Gel	🗆 Non	e	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperature	es)		
Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)	- k -		
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: Cooler Temp (°C) #1: <u>3.3/</u> #2:/#3:/ #4:#5:#6:	2430	F: H	<u>. C</u>
Cooler Temp (°C) #1: <u>3 .3</u> /#2:/ #3:/ #4:/ #5:/ #6:#6:	_/		
Section 3b: Microbiology Samples 🛛 🖾 No microbiology sam	nples subr	nitted	(skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples		mitted	(skip 3c)
1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes 0			
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	$ \times $		
2) Is the sampler's name present on the CoC?	$\left \times \right $		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	×		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	X		
5) Were all of, and only, the correct samples received?	$ \times $		
6) Are sample labels present, legible, and in agreement with the CoC?	2		
7) Does the container count match the CoC?	X		8 5 45 4 5 5 5 5 1 F 10
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	$\left \times \right $		
11) Are samples properly preserved as indicated by CoC / labels?	$\left \times \right $		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			\times
13) Are VOA vials free from headspace/bubbles > 6mm?			X
Section 5: Explanations / Comments	🗆 PM no	otified	
Date Logged 1/28/25 By (print) MCH (sign)	\geq		
Date Labeled 1/28/25 By (print) DEP (sign) Druc P.			



After printing this label: CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Pisce label in shipping pouch and aftir it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from fedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed must time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Analysis Results for 524790

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 524790 Location: EA-DZUS Date Received: 01/28/25

Sample ID: EA-DZU	IS EFF 6-	012725		-	b ID: 5 atrix: W		-001	Collecte	ed: 01/27/25 07	:39
524790-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	0.44	J	ug/L	1.0	0.095	1	361505	01/28/25	01/28/25	DXC
Sample ID:			Lat	DID: {	524790-0	02		Collected:	01/27/25 07:39)
EA-DZUS EFF 6-01275 (F)		Ма	trix: F	Filtrate					
524790-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAna	alysis									
Cadmium	ND		ug/L	1.0	0.49	1	361508	01/28/25	01/28/25	DXC
Sample ID:			Lab	ID: 52	4790-00	3		Collected:	01/27/25 15:40	
EA-DZUS INFL 6-012725			Matr	ix: W						
EA-0200 INI E 0-012723			iviati		ater					
	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
524790-003 Analyte Method: EPA 6020	Result	Qual				DF	Batch	Prepared	Analyzed	Chemist
524790-003 Analyte Method: EPA 6020	Result 520	Qual				DF	Batch 361505	Prepared 01/28/25	Analyzed 01/28/25	Chemist DXC
524790-003 Analyte Method: EPA 6020 Prep Method: EPA 3015A		Qual	Units ug/L	RL	MDL	10		01/28/25		DXC
524790-003 Analyte Method: EPA 6020 Prep Method: EPA 3015A Cadmium	520	Qual	Units ug/L	RL 10	MDL	10		01/28/25	01/28/25	DXC
524790-003 Analyte Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-DZUS INFL 6-012725	520	Qual	Units ug/L	RL 10	MDL 1.1 524790	10		01/28/25	01/28/25	DXC
524790-003 Analyte Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID:	520 (F) Result		Units ug/L La M	RL 10 ab ID: latrix:	MDL 1.1 524790 Filtrate	10 -004	361505	01/28/25 Collected:	01/28/25 01/27/25 15:4	DXC

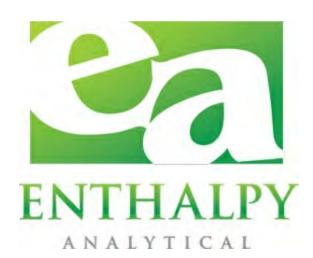
J Estimated value



Turner	Matrix Calles		Lak ID.	001000004			Databa	0045	-05	1
Matrix (Source ID):	Matrix Spike Water (524803-0)	01)		QC1223964 EPA 6020		Prep M	Batch: ethod:			
	114101 (02 1000 0		motriour				omour			
		Source	Ð							
	Desuit	Sample		Unite	Dee		0	1 :		
QC1223964 Analyte	Result 101.0	Resul NE			Rec	overy 101%	Qual		nits 125	D
	101.0		J 100.0	ug/L		101 /6		75-	125	
Type:	Matrix Spike Dup	licate	Lab II	D: QC122396	5		Batch:	361	505	
Matrix (Source ID):	• •			d: EPA 6020		Prep M			A 3015A	
	•					•				
	Sour									
C100065 Apolyto	Samı Basult Bas		sikad Unita	Bacavary	0.0	l limi	ito	RPD	RPD	
C1223965 Analyte	Result Res	•	biked Units	Recovery		I Limi 75-1		2	21	DI
Cadmium	99.31		100.0 ug/L	99%)	/5-1	25	2	21	
Type: Blank	Lab II	0. 0013	23966			Batch	: 3615	05		
Matrix: Water		d: EPA 6			Pron	Method			۸	
	Wethow		,020		Пер	Method		50157	•	
C1223966 Analyte	Resu	ilt Qua	l Units	RL	MDL	Prepa	ared		Analyzed	ł
Cadmium	Ν	D	ug/L	1.0	0.11	01/28			01/28/25	
Type: Lab Control	Sample	La	ab ID: QC122	23967		Ba	atch: 3	61505	5	
Matrix: Water		Me	thod: EPA 6	020	F	Prep Metl	hod: E	PA 30	015A	
QC1223967 Analyte		esult	Spiked	Units	F	Recovery	Qua	l	Limit	-
Cadmium		100.4	100.0	ug/L		100%			80-12	0
Turner	Carriel Dilution		Lah ID.	QC1224008			Batch:	0015	-05	
	Serial Dilution	02)		EPA 6020						
Matrix (Source ID):	water (524790-0	U3)	methoa:	EPA 0020			ethoa:		3015A	
						гіер ім		LFA		
			Source	`		гер м		LFA		
			Source Sample					RP	D	
C1224008 Analyte		Result	Sample Result	e t Units	Qua		RPD			DI
		Result 553.7	Sample	e t Units	Qua			RP		
Cadmium		553.7	Sample Result 517.9	e t Units 9 ug/L		al		RP		
Cadmium Type: Blank	Lab ID: G	553.7 2C122397	Sample Result 517.9	t Units) ug/L Ba	atch:	al 361508	RPD	RP Lir		
Cadmium		553.7 2C122397	Sample Result 517.9	e t Units 9 ug/L	atch:	al 361508	RPD	RP Lir		
Cadmium Type: Blank Matrix: Filtrate	Lab ID: G Method: E	553.7 C122397 PA 6020	Sample Result 517.9	e t Units) ug/L Ba Prep Met	atch:	al 361508 200.8 Dir	RPD ectAna	RP Lir Iysis	n	50
Cadmium Type: Blank Matrix: Filtrate QC1223974 Analyte	Lab ID: G Method: E Resu	553.7 C122397 PA 6020	Sample Result 517.9 74	e t Units) ug/L Ba Prep Met RL	atch: hod:	al 361508 200.8 Dir Prepa	RPD ectAna	RP Lir	n	50
Cadmium Type: Blank Matrix: Filtrate	Lab ID: G Method: E	553.7 C122397 PA 6020	Sample Result 517.9	e t Units) ug/L Ba Prep Met	atch:	al 361508 200.8 Dir	RPD ectAna	RP Lir	n	50
Type: Blank Matrix: Filtrate QC1223974 Analyte Cadmium Cadmium	Lab ID: G Method: E Resu N	553.7 QC122397 PA 6020 Ilt Qua D	Sample Result 517.9 74 1 Units ug/L	e t Units) ug/L Ba Prep Met RL	atch: 5 hod: 5 MDL 0.49	361508 200.8 Dir Prepa 01/28	RPD ectAna ared	RP Lir	n	50
Cadmium Type: Blank Matrix: Filtrate	Lab ID: G Method: E Resu N Sample	553.7 2C122397 2PA 6020 Ilt Qua D Lab ID:	Sample Result 517.9 74	e Units b ug/L Back Prep Met RL 1.0	atch: hod: MDL 0.49 Bat	al 361508 200.8 Dir Prepa	RPD ectAna ared 3/25	RP Lir	n Analyzec 01/28/25	50
Type: Blank Matrix: Filtrate QC1223974 Analyte Cadmium Type: Lab Control S	Lab ID: G Method: E Resu N Sample	553.7 2C122397 2PA 6020 Ilt Qua D Lab ID:	Sample Result 517.9 74 10 Units ug/L QC1223975	e Units b ug/L Back Prep Met RL 1.0	atch: hod: MDL 0.49 Bat	al 361508 200.8 Dir Prepa 01/28 ch: 3615	RPD ectAna ared 3/25	RP Lir	n Analyzec 01/28/25	50
Matrix: Filtrate QC1223974 Analyte Cadmium Type: Lab Control S	Lab ID: G Method: E Resu N Sample	553.7 2C122397 2PA 6020 Ilt Qua D Lab ID:	Sample Result 517.9 74 10 Units ug/L QC1223975	e Units b ug/L Back Prep Met RL 1.0	atch: hod: MDL 0.49 Bate Metho	al 361508 200.8 Dir Prepa 01/28 ch: 3615	RPD ectAna ared 3/25	RP Lir lysis	n Analyzec 01/28/25	s



Type: Lab Control Matrix: Filtrate	Sample Duplicate		: QC1223 : EPA 602		Batch: Prep Method:	361508 200.8 Dir	ectAnalys	is
QC1223976 Analyte	Result	Spiked L	nits	Recove	ry Qual	Limits	RPD	RPD Lim
Cadmium	105.2	100.0 ı	ıg/L	105	%	80-120	8	20
	Serial Dilution Filtrate (524790-004)	Lab II Method): QC122 1: EPA 60		Batch: Prep Method:	361508 200.8 Dir	rectAnalys	sis
			Source Sample				RPD	
QC1224005 Analyte	Res i 558		Result 523.7	Units ug/L	Qual	RPD	Lim	D



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

enthalpy.com

Lab Job Number	:	525318
Report Level	:	II
Report Date	:	02/11/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	525318
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	02/04/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 7-020325	525318-001	02/03/25 07:43	Water
EA-DZUS EFF 7-020325 (F)	525318-002	02/03/25 07:43	Water
EA-DZUS INFL 7-020325	525318-003	02/03/25 15:50	Water
EA-DZUS INFL 7-020325 (F)	525318-004	02/03/25 15:50	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier

Lab Job Number: 525318 Location: EA-DZUS Date Received: 02/04/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 02/04/25. The samples were received cold and intact.

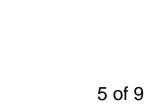
Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Cuange, CA 3268 CL D10 Analytical Request Friget No. Carl LOSIN # Analytical Request Project No. Sampler: Cindy Schreier Project No. Sampler: Cindy Schreier Project No. Sampler: Cindy Schreier Report To: Cindy Schreier Report To: Cindy Schreier Project No. Sampler: Cindy Schreier Report To: Cindy Schreier Report To: Cindy Schreier Project Name: EAD Format: Report To: Cindy Schreier Report To: Cindy Schreier Project Name: EAD Format: Report To: Cindy Schreier Report To: Cindy Schreier Project Name: EAD Schreier Report To: Cindy Schreier Report To: Cindy Schreier Project Name: EAD Schreier Report To: Cindy Schreier Report To: Cindy Schreier No. Sample ID. Date Time all Reports Report To: Cindy Schreier No. Sample ID. Date Time all Reports Report To: Cindy Schreier No. EAD 2US Eff 7-020325 7:43 X X X Record To: Cindy Schreier Date Time all Reports X X X No. EAD 2US Eff 7-020325 02/0325 <th>Enth 931 W</th> <th>Enthalpy Analytical LLC 931 West Barkley Ave</th> <th></th> <th>CHAIN OF CUSTODY</th> <th>A</th> <th></th> <th>E (</th> <th>บ</th> <th>S</th> <th>Ē.</th> <th>ö</th> <th><u>≻</u> [</th> <th></th> <th></th> <th>Chail</th> <th>l of C</th> <th>Page Chain of Custody #</th> <th>Pagestody # :</th> <th>-</th> <th></th> <th>-</th> <th></th> <th></th> <th>1</th>	Enth 931 W	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF CUSTODY	A		E (บ	S	Ē.	ö	<u>≻</u> [Chail	l of C	Page Chain of Custody #	Pagestody # :	-		-			1
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Time: RPLLevel: II III IV Company: PRIMA Environmental.Inc. Time: Trucki Telephone: 916-339-7300 Telephone: 916-339-7300 Email: Telephone: 916-339-7300 Telephone: 916-339-7300 Sample ID. Time: Trucki Chemical Chemical Sample ID. Date Time: Chemical Chemical Date Time: Preservative Preservative Preservative D2US Eff 7-020325 17-43 X 1 X	Projec			Repor	t To:	Cindy	Schr	eier			i i													
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Email: data@primaenvironmental.com Chemical Sampling Matrix Chemical Sampling Matrix Chemical Date Time Preservative 02/03/25 7:43 X 1 1 X Netale Mikalinty 02/03/25 7:43 X 1 1 X Netale (Cr, Fe, Mn) 02/03/25 7:43 X 1 X Netale (Cr, Fe, Mn) 02/03/25 15:50 X 1 1 X X Netale (Cr, Fe, Mn) 02/03/25 15:50 X X 1 X X X 02/03/25 15:50 X X 1 X X X 02/03/25 15:50 X X 1 X X X 02/03/25 15:50 X X 1 X X X <t< td=""><td>Turnar</td><td>D RUSH</td><td>andard</td><td>Telep</td><td>none</td><td>916-9</td><td>39-73</td><td>00</td><td></td><td></td><td></td><td></td><td></td><td>(əte)</td><td>-</td><td>(</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></t<>	Turnar	D RUSH	andard	Telep	none	916-9	39-73	00						(əte)	-	(_		
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DATE/TIME			□ Intact □ Co □ On Ice □ Arr	ld bient	ma	- unit	Slie	ling	B	LIND		312	ш	t	24	(AZ	d X	2	2	μ μ	id A	12 %	Lo: 0	<u>-</u> ш
	Samp	les labeld (F) are field filtered					-				D	TE/T	ME									DA	E/TIM	ш
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document fedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and feest to any claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

SAMPLE RECEIPT CHECKLIST		100	
Section 1: General Info Date Received: 214/25 WO# 525318 Client: PRIMA Environment	stal	INI	HALPY
Section 2: Shipping / Custody Are custody se	eals presen	t? 🗆 Ye	S NI
Custody seals intact on arrival? N/A I Yes I No On cooler / box On samples Shipping Info: Falts			``
Section 3a: Condition / Packaging Qutside 0.0 - 6.0°C (0.0 - 10.0°C for r	nicrobiolog	y) (PM	notified
Date Opened 214124 By (initials) NGM Type of ice used : Wet D Blue/Ge	I 🗆 Non	e	
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatur	res)		
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)		in	i.
If no cooler: Observed/Adjusted Temp (°C): / Thermometer/IR Gun: ジ Cooler Temp (°C) #1: <u>5,2_/5.3</u> #2:/#3:/#4:/#5:/#6:		CF: <u>+0</u>	7
Section 3b: Microbiology Samples			skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples Device Section 3c: Air Samples	mples sub	mitted (skip 3c)
□1.4L Canisters □6L Canisters □Tedlar Bags □MCE Cassettes □Sorbent Tubes □0	Other		
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	1		
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			1
5) Were all of, and only, the correct samples received?	/		
6) Are sample labels present, legible, and in agreement with the CoC?	/		
7) Does the container count match the CoC?	/		
8) Was sufficient sample volume / mass received for the analyses requested?	/		
9) Were samples received in proper containers for the analyses requested?	/		
10) Were samples received with > 1/2 holding time remaining?	1		
11) Are samples properly preserved as indicated by CoC / labels?	/		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			/
13) Are VOA vials free from headspace/bubbles > 6mm?			~
Section 5: Explanations / Comments	D PM n	otified	-
			Ξ
			_
			_
Date Logged 2/4/25 By (print) ABD (sign) Addr			
Date Logged2/4/2.5By (print)ABD(sign)AdV5Date Labeled2/4/2.5By (print)EA-OR(sign)			_



Analysis Results for 525318

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 525318 Location: EA-DZUS Date Received: 02/04/25

Sample ID: EA-DZU	JS EFF 7-	020325			ib ID: 5 atrix: V		3-001	Collecte	d: 02/03/25 0	7:43
525318-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	1.0	J	ug/L	1.0	0.11	1	362179	02/05/25	02/07/25	KAM
Sample ID: EA-DZUS EFF 7-020325	(F)		-	-	525318- Filtrate	002		Collected:	02/03/25 07:4	43
525318-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAna	alysis									
Cadmium	0.26	J	ug/L	1.0	0.044	1	362323	02/06/25	02/07/25	DXC
Sample ID: EA-DZUS INFL 7-020325				ID: 52 ix: W	25318-00 ater	3		Collected:	02/03/25 15:5	0
525318-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020	Result 500	Qual	Units ug/L	RL 10	MDL	DF 10	Batch 362179	Prepared 02/05/25	Analyzed 02/07/25	Chemist KAM
Method: EPA 6020 Prep Method: EPA 3015A	500	Qual	ug/L	10 ab ID:	1.1	10 - 004		02/05/25	-	KAM
Method: EPA 6020 Prep Method: EPA 3015A Cadmium Sample ID: EA-DZUS INFL 7-020325 525318-004 Analyte	500	Qual	ug/L	10 ab ID:	1.1 525318	10 - 004		02/05/25	02/07/25	KAM
Sample ID:	500 (F) Result		ug/L	10 ab ID: latrix:	1.1 525318 Filtrate	10 -004	362179	02/05/25 Collected:	02/07/25 02/03/25 15:	KAM

J Estimated value

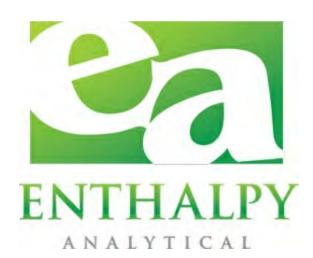
1 of 1



Type: Blank	Lab ID:	QC122628	81			Batch:	3621	79	
Matrix: Water	Method:	EPA 6020	1		Prep	Method:	EPA	3015A	
QC1226281 Analyte	Result	Qual	Units	RL	MDL	Prepare	ed	Analyz	ed
Cadmium	ND		ug/L	1.0	0.11	02/05/2		02/06/2	25
Turney Lak Osintus	Oceando	1 ab 15	0.0100	<u> </u>		Det	<u></u>	co170	
Type: Lab Control Matrix: Water	Sample): QC122 I: EPA 60		F	Bate Prep Metho		62179 PA 3015A	
QC1226282 Analyte	Res		Spiked	Units	F	Recovery	Qua		
Cadmium	98.	13	100.0	ug/L		98%		80-1	20
Type:	Matrix Spike		Lab ID:	QC1226283		В	atch:	362179	
Matrix (Source ID):	Water (525269-001)		Method:	EPA 6020		Prep Met	thod:	EPA 3015A	L
		Courses							
		Source Sample							
QC1226283 Analyte	Result	Result	Spiked	Units	Rec		ual	Limits	DF
Cadmium	92.66	0.6340	100.0	ug/L		92%		75-125	1
Type:	Matrix Spike Duplic	ate	Lab ID	: QC122628	34	E	Batch:	362179	
••	Water (525269-001)		Method	: EPA 6020		Prep Me	thod:	EPA 3015	4
	Source Sample							RPD	
QC1226284 Analyte	Result Result	Spiked		Recover	-			RPD Lim	DF
Cadmium	89.29 0.6340	100.0) ug/L	89%	6	75-125	5	4 21	1
Type	Serial Dilution		l ah ID:	QC1226410		B	atch	362179	
	Water (525318-003))		EPA 6020				EPA 3015A	
			Source Sample					RPD	
QC1226410 Analyte		sult	Result	Units	Qua	al	RPD	Lim	DF
Cadmium	E(
		26.3	504.6	ug/L					50
			504.6		latoh ·	262222			
Type: Blank	Lab ID: QC	1226747	504.6	E	Batch:		ctAna	lysis	
		1226747	504.6	E		362323 200.8 Diree	ctAna	lysis	
Type: Blank Matrix: Filtrate QC1226747 Analyte	Lab ID: QC Method: EPA Result	1226747	Units	E Prep Me RL	thod: 2	200.8 Dire Prepare	ed	Analyzo	50
Type: Blank Matrix: Filtrate	Lab ID: QC Method: EPA	1226747 A 6020		E Prep Me	thod:	200.8 Diree	ed	-	50
Type: Blank Matrix: Filtrate QC1226747 Analyte Cadmium	Lab ID: QC Method: EPA Result ND	1226747 A 6020 Qual	Units ug/L	E Prep Me RL 1.0	thod: 5 MDL 0.044	200.8 Dired Prepare 02/06/2	ed 25	Analyzo	50
Type: Blank Matrix: Filtrate QC1226747 Analyte Cadmium	Lab ID: QC ⁻ Method: EPA Result ND Serial Dilution	1226747 A 6020 Qual Lab	Units	E Prep Me RL 1.0 226750	MDL 0.044	200.8 Dired Prepare 02/06/2 Batch: 36	ed 25 2323	Analyzo	50 ed
Type: Blank Matrix: Filtrate QC1226747 Analyte Cadmium Type: S	Lab ID: QC ⁻ Method: EPA Result ND Serial Dilution	1226747 A 6020 Qual Lab	Units ug/L ID: QC12	E Prep Me RL 1.0 226750	MDL 0.044	200.8 Dired Prepare 02/06/2 Batch: 36	ed 25 2323	- Analyz 02/07/2	50 ed
Type: Blank Matrix: Filtrate QC1226747 Analyte Cadmium Type: S	Lab ID: QC ⁻ Method: EPA Result ND Serial Dilution	1226747 A 6020 Qual Lab	Units ug/L ID: QC12 od: EPA (Source	E Prep Me RL 1.0 226750	MDL 0.044	200.8 Dired Prepare 02/06/2 Batch: 36	ed 25 2323	Analyzo 02/07/2 rectAnalysis	50 ed
Type: Blank Matrix: Filtrate QC1226747 Analyte Cadmium Type: S	Lab ID: QC Method: EPA Result ND Serial Dilution Filtrate (525318-004)	1226747 A 6020 Qual Lab	Units ug/L ID: QC12 od: EPA	E Prep Me RL 1.0 226750	MDL 0.044	200.8 Direc Prepare 02/06/2 Batch: 36 ethod: 20	ed 25 2323	- Analyz 02/07/2	50 ed



	Matrix Spike Filtrate (525479-00 ⁻	Lab ID: 1) Method:		Batch: Prep Method:	362323 200.8 Direct/	Analysis
QC1226896 Analyte	Result	Source Sample Result S	Spiked Units	Recovery	Qual Li	mits DF
Cadmium	95.96	0.1390	100.0 ug/L	96%	75	-125 1
Type: Matrix (Source ID):	Matrix Spike Duplic Filtrate (525479-001			Batch: Prep Method:	362323 200.8 Direct	Analysis
QC1226897 Analyte	Sour Samj Result Res	ole ult Spiked			mits RPD	RPD Lim DF
Cadmium	94.34 0.13	90 100.0	ug/L	94% 75	-125 2	21 1
Type: Lab Contro Matrix: Filtrate	•	Lab ID: QC122 Method: EPA 6		Batch: 36 Prep Method: 20		lysis
QC1226898 Analyte	R	esult Spil	ked Units	Recover	y Qual	Limits
Cadmium		98.75 10	0.0 ug/L	99%	/o	80-120



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

enthalpy.com

Lab Job Number	:	526073
Report Level	:	II
Report Date	:	02/19/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	526073
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	02/12/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 8-021025	526073-001	02/10/25 07:37	Water
EA-DZUS EFF 8-021025 (F)	526073-002	02/10/25 07:37	Water
EA-DZUS INFL 8-021025	526073-003	02/10/25 12:25	Water
EA-DZUS INFL 8-021025 (F)	526073-004	02/10/25 12:25	Water
EA-DZUS EFF 9 021125	526073-005	02/11/25 07:38	Water
EA-DZUS EFF 9 021125 (F)	526073-006	02/11/25 07:38	Water
EA-DZUS INFL 9 021125	526073-007	02/11/25 10:20	Water
EA-DZUS INFL 9 021125 (F)	526073-008	02/11/25 10:20	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 526073 Location: EA-DZUS Date Received: 02/12/25

This data package contains sample and QC results for eight water samples, requested for the above referenced project on 02/12/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

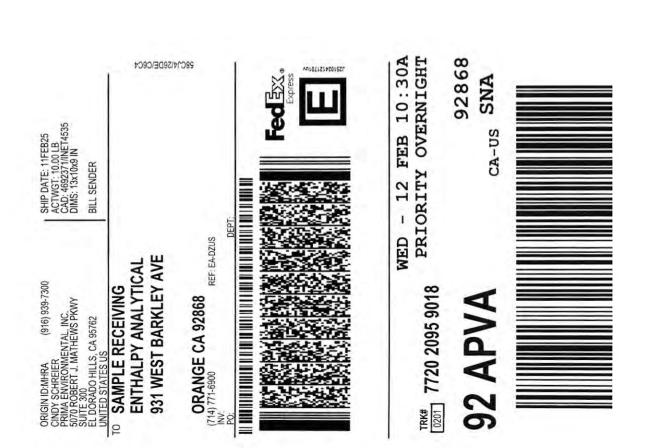
CarLoGIN# <i>SUCOPS</i> Sampler: Circly Schreier Cardy Schreier Cardy Schreier Report To: Circly Schreier Sampling Matrix Report To: Circly Schreier Sampling Sampling Samore recerer Samo	Enth 931 W	Enthalpy Analytical LLC 931 West Barkley Ave		CH	AIA	AIN OF CUSTODY	Щ	5	S	R	0	\mathbf{F}		сh	ain o	Page _ Chain of Custodv #	Page		_of1.		
	Orang	e, CA 92868													A	nalyt	ical R	edue	t		
Ampler: Cindy Schreier aport To: Cindy Schreier approver StateQuimaenvironmental. Inc. alephone: StateQuimaenvironmental. Inc. alephone: StateQuimaenvironmental.com mail: dataQuimaenvironmental.com Matrix Preservative Siz x Siz	(714)	771-6900 Phone		C&TL	OGIN	5 #1	600	F	7					-						-	
aport To: Cindy Schreier ompany : PRIMA Environmental, Inc. ilephone: 916-939-7300 mail: data@primaenvironmental, Inc. ilephone: 916-939-7300 mail: data@primaenvironmental, Inc. ilephone: 916-939-7300 mail: data@primaenvironmental, Inc. ilephone: 916-939-7300 mail: data@primaenvironmental.com poil: 1 x x x 225 x x x 226 x x x 220 x x x 22	Projec	t No:		Samp	ler:	Cindy	Schre	eier											_		
Ompany: PRIMA Environmental, Inc. Biephone: 916-939-7300 mail: data@primaenvironmental.com 337 xx 225 xx 220 xx	Projec			Repor	t To:	Cindy	Schre	eier									-			_	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		EA-DZUS Eff 8-021025	02/10/25	7:37	×		-		×	-		-	-	-	×				-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		EA- DZUS Eff 8-021025 (F)	02/10/25	7:37	×		-		×							×			-		
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RELINQUISHED BY: Z/11/25 IS: 15 Relinquished By: Z/11/25 IS: 15 Runch Standingen PRUA DATE/TIME Fed EX DATE/TIME DATE/TIME		EA-DZUS Infl 9-021125 (F)	02/11/25	10:20	×		2		×	×			×			×					
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DATE/TIME AP 1000 2/1 DATE/TIME	5 day EA-DZU	r TAT for samples S Eff 9 021125, EA-DZUS Eff 9 021125 (F	□ Intact □ Co	ld hbient	Pola	ich	Here	resce	1 06	WA	2/I	r/2		: is	Ě					DA	DATE/TIME
DATE/TIME	EA-DZUS Standa	a infl 9-021125, EA-DZUS infl 9-021125 (F) and TAT for other samples						, ,			DAT	E/TIM	U U	d	N			100		2/14	υ ss date/time
	Sampl	ies labeled "(F)", Field filtered									DAT	E/TIM	<u>ш</u>							DA	DATE/TIME

SAMPLE RECEIPT CHECKLIST	2
Section 1: General Info Date Received: 2/12/25 WO# 526073 Client: Prima Environmental Inc	(NITIALE)
방법 방법 사람이 가지 않는 것이 같아요. 이 것이 같아요. 이 것이 같아요. 이 것이 같아요. 이 것이 있는 것이 같아요. 이 것이 있는 것이 같아요. 이 있는 것이 같아요. 이 있는 것이 같아요. 이 것이 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	istody seals present? 🗆 Yes 🛛 💌 No
Custody seals intact on arrival? ■ N/A □ Yes □ No □ On cooler / box □ On s □ Courier → ■ Walk-In □ Field Sampling ■Shipping Info: Fedex	mples
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.	°C for microbiology) (PM notified)
Date Opened 2/12/25 By (initials) GCK Type of ice used:	Blue/Gel Done
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip tem	eratures)
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)	1044
	iun: <u>IR11</u> CF: <u>+0.1</u>
Cooler Temp (°C) #1: <u>5.1 / 5.2</u> #2:/ #3:/ #4:/ #5:/	#6:/
[양소에 개작] 김 학생은 아파이는 것이 같아요. 그는 것이 가지 않는 것이 많이	ology samples submitted (skip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.	
Adequate headspace for microbiology analysis.	
	No air samples submitted (skip 3c)
□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tube	
Section 4: Containers / Labels / Samples	YES NO N/A
1) Were custody papers present, filled properly, and legible?	X
2) Is the sampler's name present on the CoC?	X
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	X
5) Were all of, and only, the correct samples received?	X
6) Are sample labels present, legible, and in agreement with the CoC?	X
7) Does the container count match the CoC?	x
8) Was sufficient sample volume / mass received for the analyses requested?	X
9) Were samples received in proper containers for the analyses requested?	×
10) Were samples received with > 1/2 holding time remaining?	x
11) Are samples properly preserved as indicated by CoC / labels?	x
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	×
13) Are VOA vials free from headspace/bubbles > 6mm?	X
Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)	
No additional discrepancies	
Date Logged 2/12/25 By (print) Emeryville (sign) (a	

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6 of 11	



After printing this label. COUSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1 Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

within strict time limits, see current FedEx Service Guide.

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Analysis Results for 526073

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 526073 Location: EA-DZUS Date Received: 02/12/25

Sample ID: EA-DZU	S EFF 8-	021025			ab ID: 5 latrix: V		8-001	Collecte	d: 02/10/25 0	7:37
526073-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	1.2		ug/L	1.0	0.26	1	362948	02/13/25	02/15/25	KAM
Sample ID:			La	b ID:	526073	-002		Collected:	02/10/25 07:	37
EA-DZUS EFF 8-021025 (F)		Ма	atrix:	Filtrate					
526073-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: 200.8 DirectAna	lysis									
Cadmium	0.71	J	ug/L	1.0	0.39	1	362939	02/13/25	02/18/25	KAM
Sample ID: EA-DZUS INFL 8-021025				ID: 52 ix: W	26073-00 /ater)3		Collected:	02/10/25 12:2	5
526073-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: EPA 3015A									-	
Cadmium	520		ug/L	10	2.6	10	362948	02/13/25	02/18/25	KAM
Sample ID: EA-DZUS INFL 8-021025	(F)			ab ID: atrix:	526073 Filtrate			Collected:	02/10/25 12:	25
526073-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6020 Prep Method: 200.8 DirectAna	lvsis									
Cadmium	500		ug/L	10	3.9	10	362939	02/13/25	02/13/25	KAM
Sample ID: EA-DZU	SEFF9(021125			ab ID: 5 latrix: V		3-005	Collecte	d: 02/11/25 0	7:38
526073-005 Analyte Method: EPA 6020	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Prep Method: EPA 3015A Cadmium	0.44		ug/L					02/13/25		
		J		1.0	0.26	1	362948	00/10/05	02/15/25	KAM



Analysis Results for 526073

Sample ID: EA-DZUS EFF 9 02112	25 (F)				ID: 52 rix: Fi			Collect	ed: 02/11/25 07:3	8
526073-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	1.5		mg/L	0.10	0.05	1	362867	02/12/25 17:00	02/13/25 02:53	JAA
Sulfate	16		mg/L	1.0	0.18	1	362867	02/12/25 17:00	02/13/25 02:53	JAA
Method: EPA 6020 Prep Method: 200.8 Direct	Analysis									
Cadmium	ND		ug/L	1.0	0.39	1	362939	02/13/25	02/18/25	KAM
Sample ID: EA-DZUS INFL 9 0211	25			Lab ID Matrix	: 5260 : Wate)73-0 er	07	Collecte	ed: 02/11/25 10:20	
526073-007 Analyte	Res	ult Q	ual U	nits	RL	MDL	DF	Batch Prepare	d Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmiur	n 5	510	u	ıg/L	10	2.6	10	362948 02/13/2	5 02/18/25	KAM
Sample ID:				Lab	D: 5	26073	3-008	Collect	ed: 02/11/25 10:2	0
EA-DZUS INFL 9 0211	25 (F)			Mat	trix: F	iltrate)			•
526073-008 Analyte	25 (F) Result	Qual	Units	Mat RL	t <mark>rix: F</mark> MDL	<mark>iltrate</mark> DF	e Batch	Prepared	Analyzed	Chemist
	. ,	Qual	Units					Prepared	Analyzed	-
526073-008 Analyte Method: EPA 300.0	. ,	Qual	Units mg/L					•	Analyzed 02/13/25 08:14	-
526073-008 Analyte Method: EPA 300.0 Prep Method: METHOD	Result	Qual		RL	MDL	DF	Batch	02/12/25 17:00		Chemist
526073-008 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	Result 4.2 14	Qual	mg/L	RL 0.10	MDL	DF	Batch 362867	02/12/25 17:00	02/13/25 08:14	Chemist

J Estimated value

ND Not Detected



Type: Blank Matrix: Water		Lab ID: lethod:	QC122869 EPA 300.0			Ba Prep Meth	itch: 3628		
	IV		EFA 300.0			Fiep Meti			
QC1228692 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	02/12/25 17:00	0	2/12/25 19:1	18
Sulfate	ND		mg/L	1.0	0.18	02/12/25 17:00	0	2/12/25 19:1	18
Type: Lab Control	Sample		Lab ID	: QC12	28693		Batch:	362867	
Matrix: Water			Method	EPA 3	300.0	Prep N	lethod: I	METHOD	
QC1228693 Analyte		Resu	lt Sj	oiked	Units	Recovery	Qual	Limi	its
Nitrogen, Nitrate		4.34	.3 4	4.518	mg/L	96%		90-1	10
Sulfate		24.3	5 5	25.00	mg/L	97%		90-1	10
Туре	Matrix Spik	2		Lab ID:	QC122870	3	Batch:	362867	
Matrix (Source ID)	•				EPA 300.0	-		METHOD)
QC1228708 Analyte Nitrogen, Nitrate Sulfate Type:	Resul 9.533 73.96 Matrix Spike	t 3 6	Sample Result 0.7953 25.78 ate	Spiked 9.036 50.00 Lab II	Units mg/L mg/L D: QC12287	Recovery 97% 96% '09	Qual Batch	Limits 80-120 80-120 : 362867	
Matrix (Source ID):	Water (52592	27-002)		Metho	d: EPA 300	0 Pre	p Method		D
QC1228709 Analyte Nitrogen, Nitrate	Result 9.474	Source Sample Result	Spiked 9.036	Units mg/L	Recover 96%	6 80-1	20	1 20	DF
Sulfate	73.67	25.78	50.00	mg/L	96%	6 80-1	20	0 20	1
Type: Blank Matrix: Water			QC1228952 EPA 6020	2		Batch Prep Method	1: 362948 1: EPA 30		
QC1228952 Analyte		Result	Qual	Units	RL	MDL Prepa	ared	Analyze	ed
Cadmium		ND		ug/L	1.0	0.11 02/13		02/13/2	
Type: Lab Control Matrix: Water	Sample		Lab ID: Method:	QC122 EPA 60			atch: 362 hod: EP		
QC1228953 Analyte		Resu	lt Si	oiked	Units	Recovery	Qual	Limi	its
					•••••				



Туре	: Matrix Spike		La	b ID:	QC1228954		Batch	: 362948	
Matrix (Source ID)	: Water (526167	-005)	Met	thod:	EPA 6020		Prep Method	: EPA 301	5 A
QC1228954 Analyte	Result	Sourc Sampl Resu	e	Spiked	Units	Reco	verv Qual	Limits	DF
Cadmium	101.3	N		100.0	ug/L		01%	75-125	10
ouumum	101.0			100.0	ug/L		0170	70 120	
Type:	Matrix Spike D	uplicate		Lab ID	: QC122895	55	Batch	n: 362948	
Matrix (Source ID):	Water (526167-	005)	M	lethod	: EPA 6020		Prep Method	l: EPA 30	15A
	Sa	ource mple			_			RP	
QC1228955 Analyte				Units	Recover	-	Limits	RPD Lir	
Cadmium	97.82	ND	100.0	ug/L	98%	6	75-125	4 21	1 10
True					001000040		Datah	- 000040	
••	: Serial Dilution				QC1229343			: 362948	
Matrix (Source ID)	: water (526073	-003)	Met	inoa:	EPA 6020		Prep Method	: EPA 30	БА
QC1229343 Analyte		Result	S	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Cadmium		492.0		519.4	ug/L				50
Type: Blank	Lab ID:	QC12289	<u></u>			Batch: 36	2020		
Matrix: Filtrate		EPA 6020					02939 00.8 DirectAn	alvsis	
	mothou								
QC1228922 Analyte	Re	sult Qua	al L	Jnits	RL	MDL	Prepared	Ana	lyzed
Cadmium		ND		ug/L	1.0	0.39	02/13/25	02/1	3/25
Type: Lab Control Matrix: Filtrate	Sample	Lab ID: Method:			Пио		n: 362939 I: 200.8 Dire	at A nalvaia	
		methoa:	EPA O	020	Pre	p method	1: 200.6 Dire	clanalysis	
QC1228923 Analyte		Result	Spil	ked	Units	Re	covery Qu	ial L	imits
Cadmium		93.32	-	0.0	ug/L		93%	-	0-120
Туре:	Matrix Spike		Lab ID:	QC12	228924	Ba	atch: 362939		
Matrix (Source ID):	Filtrate (526167-0)03) N	lethod:	EPA	6020	Prep Met	hod: 200.8 🛙	DirectAnaly	/sis
		Sourc Sampl	е						
QC1228924 Analyte	Result	Resu		Spiked	Units	Reco	•	Limits	DF
Cadmium	106.2	N	ט	100.0	ug/L	1	06%	75-125	10



Туре:	Matrix Spike	Duplicate	Lab	ID: QC1	228925		Batch	: 36293	39		
Matrix (Source ID):	Filtrate (52616	67-003)	Metho	d: EPA	6020	Prep	Method	200.8	Direct/	Analysis	;
QC1228925 Analyte Cadmium	Result 106.6	Source Sample Result ND	Spiked 100.0	Units ug/L	Recov 10	ery Qu 7%	-	mits 5-125	RPD	RPD Lim 21	DF 10
Type:	•	17.001)	Lab ID			Drev		36293	-		
Matrix (Source ID):	Filtrate (5261	17-001)	Method	I: EPA 6	020	Prepi	lethod:	200.8	DirectA	naiysis	
QC1228926 Analyte	Res	Sa	urce mple esult	Spiked	Units	B	ecovery	Qual	l ir	nits	DF
Cadmium	103		ND	100.0	ug/L		104%	Quai		125	1
					0						
Туре:	Matrix Spike	Duplicate	Lab	ID: QC1	228927		Batch	: 36293	39		
Matrix (Source ID):	Filtrate (52611	17-001)	Metho	d: EPA	6020	Prep	Method	200.8	Direct/	Analysis	;
QC1228927 Analyte	Result	Source Sample Result	Spiked	Units	Recov	ery Qu	ıal Li	mits	RPD	RPD Lim	DF
Cadmium	100.7	ND	100.0	ug/L	10	1%	75	5-125	3	21	1
••	Serial Dilutio		Lab ID): QC12	30615			36293			
Matrix (Source ID):	Filtrate (5260	73-004)	Method	I: EPA (6020	Prep N	lethod:	200.8	DirectA	nalysis	
QC1230615 Analyte		Resul	t	Source Sample Result	Units	Qu	ual	RPD	RP) Lir	_	DF

496.1

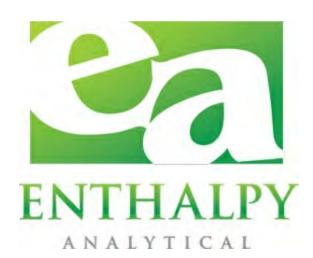
ug/L

508.9

ND Not Detected

Cadmium

50



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

enthalpy.com

Lab Job Number	:	527048
Report Level	:	II
Report Date	:	02/27/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	527048
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	02/20/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 10	527048-001	02/19/25 07:54	Water
EA-DZUS EFF 10 (F)	527048-002	02/19/25 07:54	Water
EA-DZUS INFL 10	527048-003	02/19/25 15:15	Water
EA-DZUS INFL 10 (F)	527048-004	02/19/25 15:15	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 527048 Location: EA-DZUS Date Received: 02/20/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 02/20/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

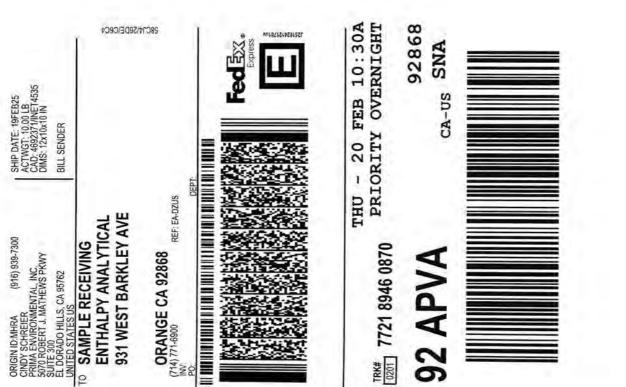
Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Enthalpy Analytical LLC 931 West Barkley Ave	ų	CH	AII	HAIN OF	Щ		5	F	ō	<u>б</u> Ц			Ch	Page _ Chain of Custody #	Page_	-	of 1	-			
Urange, CA 92808 (714) 771-6900 Phone		C&T	-0GII	C&T LOGIN # 527048	t2	50	M				-			Analy	tical	Analytical Request	est	-	-		0.1
Project No:		Sampler:	ler.	Cindy Schreier	Schr	eier															
Project Name: EA-DZUS		Report To:	rt To:	Cindy Schreier	Schr	eier			1							_					
EDD Format: Rpt	Rpt Level: II II III I	III IV Company :	any :	PRIMA Environmental, Inc.	A En	/iron	nent	al, li	jc.												
Turnaround Time: DRUSH	_ XStandard	Telep	hone	Telephone: 916-939-7300	39-73	00				_		(əte)				_			_		
		Email	data	Email: data@primaenvironmental.com	aenv	ronn	lenta	al.co	E		_	Vitre	(u								
4	Sampling	bu	Ma	Matrix		Pre	Chemical Preservative	ative	0	(09		ulfate, I	M ,97 ,								
No. Sample ID.	Date	Time	Vater Soil		# of Containers	H ⁵ 2O [⊄] HCI	[©] ONH	HOBN	anoN	VOCs (82	Alkalinty	a) enoine	D) etals (C	muimbeO							
EA-DZUS Eff 10	02/19/25	7:54	×		-	-	×		_		-			×				+	-		
EA- DZUS Eff 10 (F)) 02/19/25	7:54	×		2		×		×			×		×				-	-		
EA-DZUS Infl 10	02/19/25	15:15	×		-		×	1	Г					×				\vdash	-		
EA-DZUS Infl 10 (F)	02/19/25	15:15	×		2		×		×			×		×					-		
									П												
																			-		
						++			TT												
						+													-		
Notes:	SAMPLE RECEIPT	CEIPT	REL	RELINQUISHED	SHEL	BY						RE	CEN	RECEIVED BY:							
Samples labeled "(F)" have been field	$\Box \text{ Intact } \blacksquare \text{ Cold } \overset{S-S}{\mathcal{I}^{h_1}}$ eld $\Box \text{ On Ice } \Box \text{ Ambient}$	Id S-S Id Ini Ibient	J'	Sch	me		de la	L1+	PRIMA 2/19/25 DATE/TIME	2/19/25 DATE/TIME	1/2S	5	aot1-	Fal	1×	20	2/10	10	1 DAT	l ₂ ; ς DATE/TIME	1 11
									٥	DATE/TIME	LIME								DAT	DATE/TIME	111
									٥	DATE/TIME	LIME								DAT	DATE/TIME	

Date Received: 2/20/25 WO# 527048 Client: Prima Environmental, Inc. Image: Client: Prima Environmental, Inc. Section 2: Shipping / Custody Are custody seals present? Image: Client: Prima Environmental, Inc. Image: Client: Prima Environmental, Inc. Custody seals intact on arrival? Image: NA Image: Veroit State S	SAMPLE RECEIPT CHECKLIST			2
Section 2: Shipping / Custody Are custody seals present? \rightarrow Yes Custody seals intact on arrival? NA Yes No On cooler / box On samples Courier Walk-in Field Sampling Shipping Info:	Section 1: General Info		1.14	
Custody seals intact on arrival? N/A Yes On On cooler / box On samples			L'al	IL NUT 1
Courier Walk-In Field Sampling Shipping Info: Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM m Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Damples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: IR13 CF: 0 Cooler Temp (*C) 1#1:5.5 /5.5 #2: / #3: / #4: //////#5: / Cooler Temp (*C) 1#1:5.5 /5.5 #2: / #3: / #4: /////#5: / / Section 3b: Microbiology Samples Is No microbiology samples submitted (Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3:: Air Samples Other Section 4: Containers / Labels / Samples No Section 4: Containers / Labels / Samples Tedlar Bags MCE Cassettes Sorbent Tubes Other 2) Is the sampler's name present, filled properly, and legible? x 2 NO 1 Were custody papers present, filled properly, and legible? x	승규가 의가 가장에 해야 하면 것이다. 사람은 비행에서 도둑 전에 들어나는 것이 아파지가 가지 않는 것이다. 이렇게 가지 않는 것이 것이라 가지 않는 것이다.		t? 🗆 Ye	s 🔳 No
Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM m Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Date Opened 2/20/25 By (initials) GCK ////////////////////////////////////				
Date Opened 2/20/25 By (initials) GCK Type of ice used: Wet Blue/Gel None Gamples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) None Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) Thermometer/IR Gun; IR13 CF; 0 Cooler Temp (*C) #1: 5.5 / 5.5 #2: / #3: / #4: / #5: / #6: /		minahialaa		-ALE - AL
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C):/		5000000		otified)
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C):/		_	ne	
If no cooler: Observed/Adjusted Temp (*C):/ Thermometer/IR Gun: <u>IR13</u> CF: 0 Cooler Temp (*C) #1: <u>5.5</u> / <u>5.5</u> #2: #3: #4: #5:/_ #6: Section 3b: Microbiology Samples Ro microbiology samples submitted (Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples Ro air samples submitted (1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES NO 1) Were custody papers present, filled properly, and legible? x 2) Is the sampler's name present on the CoC? x 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) x 5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples preceived in proper containers for the analyses requested?	나는 부산에 잘 가지 않는 것 같아요. 이 것 같아요. 사람이 가지 않는 것 같아요.	esj		
Cooler Temp (°C) #1: 5.5 / 5.5 #2: / #3: / #4: / #5: / #6: / #6: / Section 3b: Microbiology Samples Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples Section 3c: Air Samples I.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other		13	CF: 0	
Section 3b: Microbiology Samples Image No microbiology samples submitted (section 3c: Air Samples for microbiology analysis. Section 3c: Air Samples Image No air samples submitted (section 3c: Air Samples section 3c: Air Samples Image No air samples submitted (section 3c: Air Samples section 3c: Air Samples (section 4c: Containers / Labels / Samples (section 4c: Container 4c: Contai	이상 가장에 가장 것이 가지 않았는 것을 가지 않았다. 이상 같은 것에 가장 이 가지 않는 것이다. 이 것에 가지 않는 것이 것이 하는 것이 하는 것이 하는 것이 가지 않았다. 이 것이 하는 것이 않았다. 이 것이 가지 않았다. 이 것이 가지 않았다. 이 것이 가지 않았다. 이 것이 가지 않았다. 이 것이 않았다. 이 있었다. 이 것이 않았다. 이 있었다. 이 것이 않았다. 이 있었다. 이 것이 있었다. 이 것이 있었다. 이 있			
Adequate headspace for microbiology analysis. Section 3c: Air Samples INo air samples submitted (1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other		amples sub	mitted (s	kip 3b)
Section 3c: Air Samples Image: No air samples submitted (11.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	□ Adequate headspace for microbiology analysis.			
Section 4: Containers / Labels / Samples YES NO 1) Were custody papers present, filled properly, and legible? x 2) Is the sampler's name present on the CoC? x 2) Is the sampler's name present on the CoC? x 3) 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) 5) 5) Were all of, and only, the correct samples received? x 6) 6) Are sample labels present, legible, and in agreement with the CoC? x 7) 7) Does the container count match the CoC? x 8) 8) Was sufficient sample volume / mass received for the analyses requested? x 9) 9) Were samples received in proper containers for the analyses requested? x 10) 10) Were samples received with > 1/2 holding time remaining? x 11) 11) Are samples properly preserved as indicated by CoC / labels? x 12) 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments	Section 3c: Air Samples 📕 No air	samples sub	mitted (skip 3c)
1) Were custody papers present, filled properly, and legible? x 2) Is the sampler's name present on the CoC? x 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) 5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples preceived with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments Section 5: Explanations / Comments	□1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □	Other		
2) Is the sampler's name present on the CoC? x 3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) x 5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples properly preserved as indicated by CoC / labels? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments 50 mments	Section 4: Containers / Labels / Samples	YES	NO	N/A
3) Were containers received in good condition (unbroken / unopened / uncompromised)? x 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) x 5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments	1) Were custody papers present, filled properly, and legible?	x		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments Section 5: Explanations / Comments	2) Is the sampler's name present on the CoC?	x		
5) Were all of, and only, the correct samples received? x 6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments X	3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x		
6) Are sample labels present, legible, and in agreement with the CoC? x 7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments K	4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			x
7) Does the container count match the CoC? x 8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments X	5) Were all of, and only, the correct samples received?	X		
8) Was sufficient sample volume / mass received for the analyses requested? x 9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments X	6) Are sample labels present, legible, and in agreement with the CoC?	x		
9) Were samples received in proper containers for the analyses requested? x 10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 1 13) Are VOA vials free from headspace/bubbles > 6mm? 1 Section 5: Explanations / Comments 1	7) Does the container count match the CoC?	x		1
10) Were samples received with > 1/2 holding time remaining? x 11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? x 13) Are VOA vials free from headspace/bubbles > 6mm? x Section 5: Explanations / Comments x	8) Was sufficient sample volume / mass received for the analyses requested?	x		
11) Are samples properly preserved as indicated by CoC / labels? x 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	9) Were samples received in proper containers for the analyses requested?	x		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments 13) Are VOA vials free from headspace/bubbles > 6mm?	10) Were samples received with > 1/2 holding time remaining?	x		1
13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments	11) Are samples properly preserved as indicated by CoC / labels?	x		
Section 5: Explanations / Comments	12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			x
	13) Are VOA vials free from headspace/bubbles > 6mm?	1		x
(If no comments are made then no discremancies noted)	Section 5: Explanations / Comments			
	(If no comments are made, then no discrepancies noted.)			_
				-
				_
			-	-
No additional discrepancies				
No additional discrepancies Date Logged 2/20/25 By (print) G. Kim (sign)				





3. Flace label in shipping point and stifts it to your shipment of the punced page short and stifts it to your shipment considence CODY - PLEASE PLACE IN FRONT OF POUCH After punch and stifts it to your shipment and stifts it to your shipment of the punch and stifts it to your shipm

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on tedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Written claims must be filed declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. declared value. Recovery cannot exceed actual documented loss. Maximum for items of the greater of \$1,000 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. downline for the authorized be actual documente and other items listed in our \$ervice Guide. Written claims mus



Analysis Results for 527048

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 527048 Location: EA-DZUS Date Received: 02/20/25

Sample ID: E	A-DZUS EFF	10			ID: 527 ix: Wat		001	Collected	l: 02/19/25 07:5	4
527048-001 Analyte	Result	Qual	Units	RL	. MDI	_ D	F Batc	h Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015	Ā									
Cadmi	um 0.50	J	ug/L	1.0	0.09	5	1 36376	69 02/21/25	02/21/25	KAM
Sample ID: EA	A-DZUS EFF 1	0 (F)		La	ab ID: 5	2704	8-002	Collecte	d: 02/19/25 07:	54
527048-002 Analyte	Result Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	0.78	mg/L	0.10	0.05	Water	1	363698	02/20/25 18:00	02/20/25 18:42	KUM
Sulfate	15	mg/L	1.0	0.18	Water	1	363698	02/20/25 18:00	02/20/25 18:42	KUM
Method: EPA 6020										
Prep Method: 200.8 Dire	ectAnalysis									
	ectAnalysis ND	ug/L	1.0	0.39	Filtrate	1	363710	02/20/25	02/21/25	DXC
Prep Method: 200.8 Dire	ND	U	1.0	Lab	Filtrate ID: 527 rix: Wat	048-0			02/21/25	
Prep Method: 200.8 Dire Cadmium	ND	U	1.0 Units	Lab Mat	ID: 527 rix: Wat	048-(ter	003	Collected		
Prep Method: 200.8 Dire Cadmium Sample ID: E	ND A-DZUS INFL Result	10		Lab Mat	ID: 527 rix: Wat	048-(ter	003	Collected	l: 02/19/25 15:1	5
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020	A-DZUS INFL Result	10		Lab Mat	<mark>ID: 527</mark> rix: Wat	048-0 ter D	003	Collected	l: 02/19/25 15:1	5
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015	A-DZUS INFL Result	10 Qual	Units	Lab Mate RI	<mark>ID: 527</mark> rix: Wat	048-(ter D	F Batcl 0 36376	Collected	Contemporation in the second secon	5 Chemist KAM
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi	A-DZUS INFL Result	10 Qual	Units	Lab Mate RI	ID: 527 rix: Wat _ MDL	048-(ter D	F Batcl 0 36376	Collected	Analyzed	5 Chemist KAM
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi Sample ID: EA	A-DZUS INFL Result ium 490 A-DZUS INFL 1	10 Qual 0 (F)	Units ug/L	Lab Mate RI	ID: 527 rix: Wat MDL 0 0.95 ab ID: 5	048-0 ter D 5 1 2704	F Batcl 0 36376 8-004	Collected	I: 02/19/25 15:1 Analyzed 02/21/25 d: 02/19/25 15:	5 Chemist KAM 15
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi Sample ID: EA 527048-004 Analyte Method: EPA 300.0	A-DZUS INFL Result ium 490 A-DZUS INFL 1	10 Qual 0 (F)	Units ug/L	Lab Mate RI	ID: 527 rix: Wat MDL 0 0.95 ab ID: 5	048-0 ter D 5 1 2704	F Batcl 0 36376 8-004	Collected	I: 02/19/25 15:1 Analyzed 02/21/25 d: 02/19/25 15:	5 Chemist KAM 15
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi Sample ID: EA 527048-004 Analyte Method: EPA 300.0 Prep Method: METHOD	A-DZUS INFL Result ium 490 A-DZUS INFL 1 Result Qual	10 Qual 0 (F) Units	Units ug/L RL	Lab Mati RI 10 La	ID: 527 rix: Wat MDL 0 0.95 ab ID: 5 Matrix	048-0 ter D 3 1 2704 DF	D03 F Batcl 0 36376 8-004 Batch	Collected Prepared 9 02/21/25 Collecte Prepared	: 02/19/25 15:1 Analyzed 02/21/25 d: 02/19/25 15: Analyzed	5 Chemist KAM 15 Chemis
Prep Method: 200.8 Dire Cadmium Sample ID: E 527048-003 Analyte Method: EPA 6020 Prep Method: EPA 3015 Cadmi Sample ID: EA 527048-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	A-DZUS INFL Result ium 490 A-DZUS INFL 1 Result Qual 4.2 14	10 Qual 0 (F) Units mg/L	Units ug/L RL	Lab Matr RI 10 10 10 0.05	ID: 527 rix: Wat MDL 0 0.95 ab ID: 5 Matrix Water	048-0 ter D 3 1 2704 DF	D03 F Batcl 0 36376 8-004 Batch 363698	Collected	: 02/19/25 15:1 Analyzed 02/21/25 d: 02/19/25 15: Analyzed 02/20/25 19:33	5 Chemist KAM 15 Chemis

J Estimated value

ND Not Detected



Type: Matrix (Source ID):	•				QC1231571 EPA 300.0		B Prep Met		363698 METHOD	
Matrix (Source ID):	water (5270	140-UUZ)		methoa:	EPA 300.0		Prep Mei	inoa: i	METHOD	
QC1231571 Analyte	Result	S	Source Sample Result	Spiked	Units	Recove	ery Qua	IL	imits	DI
Nitrogen, Nitrate	9.465	5	0.7812	9.036	mg/L		5%	8	0-120	
Sulfate	62.75	5	14.75	50.00	mg/L	96	8%	8	0-120	
Type:	Matrix Spike	Duplica	ate	Lab ID): QC123157	2	E	Batch:	363698	
Matrix (Source ID):	-	-		Method	: EPA 300.0		Prep Me		METHOD)
QC1231572 Analyte	5	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	D
Nitrogen, Nitrate		0.7812	9.036	mg/L	97%	Quai	80-120	1		
Sulfate	63.19	14.75	50.00	mg/L	97%		80-120	1	20	
Type: Blank	,	Lab ID:	QC12315	73			Batch:	36369	8	
Matrix: Water			EPA 300.			Prep	Method:		-	
				RL	MDL	Prepare	od.	^	nalyzed	
QC1231573 Analyte	Result	Qual	Units	ᇚᆫ		ricpuic	su su			
QC1231573 Analyte Nitrogen, Nitrate	Result ND	Qual	mg/L	0.10		02/20/25 1			20/25 18:09	9
-		Qual			0.05	•	8:00	02/2	-	
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water	ND ND		mg/L mg/L Lab II Method	0.10 1.0 D: QC123 d: EPA 3	0.05 0.18 31574 00.0	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho	02/2 02/2 ch: 36 od: ME	20/25 18:09 20/25 18:09 20/25 18:09 3698 ETHOD	9
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte	ND ND	Resu	mg/L mg/L Lab II Methoo	0.10 1.0 D: QC123 d: EPA 3	0.05 0.18 31574 00.0 Units	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho	02/2 02/2 ch: 36	20/25 18:09 20/25 18:09 3698 ETHOD Limit	9 s
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate	ND ND	Resu 4.42	mg/L mg/L Lab II Methoo It S	0.10 1.0 D: QC123 d: EPA 3 piked 4.518	0.05 0.18 31574 00.0 Units mg/L	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho overy (98%	02/2 02/2 ch: 36 od: ME	20/25 18:09 20/25 18:09 3698 ETHOD Limit 90-11	9 s 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte	ND ND	Resu	mg/L mg/L Lab II Methoo It S	0.10 1.0 D: QC123 d: EPA 3	0.05 0.18 31574 00.0 Units	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho	02/2 02/2 ch: 36 od: ME	20/25 18:09 20/25 18:09 3698 ETHOD Limit	9 s 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate Type:	ND ND Sample	Resu 4.42 24.5	mg/L mg/L Lab II Method It S 4	0.10 1.0 D: QC12: d: EPA 3 piked 4.518 25.00 Lab ID:	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho 98% 98% 98%	02/2 02/2 ch: 36 od: ME Qual	20/25 18:09 20/25 18:09 3698 THOD Limit 90-11 90-11 363698	9 s 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate	ND ND Sample	Resu 4.42 24.5	mg/L mg/L Lab II Method It S 4	0.10 1.0 D: QC12: d: EPA 3 piked 4.518 25.00 Lab ID:	0.05 0.18 31574 00.0 Units mg/L mg/L	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho 98% 98%	02/2 02/2 ch: 36 od: ME Qual	20/25 18:09 20/25 18:09 3698 THOD Limit 90-11 90-11 363698	9 s 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate Type:	ND ND Sample	Resu 4.42 24.5 e 946-001) § §	mg/L mg/L Lab II Method It S 4	0.10 1.0 D: QC12: d: EPA 3 piked 4.518 25.00 Lab ID: Method:	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575	02/20/25 1 02/20/25 1 Pi	8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met	02/2 02/2 ch: 36 od: ME Qual	20/25 18:09 20/25 18:09 3698 THOD Limit 90-11 90-11 363698	9 s 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	ND ND Sample : Matrix Spike : Water (5270	Resu 4.42 24.5 e 946-001) s s	mg/L mg/L Lab II Method It S 4 9 Source sample	0.10 1.0 D: QC12: d: EPA 3 piked 4.518 25.00 Lab ID:	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575 EPA 300.0	02/20/25 1 02/20/25 1 Pi Recc	8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1	20/25 18:09 20/25 18:09 3698 ETHOD Limit 90-11 90-11 363698 METHOD	9 s 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1231575 Analyte	ND ND Sample : Matrix Spike : Water (5270 Result	Resu 4.42 24.5 e 46-001) S	mg/L mg/L Lab II Method It S 4 9 Source Sample Result	0.10 1.0 D: QC12: d: EPA 3 piked 4.518 25.00 Lab ID: Method:	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575 EPA 300.0 Units	02/20/25 1 02/20/25 1 Pi Recco	8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1	20/25 18:09 20/25 18:09 3698 ETHOD Limit 90-11 90-11 363698 METHOD	9 s 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate QC1231575 Analyte Nitrogen, Nitrate Sulfate	ND ND Sample Sample Matrix Spike Result 8.429 688.7 Matrix Spike	Resu 4.42 24.5 e 46-001) S	mg/L mg/L Lab II Method 11 Source Source Sample Result ND 1168	0.10 1.0 2: QC123 d: EPA 3 5piked 4.518 25.00 Lab ID: Method: 9.036 50.00	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575 EPA 300.0 Units mg/L	02/20/25 1 02/20/25 1 Pr Recc Recover 93 -959 6	8:00 8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met % % % E,NM E	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1 I L 8 A 8 Batch:	20/25 18:09 20/25 18:09 3698 ETHOD Unit 90-11 90-11 363698 METHOD imits 0-120	9 s 0 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate QC1231575 Analyte Nitrogen, Nitrate Sulfate Nitrogen, Nitrate Sulfate Type:	ND ND Sample Sample Matrix Spike 8.429 688.7 Matrix Spike Water (52704	Resu 4.42 24.5 e 46-001) Source	mg/L mg/L Lab II Method 11 Source Source Sample Result ND 1168	0.10 1.0 2: QC123 d: EPA 3 5piked 4.518 25.00 Lab ID: Method: 9.036 50.00	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575 EPA 300.0 Units mg/L mg/L mg/L	02/20/25 1 02/20/25 1 Pr Recc Recover 93 -959 6	8:00 8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met % % % E,NM E	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1 I L 8 A 8 Batch:	20/25 18:09 20/25 18:09 3698 ETHOD Unit 90-11 90-11 90-11 363698 METHOD 0-120 0-120 0-120 363698	9 s 0 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate QC1231575 Analyte Nitrogen, Nitrate Sulfate Nitrogen, Nitrate Sulfate Type:	ND ND Sample Sample Matrix Spike 8.429 688.7 Matrix Spike Water (52704	Resu 4.42 24.5 e 046-001) s s 5 0 7 Duplica 16-001)	mg/L mg/L Lab II Method 11 Source Source Sample Result ND 1168	0.10 1.0 2: QC123 d: EPA 3 5piked 4.518 25.00 Lab ID: Method: 9.036 50.00	0.05 0.18 31574 00.0 Units mg/L mg/L QC1231575 EPA 300.0 Units mg/L mg/L mg/L	02/20/25 1 02/20/25 1 Pr Recc Recover 93 -959 6	8:00 8:00 8:00 Bate rep Metho 98% 98% 98% B Prep Met % % % E,NM E	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1 I L 8 A 8 Batch:	20/25 18:09 20/25 18:09 3698 THOD Limit 90-11 90-11 90-11 363698 METHOD 0-120 0-120 0-120 363698 METHOD 8PD	9 s 0 0 0
Nitrogen, Nitrate Sulfate Type: Lab Control Matrix: Water QC1231574 Analyte Nitrogen, Nitrate Sulfate QC1231575 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): Type: Matrix (Source ID):	ND ND Sample Sample Matrix Spike Water (5270 Result 8.429 688.7 Matrix Spike Water (52704	Resu 4.42 24.5 e 046-001) Source Sample	mg/L mg/L Lab II Method It S 4 9 Source Sample Result ND 1168	0.10 1.0 1.0 0: QC12: d: EPA 3 5piked 4.518 25.00 Lab ID: Method: 9.036 50.00 Lab IE Method	0.05 0.18 31574 00.0 Units mg/L QC1231575 EPA 300.0 Units mg/L mg/L c: QC123157 EPA 300.0	02/20/25 1 02/20/25 1 Pl Recc 93 -959 6	8:00 8:00 8:00 Bate rep Metho 98% 98% 98% 98% B Prep Met % % E,NM % Frep Me	02/2 02/2 ch: 36 od: ME Qual atch: 3 thod: 1 I L 8 A 8 Batch: thod:	20/25 18:09 20/25 18:09 3698 THOD Limit 90-11 90-11 90-11 363698 METHOD 0-120 0-120 0-120 0-120 363698 METHOD	9 s 0 0 0 D 1 0



	QC123181 EPA 6020 Qual		RL	Prep M	Batch: 363 ethod: EP/		A		
	Qual	Units	DI						
	Qual	Units	ы						
ND			RL	MDL	Prepared		Analyzed		
		ug/L	1.0 0	0.095	02/21/25		02/21/25		
ample): QC123			Batch:				
	Method	I: EPA 60)20	Pre	p Method:	EPA 3	015A		
Ros	ult (Spiked	Unite	Boc		امر	Limite	•	
		•			-	101		-	
		100.0			10170		0012		
Matrix Spike		Lab ID:	QC1231815		Batch	ı: 363 ⁻	769		
•) [P					
•	·				•				
	Source								
		Creikad	Unito	Decev	om/ Qual		mito	DE	
		•			•			DF	
101.0		100.0	ug/L		2 /0		-125		
atrix Spike Duplic	ate	l ab ID	· OC1231816		Batc	h: 363	769		
• •									
		motinou		-					
Source)								
			_	- ·			RPD		
	-		-	Qual				DF	
104.3 NL	100.0	ug/L	104%		/5-125	2		1	
Jotrix Spiko		Lab ID:	001001017		Patak	·	760		
•	a 1			P					
Valer (527000-002	, .			<u> </u>					
	Source								
	Sample								
		•	Units		•			DF	
111.4	ND	100.0	ug/L	11	1%	/5	-125	1	
			001001010						
ater (527063-002)		Method	: EPA 6020		rep Method	3: EP/	A 3015A		
Source									
							RPD		
Result Result	t Spiked		Recovery	Qual	Limits	RPD	Lim	DF	
104.9 ND	0 100.0	ug/L			75-125	6	21	1	
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QC1231876 AnalyteResultResultUnitsQualRPDLimCadmium494.0492.2ug/LType: BlankLab ID: QC1231615Batch: 363710Matrix: FiltrateMethod: EPA 6020Prep Method: 200.8 DirectAnalysisQC1231615 AnalyteResultQualUnitsRLMDLCadmiumNDug/L1.00.3902/20/2503Type: Lab Control SampleLab ID: QC1231616Batch: 363710ArrMatrix: FiltrateMethod: EPA 6020Prep Method: 200.8 DirectAnalysisQC1231616 AnalyteResultSpikedUnitsRecoveryQC1231616 AnalyteResultSpikedUnitsRecoveryQualCadmium109.0100.0ug/L109%109%Source </td <td>50 nalyzed 2/21/25</td>	50 nalyzed 2/21/25
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Cadmium 110.7 ND 100.0 ug/L 111% 75-12	
	-
Type: Matrix Spike Duplicate Lab ID: QC1231618 Batch: 363710	25 5
Matrix (Source ID): Filtrate (526748-002) Method: EPA 6020 Prep Method: 200.8 DirectAr	alysis
QC1231618 Analyte Result Result Spiked Units Recovery Qual Limits RPD	RPD Lim DF
Cadmium 109.8 ND 100.0 ug/L 110% 75-125 1	21 5
Type: Serial DilutionLab ID: QC1231621Batch: 363710Matrix (Source ID): Filtrate (527048-004)Method: EPA 6020Prep Method: 200.8 DirectAna	
Source Sample RPD QC1231621 Analyte Result Result Units Qual RPD Lim	alysis
Cadmium 502.2 464.3 ug/L	Ilysis DF 50

E Response exceeds instrument's linear

E range

ND Not Detected

NM Not Meaningful



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

enthalpy.com

Lab Job Number	:	527440
Report Level	:	II
Report Date	:	03/05/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

Miguel Gamboa, Project Manager miguel.gamboa@enthalpy.com

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

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



Sample Summary

Cindy Schreier	Lab Job #:	527440
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	02/26/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 11 -022525	527440-001	02/25/25 08:04	Water
EA-DZUS EFF 11 -022525 (F)	527440-002	02/25/25 08:04	Water
EA-DZUS INFL 11 -022525	527440-003	02/25/25 12:40	Water
EA-DZUS INFL 11 -022525 (F)	527440-004	02/25/25 12:40	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 527440 Location: EA-DZUS Date Received: 02/26/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 02/26/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.



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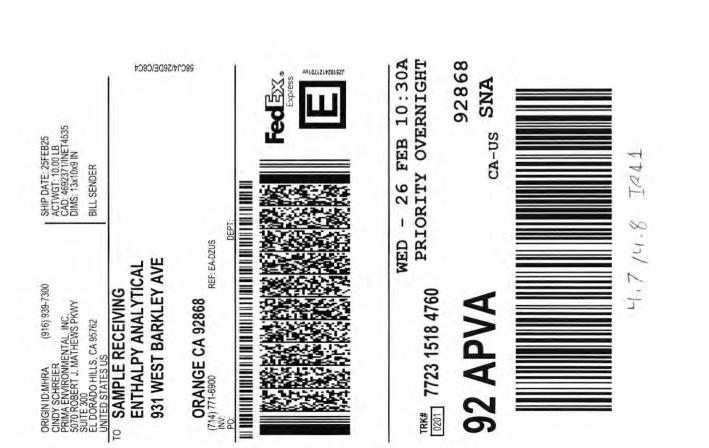
_of _____ Chain of Custody # : Analytical Request Page 1

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Project No:		Sampler:	Sampler: Cindy Schreier		_	-
Project Name:	EA-DZUS	Report To:	Report To: Cindy Schreier			
EDD Format:	Rpt Level: TH TH TH	V Company	IV Company : PRIMA Environmental, Inc.			
Turnaround Time: DRUSH	D RUSH Standard	Telephone	elephone: 916-939-7300	(ete	(0)	(
		Email: data	ata@primaenvironmental.com	Nitrs Nn) b9v6d	(uy	pavle (

		Sampling	bu	Matrix	,×		Chemical	nical		,	(0	fate.		(IstoT	ossic					
Lab No.	Sample ID.	Date	Time	Vater Soil	10 #	Containers	*ONH *OS ⁷ H	HOPN	anoN		Alkalinty VOCs (826	anions (sul	, Metals (Cr,) muimbeO	l) muimbeO					
	EA-DZUS Eff 11 -022525	02/25/25	8:04	×	-	-	^	×			-			×						
	EA- DZUS Eff 11 -022525 (F)	02/25/25	8:04	×	2		^	×	×		-	×			×		2			
	EA-DZUS Infl 11 -022525	02/25/25	12:40	×	-		^	×			-			×						
	EA-DZUS Infl 11 -022525 (F)	02/25/25	12:40	×	2		~	×	×		-	×			×					
Notes:		SAMPLE RECEIPT	CEIPT	RELIN	RELINQUISHED BY:	ED B	-:-	-			-	R	CE	VEL	RECEIVED BY:	-		-		
Nole		SAMPLE RECE	CEIPT	RELI	NQUISH	EDB				10		R (E CE	NEI S	BY:	8	0	10	50,70	L
		On Ice Ambient	nbient	Mai	Muid Sodenger	Juleus	ser.		AM	PRIMA DATE/TIME	SI2	3) 3)	5	34	Ed Ex	1 ×	EA	Y	DATE/TIME	IME
Sam	Samples labeld (F) are field filtered									DATE/TIME	MIT/	in							DATE/TIME	IME
										DATE/TIME	/TIM	111							DATE/TIME	IME

Custody seals intact on arrival? INA Yes No On cooler / box On samples Courier Walk-In Field Sampling Shipping Info: Feed tex Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (P Date Opened 2/26 12-5 By (initials) MC19 Type of ice used: Wet Blue/Gel None Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) Thermometer/IR Gun: Image: 1 for cooler: Observed/Adjusted Temp (°C): Image: 1 for cooler: Image: 1 for coooooo Image: 1 for cooler: <th>Are custody seals present? Yes No hox On samples Control On samples Control On Section Control On Section</th>	Are custody seals present? Yes No hox On samples Control On samples Control On Section
Section 2: Shipping / Custody Are custody seals present? Custody seals intact on arrival? (IN/A I Yes I No On cooler / box I on samples Courier Walk-In I Field Sampling Stabipping Info: Section 3a: Condition / Packaging I Outside 0.0 - 6.0° (0.0 - 10.0°C for microbiology) (P Date Opened 2/26[125] By (initials) // C.I Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) I Samples matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): / Cooler Temp (*C) #1: <u>U.7 / U.S</u> #2: #3: I Adequate headspace for microbiology analysis. Section 3b: Microbiology Samples I Adequate headspace for microbiology analysis. Section 4: Containers / Labels / Samples I 1.4L Canisters Tedlar Bags I 2.1 L Canisters Tedlar Bags I Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were containers received in good condition (unbroken / unopened / uncompromised)? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? 6) Are sample labels present, legi	Are custody seals present? Yes No hox On samples Control On samples Control On Section
Courier Walk-In Field Sampling MShipping Info: Fed tx Section 3a: Condition / Packaging Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (P Date Opened 2/26/25 By (initials) NC (4 Type of ice used: Wet Blue/Gel None Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): / Thermometer/IR Gun: If A 4 CF: Cooler Temp (*C) #1: 4.7.7.4.8. #2: #3: /// #4: #5: // #6: /// Section 3b: Microbiology Samples In omicrobiology samples submitte In omicrobiology samples submitte Within temp range 0.0 - 10.0°C or received on ice directly from field. In A dequate headspace for microbiology analysis. Section 4: Containers / Labels / Samples In No air samples submitte 1.4L Canisters I colaristers Tedlar Bags MCE Cassettes Sorbent Tubes Other 1.4L Canisters I be sampler's name present on the CoC? Image: Image: Image: Image: Image: 1.4L Canisters I be ordinainer scieved in good condition (unbroken / unopened / uncompromised)? Image:	Image: Contract of the second seco
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Date Opened 2/26 125 By (initials) // C (4/	ed: Wet Blue/Gel None checked, skip temperatures) aperatures) Thermometer/IR Gun: IR 14 CF: 40.4 #5: / #6: / No microbiology samples submitted (skip 3b) No air samples submitted (skip 3c) Sorbent Tubes Other YES NO N/A YES NO N/A
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□ Adequate headspace for microbiology analysis. Section 3c: Air Samples □ 1.4L Canisters □ 6L Canisters □ Tedlar Bags MCE Cassettes Sorbent Tubes ○ U+	Other YES NO N/A X omised)?
Section 3c: Air Samples Invo air samples submitt 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	Other YES NO N/A X omised)?
1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES N 1) Were custody papers present, filled properly, and legible? X 2 2) Is the sampler's name present on the CoC? X 3 3) Were containers received in good condition (unbroken / unopened / uncompromised)? X 4 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) X 5 5) Were all of, and only, the correct samples received? X 5 6) Are sample labels present, legible, and in agreement with the CoC? X 5 7) Does the container count match the CoC? X 5 8) Was sufficient sample volume / mass received for the analyses requested? X 5 9) Were samples received in proper containers for the analyses requested? X 5 10) Were samples received with > 1/2 holding time remaining? X 5 11) Are samples properly preserved as indicated by CoC / labels? X 5 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? X 5	Other YES NO N/A X omised)?
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11) Are samples properly preserved as indicated by CoC / labels? 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	
13) Are VOA viais free from headspace/bubbles > 6mm?	
Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)	



After printing this label. CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

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Analysis Results for 527440

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 527440 Location: EA-DZUS Date Received: 02/26/25

Sample ID: EA-DZUS EFF 11 -02	22525					527440 Water	-001		Collected:	02/25/25 08:04	
527440-001 Analyte	R	esult	Qual	Units	RI	L MDL	D	F Batc	h Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015	۸										
Cadmi		0.55	J	ug/L	1.(0.26	i	1 36430	02/26/25	02/26/25	DXC
Sample ID: EA-DZUS EFF 11 -02	22525 (F	:)			Lab I	D: 5274	40-0	02	Collected	02/25/25 08:0	4
527440-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD											
Nitrogen, Nitrate	1.1		mg/L	0.10	0.05	Water	1	364277	02/26/25 11:50	02/26/25 19:26	JAA
Sulfate	16		mg/L	1.0	0.18	Water	1	364277	02/26/25 11:50	02/26/25 19:26	JAA
Prep Method: 200.8 Dire Cadmium	ectAnalysi ND	is	ug/L	1.0	0.39	Filtrate	1	364323	02/26/25	02/26/25	DXC
Sample ID: EA-DZUS INFL 11 -0	22525					527440 Water	-003		Collected:	02/25/25 12:40	
527440-003 Analyte	R	esult	Qual	Units	RI	_ MDL	D	F Batc	h Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015	A										
				ua/l	1(-	0 36430	02/26/25	02/26/25	DXC
Cadmi	um	380		ug/L	П	0.95	1	0 36430	12 02/20/25	02/20/23	DAG
•	-			ug/L		D 0.95				· 02/25/25 12:4	
Cadmi Sample ID: EA-DZUS INFL 11 -0 527440-004 Analyte	-	F)	Units								0
Cadmi)22525 (I	F)	Units		Lab I	D: 5274	40-0	004	Collected	: 02/25/25 12:4	
Cadmi Sample ID: EA-DZUS INFL 11 -0 527440-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	022525 (I Result 4.3	F)	mg/L	RL 0.10	Lab MDL 0.05	D: 5274 Matrix Water	40-0	004 Batch 364277	Collected Prepared 02/26/25 11:50	: 02/25/25 12:4 Analyzed 02/26/25 19:48	0 Chemist
Cadmi Sample ID: EA-DZUS INFL 11 -0 527440-004 Analyte Method: EPA 300.0 Prep Method: METHOD	022525 (I Result	F)		RL	Lab I MDL	D: 5274 Matrix	40-0	004 Batch	Collected Prepared	: 02/25/25 12:4 Analyzed	0 Chemis
Cadmi Sample ID: EA-DZUS INFL 11 -0 527440-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	022525 (I Result 4.3 15	F) Qual	mg/L	RL 0.10	Lab MDL 0.05	D: 5274 Matrix Water	1 40-0 DF	004 Batch 364277	Collected Prepared 02/26/25 11:50	: 02/25/25 12:4 Analyzed 02/26/25 19:48	0 Chemist

J Estimated value

ND Not Detected



Matrix: Water			QC12333 EPA 300.				atch: 364 hod: ME ⁻		
QC1233338 Analyte	Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Nitrogen, Nitrate	ND	duu.	mg/L	0.10		02/26/25 11:50	0	2/26/25 14:1	1
Sulfate	ND		mg/L	1.0	0.18	02/26/25 11:50		2/26/25 14:1	
Type: Lab Control	Sample		Lab I				Batch:		
Matrix: Water			Metho	d: EPA 3	300.0	Prep	Method:	METHOD	
QC1233339 Analyte		Resu	lt S	Spiked	Units	Recovery	y Qual	Limi	ts
Nitrogen, Nitrate		4.51	5	4.518	mg/L	100%	, 0	90-1	10
Sulfate		24.8	2	25.00	mg/L	99%	0	90-1	10
Toma	Mateiro Onilia			Lak ID.	001000040		Datah	004077	
I ype: Matrix (Source ID):	Matrix Spike			Lab ID: Method:		Pre		: 364277 METHOD)
				mothou			p motiou.		-
		-	Source						
QC1233340 Analyte	Result		ample Result	Spiked	Units	Recovery	Qual	Limits	1
Nitrogen, Nitrate	9.108		ND	9.036	mg/L	101%	Quui	80-120	
0	71.06		21.87	50.00	mg/L	98%		80-120	
Sulfate Type: Matrix (Source ID):	•	8-001)	ate		D: QC123334 d: EPA 300.0			: 364277 : METHOI	כ
Type: Matrix (Source ID):	Water (52733	8-001) Source ample		Methoo	d: EPA 300.0	Pre	ep Method	: METHOI	
Type: Matrix (Source ID): QC1233341 Analyte	Water (52733) S Result	8-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery	Qual Lin	ep Method nits RI	RPD FD Lim	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate	Water (52733) S Result 8.882	8-001) Source ample Result ND	Spiked 9.036	Methoo Units mg/L	d: EPA 300.0 Recovery 98%	Qual Lin	nits RI	RPD PD Lim 3 20	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate	Water (52733) S Result	8-001) Source ample Result	Spiked	Methoo Units	d: EPA 300.0 Recovery	Qual Lin	ep Method nits RI	RPD FD Lim	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate	Water (52733) S Result 8.882	8-001) Source ample Result ND 21.87	Spiked 9.036	Method Units mg/L mg/L	d: EPA 300.0 Recovery 98%	Qual Lin	nits RI 120 120	RPD PD Lim 3 20	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate	Water (52733) S Result 8.882 69.84 : Matrix Spike	8-001) Source ample Result ND 21.87	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 98% 96%	Qual Lin 80- 80-	nits RI 120 120 Batch	: METHOI PD Lim 3 20 2 20	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52733) S Result 8.882 69.84 : Matrix Spike	8-001) Source ample Result ND 21.87 19-006)	Spiked 9.036 50.00	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 98% 96% QC1233526	Qual Lin 80- 80-	nits RI 120 120 Batch	 METHOI RPD Lim 3 20 2 20 2 364277 	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Water (52733) S Result 8.882 69.84 : Matrix Spike	8-001) Source ample Result ND 21.87 19-006) S	Spiked 9.036 50.00	Method mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 98% 96% QC1233526	Qual Lin 80- 80- Pre	nits RI 120 120 Batch: p Method:	 METHOI RPD Lim 3 20 2 20 2 364277)
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte	Water (52733) S Result 8.882 69.84 Matrix Spike Water (5274)	8-001) Source ample Result ND 21.87 19-006) S	Spiked 9.036 50.00 Source ample	Method Units mg/L mg/L Lab ID:	d: EPA 300.0 Recovery 98% 96% QC1233526 EPA 300.0	Qual Lin 80- 80-	nits RI 120 120 Batch	: METHOI PD Lim 3 20 2 20 : 364277 : METHOE)
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate	Water (52733) S Result 8.882 69.84 Matrix Spike Water (5274) Result	8-001) Source ample Result ND 21.87 19-006) S	Spiked 9.036 50.00 Source ample Result	Method Units mg/L mg/L Lab ID: Method:	d: EPA 300.0 Recovery 98% 96% QC1233526 EPA 300.0 Units	Qual Lin 80- 80- Pre Recovery	nits RI 120 120 Batch: p Method:	: METHOI RPD D 2 2 3 3 4 5 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1)
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate	Water (52733) S Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6	8-001) Source ample Result ND 21.87 19-006) S S	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method Units mg/L mg/L Lab ID: Method: Spiked 9.036 50.00	d: EPA 300.0 Recovery 98% 96% QC1233526 EPA 300.0 Units mg/L mg/L	Qual Lin 80- 80- 80- 80- Pre 94-% -200% -200%	ep Method nits RI 120 120 Batch: p Method: Qual E,NM	: METHOI PD Lim 3 20 2 20 : 364277 : METHOE Limits 80-120 80-120	[
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52733) S Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6	8-001) Source ample Result ND 21.87 19-006) S S I Duplica	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 98% 96% QC1233526 EPA 300.0 Units mg/L	Qual Lin 80- 80- 80- 80- Pre 94% -200% 7	ep Method nits RI 120 120 Batch p Method: Qual E,NM Batch	 METHOI RPD Lim 3 20 2 20 364277 METHOE 80-120 80-120 80-120 364277)
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate	Water (52733) S Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6	8-001) Source ample Result ND 21.87 19-006) S S I Duplica	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 98% 96% 96% QC1233526 EPA 300.0 Units mg/L mg/L mg/L 2: QC123352	Qual Lin 80- 80- 80- 80- Pre 94% -200% 7	ep Method nits RI 120 120 Batch p Method: Qual E,NM Batch	: METHOI PD Lim 3 20 2 20 : 364277 : METHOE Limits 80-120 80-120	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52733) Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6 Matrix Spike Water (5274)	8-001) Source ample Result ND 21.87 19-006) Source	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 98% 96% 96% QC1233526 EPA 300.0 Units mg/L mg/L mg/L 2: QC123352	Qual Lin 80- 80- 80- 80- Pre 94% -200% 7	ep Method nits RI 120 120 Batch p Method: Qual E,NM Batch	: METHOI PD Lim 3 20 2 20 : 364277 : METHOE 80-120 80-120 : 364277 : METHOI	
Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID):	Water (52733) Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6 Matrix Spike Water (5274) S	8-001) Source ample Result ND 21.87 19-006) Source ample	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 98% 96% QC1233526 EPA 300.0 Units mg/L mg/L D: QC123352 d: EPA 300.0	Qual Lin 80- 80- 80- Pre Pre 94% -200%	ep Method nits Rl 120 120 Batch: p Method: Cual E,NM Batch ep Method	 METHOI RPD Lim 3 20 2 20 364277 METHOI 80-120 80-120 364277 METHOI 	
Type: Matrix (Source ID): QC1233341 Analyte Nitrogen, Nitrate Sulfate Type: Matrix (Source ID): QC1233526 Analyte Nitrogen, Nitrate Sulfate Type:	Water (52733) Result 8.882 69.84 Matrix Spike Water (5274) Result 14.66 554.6 Matrix Spike Water (5274) S	8-001) Source ample Result ND 21.87 19-006) Source	Spiked 9.036 50.00 Source ample Result 6.179 654.5	Method Units mg/L mg/L Lab ID: Method: 9.036 50.00	d: EPA 300.0 Recovery 98% 96% 96% QC1233526 EPA 300.0 Units mg/L mg/L mg/L 2: QC123352	Qual Lin 80- 80- 80- 80- 80- Pre Pre 94% -200%	ep Method nits Rl 120 120 Batch: p Method: Cual E,NM Batch ep Method	: METHOI PD Lim 3 20 2 20 : 364277 : METHOE 80-120 80-120 : 364277 : METHOI)



Batch QC

Type: Blank Matrix: Water		D: QC123			Prep N	Batch: lethod:			
			020			lotiloui			
QC1233433 Analyte	Resul			RL	MDL	Prepare		Analyze	
Cadmium	NE)	ug/L	1.0	0.095	02/26/2	25	02/26/25	5
Type: Lab Control	Sample	La	b ID: QC123	3434		Bat	ch: 36	64302	
Matrix: Water		Met	hod: EPA 6	020	Pr	ep Metho	od: E	PA 3015A	
QC1233434 Analyte	R	esult	Spiked	Units	Re	covery	Qua	l Limi [:]	ts
Cadmium	1	104.1	100.0	ug/L		104%		80-12	20
Type:	Matrix Spike		Lab ID:	QC1233435		P	atabi	364302	
Matrix (Source ID):	•	01)		EPA 6020				EPA 3015A	
QC1233435 Analyte Cadmium	Result 111.7	Source Sample Result 0.7910	Spiked	Units ug/L	Reco 1	very G 11%	ual	Limits 75-125	DF 1
Type: Matrix (Source ID):	• •			: QC123343 : EPA 6020	6			364302 EPA 3015A	1
QC1233436 Analyte	Sour Samp Result Res 103.8 0.79	ole ult Sp	iked Units 00.0 ug/L	Recovery		Limits 75-125		RPD RPD Lim 7 21	DF 1
					•		-		
Type: Matrix (Source ID):	Serial Dilution Water (527440-00	03)		QC1233501 EPA 6020				364302 EPA 3015A	
QC1233501 Analyte Cadmium		Result 387.8	Source Sample Result 376.1	Units ug/L	Qual		RPD	RPD Lim	DF 5(
Type: Blank	Lab ID: Q	C123350	7	В	atch: 36	4323			
Matrix: Filtrate	Method: E			Prep Met			ctAnal	ysis	
QC1233507 Analyte	Resu			RL	MDL	Prepare		Analyze	
Cadmium	N	0	ug/L	1.0	0.39	02/26/2	25	02/26/25	2
Type: Lab Control S Matrix: Filtrate			QC1233508 EPA 6020	Prep		1: 36432 1: 200.8		Analysis	
QC1233508 Analyte		esult	Spiked	Units	Re	covery	Qua		
Cadmium		100.4	100.0	ug/L		100%		80-12	20



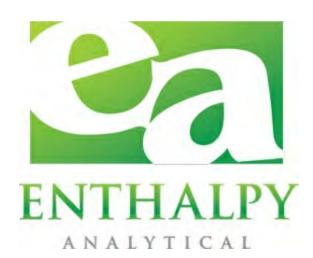
Type: Matrix (Source ID):	Matrix Spike Filtrate (527348-001)	Lab ID: Method:	QC1233509 EPA 6020		364323 200.8 DirectAnalysis	
	· · ·	Source Sample			200.0 DirectAnalysis	
QC1233509 Analyte	Result	•	Spiked Units	s Recovery	Qual Limits	DF
Cadmium	108.7	ND	100.0 ug/L	109%	75-125	1
Туре:	Matrix Spike Duplicate	e Lab IC): QC123351	0 Batch	: 364323	
Matrix (Source ID):	Filtrate (527348-001)	Method	I: EPA 6020	Prep Method:	200.8 DirectAnalysis	3
QC1233510 Analyte	Source Sample Result Result		Units Re	covery Qual Li	RPD mits RPD Lim	DF
Cadmium	107.6 ND		ug/L	···· , ····	5-125 1 21	1
			0			
Type:	Serial Dilution	Lab ID:	QC1233511	Batch:	364323	
	Filtrate (527440-004)	Method:	EPA 6020	Prep Method:	200.8 DirectAnalysis	
QC1233511 Analyte	Re	S	Source Sample Result Un	its Qual	RPD RPD Lim	DF
Cadmium		10.1	396.7 ug			50
			- 0			

E Response exceeds instrument's linear

E range

ND Not Detected

NM Not Meaningful



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

enthalpy.com

Lab Job Number	:	527849
Report Level	:	II
Report Date	:	03/11/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	527849
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	03/04/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 12-030325	527849-001	03/03/25 07:45	Water
EA-DZUS EFF 12-030325 (F)	527849-002	03/03/25 07:45	Water
EA-DZUS INFL 12-030325	527849-003	03/03/25 11:00	Water
EA-DZUS INFL 12-030325 (F)	527849-004	03/03/25 11:00	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 527849 Location: EA-DZUS Date Received: 03/04/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 03/04/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Project No: EDD Format:	Login 527846																
Project No: EDD Format:	527849											1		nalytic	Analytical Request	1	
Project No: Project Name: EDD Format: Turnaround Tim			C&T L	C&T LOGIN#	3	6/18/	51										
Project Name: EDD Format:		4	Samp	er: C	indy Sch	reier				_							
EDD Format:	EA-DZUS		Repor	t To: C	indy Sch	reier			ĩ								
Turnaround Tin	Rpt Level:		V Comp	any : P	PRIMA Environmental, Inc.	iviron	nenta	al, Inc	1.0								
	D RUSH	⊠ Standard	Telepl	none: 9	16-939-7	300			1		(ette	1		(
			Email: data@primaenvironmental.com	data@	primaen	vironn	nenta	l.con			sitiN	_		Davi			
		Sampling	Bu	Matrix	×	Pre	Chemical Preservative	cal		(09	atefli			05510)			
Lap No.	Sample ID.	Date	Time	Water Soil	# of Containers	H ⁵ 2O⁵ HCI	^E ONH	HOEN	Anone	VOCs (82	Alkalinty anions (su	nO) eletals (Cr	muimbeO	muimbeO			
EA-D	EA-DZUS Eff 12 -030325	03/03/25	7:45	×	-		×			-	+ +						
j	(E)	03/03/25	7:45	×	2		×	~	×		×			×			
EA-DZ	EA-DZUS Infl 12 -030325	03/03/25	11:00	×	-		×				-		×				
EA-DZL	EA-DZUS Infl 12 -030325 (F)	03/03/25	11:00	×	2		×		×		×			×			
Notes:		SAMPLE RECEIPT	CEIPT	RELIN	RELINQUISHED BY:	D BY	1				R	UCE -	RECEIVED BY:	BY:			
		D Intact Cold	d bient	Merice	Mariner Suchemper	lema		PRIM	0363125 PRIMA DATE/TIME	03 lc3 l25 DATE/TIMI		5:00	Fed	FedEx		10	DATE/TIME
Samples labeld	Samples labeld (F) are field filtered	1.5/1.5	1121						.PD	DATE/TIME	UE I	1			2/4	11 DATE	D D D DATE/TIME
									DA ⁻	DATE/TIME	ΛE	- 11				D	DATE/TIME

SAMPLE RECEIPT CHECKLIST		12	
Section 1: General Info Date Received: 3/4/25 WO# 527849 Client: PRIMA Environmental		INU	IALPY
Section 2: Shipping / Custody Are custody seal	s present	? 🗆 Yes	× No
Custody seals intact on arrival? IN/A Yes No On cooler / box On samples			
Courier Walk-In Field Sampling Shipping Info: FEDEX			
Section 3a: Condition / Packaging 🛛 Outside 0.0 - 6.0°C (0.0 - 10.0°C for mice	obiology) (PM no	tified)
Date Opened 3/4/25 By (initials) GCK Type of ice used: Wet Blue/Gel	D Non	e	1.0
□ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)			
□ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Adjusted Temp (°C):/ Thermometer/IR Gun: IR11		F: +0.1	_
Cooler Temp (°C) #1: <u>5.1</u> / <u>5.2</u> #2: #3: #4: #5: #6:	_/		-
Section 3b: Microbiology Samples	oles subn	nitted (sl	cip 3b)
□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
Adequate headspace for microbiology analysis.			
Section 3c: Air Samples No air sam		nitted (s	kip 3c)
□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □ Oth			
Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) Is the sampler's name present on the CoC?	Х	12.14	_
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	х		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	х		
5) Were all of, and only, the correct samples received?	х		
6) Are sample labels present, legible, and in agreement with the CoC?	х		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	х		
9) Were samples received in proper containers for the analyses requested?	х		
10) Were samples received with > 1/2 holding time remaining?	х		
11) Are samples properly preserved as indicated by CoC / labels?	х		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			Х
13) Are VOA vials free from headspace/bubbles > 6mm?			Х
Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)			
			Ξ
			_
No additional discrepancies			-
Date Logged _3/4/25 By (print) FPDIWA (sign) /			
Date Labeled 3/4/25 By (print) FPDIWA (sign)			_

6	of	10	



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Analysis Results for 527849

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 527849 Location: EA-DZUS Date Received: 03/04/25

Sample ID: EA-DZUS EFF 12-03	30325					527849- Water	001		Collected:	03/03/25 07:45	
527849-001 Analyte	R	lesult	Qual	Units	RI	L MDL	D	F Batc	h Prepared	Analyzed	Chemist
Method: EPA 6020	- ^										
Prep Method: EPA 3015 Cadm		1.7		ug/L	1.(0.26		1 3649	62 03/05/25	03/05/25	DXC
oddin				ug/L		0.20	,	1 0010	00,00,20	00/00/20	BAG
Sample ID:					Lab ID	D: 52784	19-00)2	Collected	03/03/25 07:4	5
EA-DZUS EFF 12-03	30325 (F)									
527849-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 300.0 Prep Method: METHOD)										
Nitrogen, Nitrate	2.5		mg/L	0.10	0.05	Water	1	364843	03/04/25 13:45	03/04/25 19:14	KUM
Sulfate	16		mg/L	1.0	0.18	Water	1	364843	03/04/25 13:45	03/04/25 19:14	KUM
Method: EPA 6020 Prep Method: 200.8 Dire	ectAnalys	is									
Cadmium	1.0		ug/L	1.0	0.49	Filtrate	1	364858	03/04/25	03/04/25	DXC
Sample ID: EA-DZUS INFL 12-0	20205			-	-	527849	-003		Collected:	03/03/25 11:00	
EA-DZUS INFL 12-0	130325			IVI	atrix:	Water					
527849-003 Analyte	R	lesult	Qual	Units	RI	MDL	D	F Batc	h Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015	5A										
		000		ug/L	1() 2.6	1	0 36496	62 03/05/25	03/05/25	DXC
Cadm	nium	280		ug/L			-				
	iium	280		ug/L				04	Collected	: 03/03/25 11:0	0
Cadm Sample ID: EA-DZUS INFL 12-0	-			ug/L		D: 5278		04	Collected	: 03/03/25 11:0	0
Sample ID: EA-DZUS INFL 12-0	-	=)	Units					04 Batch			0 Chemis
Sample ID: EA-DZUS INFL 12-0 527849-004 Analyte Method: EPA 300.0	030325 (F Result	=)	Units		Lab I	D: 5278	49-0		Collected Prepared	: 03/03/25 11:0 Analyzed	
Sample ID: EA-DZUS INFL 12-0 527849-004 Analyte Method: EPA 300.0	030325 (F Result	=)	Units mg/L		Lab I	D: 5278	49-0				
Sample ID: EA-DZUS INFL 12-0 527849-004 Analyte Method: EPA 300.0 Prep Method: METHOD	030325 (F Result	=)		RL	Lab I MDL	D: 5278 Matrix	49-0	Batch	Prepared	Analyzed	Chemis
Sample ID: EA-DZUS INFL 12-0 527849-004 Analyte Method: EPA 300.0 Prep Method: METHOD Nitrogen, Nitrate	030325 (F Result 4.3 15	-) Qual	mg/L	RL 0.10	Lab I MDL 0.05	D: 5278 Matrix Water	49-0 DF	Batch 364843	Prepared 03/04/25 13:45	Analyzed 03/04/25 19:36	Chemis



Type: Metrix (Course ID)	•		、	Lab ID:		1		atch: 3		
Matrix (Source ID):	: Water (5277	/95-001)	Method:	EPA 300.0		Prep Met	thod: N	NETHOD	
			Source							
			Sample							
QC1235241 Analyte	Resul		Result	Spiked	Units	Recov	very Qua	I Li	mits	0
Nitrogen, Nitrate	11.8	5	2.577	9.036	mg/L	1()3%	80)-120	
Sulfate	64.20)	13.28	50.00	mg/L	10)2%	80)-120	
						10				_
Туре:	•	-	ate					Batch: 3		
Matrix (Source ID):	Water (52779	95-001)		Method	d: EPA 300.	0	Prep Me	thod: I	METHOD	
		Source								
		Sample							RPD	
QC1235242 Analyte	Result	Result	Spiked	Units	Recovery	/ Qual	Limits	RPD	Lim	0
Nitrogen, Nitrate	12.05	2.577	9.036	mg/L	105%	þ	80-120	2	20	
Sulfate	65.35	13.28	50.00	mg/L	104%	, >	80-120	2	20	
Type: Blank		Lab ID:						364843		
Matrix: Water	N	lethod:	EPA 300.	0		Prej	o Method:	METHO	DC	
QC1235243 Analyte	Result	Qual	Units	RL	MDL	Prepa	red	Α	nalyzed	
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	03/04/25	13:45	03/0	4/25 13:58	3
Sulfate	ND		mg/L	1.0	0.18	03/04/25	13:45	03/0	4/25 13:58	3
Type: Lab Control	Sample			D: QC12		_		ch: 364		
Matrix: Water			Metho	d: EPA 3	300.0		Prep Metho	od: ME	THOD	
QC1235244 Analyte		Resu	ult S	piked	Units	Bec	covery (Qual	Limit	s
Nitrogen, Nitrate		4.5		4.518	mg/L		100%		90-11	0
Sulfate		24.9	99	25.00	mg/L		100%		90-11	0
Type: Blank			QC123562	3			Batch: 36			
Matrix: Water	Me	ethod:	EPA 6020			Prep M	ethod: E	PA 3015	A	
QC1235623 Analyte	F	Result	Qual	Units	RL	MDL	Prepared		Analyzeo	
		ND		ug/L		0.095	03/05/25		03/05/25	
Cadmium										
Cadmium			=				_		•	
Cadmium Type: Lab Control	Sample			QC1235				: 36496		
Cadmium	Sample			QC1235 EPA 60		Pre	Batch p Method:			
Cadmium Type: Lab Control	Sample	Resu	Method				p Method:			



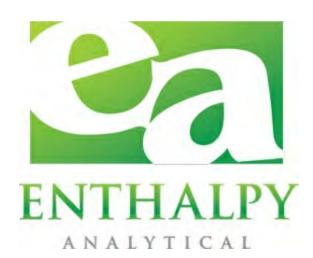
Type: Matrix (Source ID):	Matrix Spike Water (527980-005)		Lab ID: QC1235625 Method: EPA 6020			Batch: 364962 Prep Method: EPA 3015A			
QC1235625 Analyte Cadmium	Result 100.6	Sourc Sampl Resu N	e It	Spiked 100.0	Units ug/L	Reco 1	very Qual	Limits 75-125	DF 10
Type: Matrix (Source ID):	Matrix Spike Do Water (527980-	•		Lab ID Method	: QC1235626 : EPA 6020		Batch Prep Method	n: 364962 : EPA 301	5A
QC1235626 Analyte Cadmium	Sa		piked 100.0	Units ug/L	Recovery 97%	Qual	Limits 75-125	RPD RPD Lim 4 21	-
Type: Matrix (Source ID):	Matrix Spike Water (527980	-006)			QC1235627 EPA 6020		Batch Prep Method:	: 364962 : EPA 301	5A
QC1235627 Analyte Cadmium	Result 101.0	Sourc Sampl Resu N	e It	Spiked 100.0	Units ug/L	Reco 1	very Qual	Limits 75-125	DF 10
Type: Matrix (Source ID):	Matrix Spike Du Water (527980-	•		Lab ID Method	: QC1235628 : EPA 6020		Batch Prep Method	1: 364962 1: EPA 301	5A
QC1235628 Analyte Cadmium	Sa		piked 100.0	Units ug/L	Recovery 98%	Qual	Limits 75-125	RPD 3 21	-
Type: Matrix (Source ID):	Serial Dilution Water (527849		_		QC1235673 EPA 6020		Batch Prep Method:	: 364962 : EPA 301	5A
QC1235673 Analyte Cadmium		Result 279.7		Source Sample Result 276.5	Units ug/L	Qual	RPD	RPD Lim	DF 50
Type: Blank Matrix: Filtrate		QC123520 EPA 6020				tch: 36 od: 20	64858 00.8 DirectAna	alysis	
QC1235285 Analyte Cadmium	Re	sult Qua ND	al	Units ug/L		MDL 0.49	Prepared 03/04/25	Analy 03/04	



Batch QC

Type: Lab Contro Matrix: Filtrate		ab ID: QC123 ethod: EPA 6		Batch: 36 Prep Method: 20		Analysis	
QC1235286 Analyte	Res	•	ked Units	Recove		Limit	-
Cadmium	10	1.9 1	00.0 ug/L	102	%	80-12	:0
Туре:	Matrix Spike	Lab ID:	QC1235287	Batch:	364858		
Matrix (Source ID):	Filtrate (527766-001)	Method:	EPA 6020	Prep Method:	200.8 Dire	ectAnalysis	
001025097 Analyta	Result	Source Sample Result	Spiked Unit	a Baaayami	Qual	Limits	DF
QC1235287 Analyte	104.9	ND	Spiked Unit	- ····,	Quai	75-125	5
••	Matrix Spike Duplicat Filtrate (527766-001) Source Sample	Metho	D: QC123528 d: EPA 6020	8 Batch Prep Method	: 364858 : 200.8 Dir	rectAnalysis RPD	;
QC1235288 Analyte	Result Result		Units Re	ecovery Qual Li	imits R	PD Lim	DF
Cadmium	103.5 NE	0 100.0	ug/L	103% 75	5-125	1 21	5
	Serial Dilution Filtrate (527849-004)	Lab ID: Method:	QC1235289 EPA 6020	Batch: Prep Method:	364858 200.8 Dire	ectAnalysis	
QC1235289 Analyte	Re		Source Sample Result Ur	nits Qual	RPD	RPD Lim	DF
Cadmium	2	73.6	291.6 u	g/L			50

ND Not Detected



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

enthalpy.com

Lab Job Number	:	528274
Report Level	:	II
Report Date	:	03/14/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

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

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

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



Sample Summary

Cindy Schreier	Lab Job #:	528274
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	03/07/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS EFF 13-030625	528274-001	03/06/25 07:44	Water
EA-DZUS EFF 13-030625 (F)	528274-002	03/06/25 07:44	Water
EA-DZUS INFL 13-030625	528274-003	03/06/25 10:35	Water
EA-DZUS INFL 13-030625 (F)	528274-004	03/06/25 10:35	Water



Case Narrative

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier Lab Job Number: 528274 Location: EA-DZUS Date Received: 03/07/25

This data package contains sample and QC results for four water samples, requested for the above referenced project on 03/07/25. The samples were received cold and intact.

Metals (EPA 6020) Water:

No analytical problems were encountered.

Metals (EPA 6020) Filtrate:

No analytical problems were encountered.

Enth:	Enthalpy Analytical LLC 931 West Barklev Ave		CHAIN OF CUSTODY		Z	Ö			S	E I	0	≿			Chai	n of	Custo	Page Chain of Custodv #	-	of	-		
Orange (714) 7	Orange, CA 92868 (714) 771-6900 Phone								Roin 528374	LCOC						A	alyti	cal	Analytical Request	lest			
			C&T L	T LOGIN #	# Z		055																
Project No:			Sampler:	ler:	Cin	Cindy Schreier	hrei	er				_	_	-	-	_							
Project Name:	EA-DZU	Report To: Cindy Schreier	Repor	t To:	Cin	dy So	hrei	Ŀ						-	-								
EDD Format:			V Comp	any	PR	MAE	Invir	muo	enta	1	ن ا			-							-		
Turnard	Turnaround Time: DRUSH 🔤 🛛 S	⊠ Standard	Telepl	none	: 916	ephone: 916-939-7300	730	0			t i			(əte)		(
			Email: data@primaenvironmental.com	data	a@p	imae	nvird	nme	ental	CON													
		Sampling	Bu	Σ	Matrix			Chemical Preservative	Chemical reservativ	al		(09			N. C								
Lab No.	Sample ID.	Date	Time	Vater lio2		10 #	Containers	[⊅] OS ^z H	[©] ONH	HOPN	anoN	VOCs (826	Alkalinty	anions (su	nO) eletals (Cr	muimbe) muimbe)							
	EA-DZUS Eff 13 -030625	03/06/25	7:44	×		-			×						Ê	×			-				
	EA- DZUS Eff 13 -030625 (F)	03/06/25	7:44	×		-			×							×							
	EA-DZUS Infl 13 -030625	03/06/25	10:35	×		-			×	-					<u>^</u>	×							
	EA-DZUS Infl 13 -030625 (F)	03/06/25	10:35	×		-			×							×							
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Notes.			CEIPT	RE	N	RELINQUISHED BY:	E	3	-				-	REC	EI	RECEIVED BY:	37:		-				
		□ Intact □ Cold □ On Ice □ Ambient	ld bient	m	itic	Marier Dickinga	Over	ing	1	RI	ORIHADATE/TIME	o3/ce/25	S	(5)	Ed 15:00	い と と と と	v					DATE	DATE/TIME
Sample	Samples labeled (F) field filtered										DA	DATE/TIME	ME	A	00	$\left(\right)$				217	275	DATE) DATE/TIME
			Ĩ								DA	DATE/TIME	ME)						2		DATE	DATE/TIME

Section 1: General Info Date Received: 3/7/25	WO# 52827 Client:	Prima Env		INT	HALPY
	? • N/A 그 Yes 그 No 그 On coo ield Sampling 國Shipping Info: 군군은	Are custody s ler / box	eals presen	t? 🗆 Ye	s 🚳 I
Section 3a: Condition / Packagir Date Opened 3/7/25 By (i Samples received on ice direct Sample matrix doesn't require If no cooler: Observed/Adjusted Cooler Temp (°C) #1: 4-2 / 4 Section 3b: Microbiology Sampl Within temp range 0.0 - 10.0°	G Outside itials) <u>DEP</u> Type of ice by from the field; cooling process had begun. cooling (e.g. air, bulk PCB). (if checked, skip t emp (°C):/ $\frac{2}{3\pi 2}$: <u>Get (Get 43</u> ;/ 5 Cor received on ice directly from field.	e 0.0 - 6.0°C (0.0 - 10.0°C for n used: Wet Blue/G (if checked, skip temperature temperatures) Thermometer/IR Gun:	el □Nor s) <u>(/~(3</u> (/	ne CF: <u>0</u>	_
Adequate headspace for micr	biology analysis.				
Section 3c: Air Samples			amples sub	mitted (s	skip 3
1.4L Canisters GL Canis		Sorbent Tubes	Other YES	NO	
Section 4: Containers / Labels /			YES	NO	N/.
1) Were custody papers present					
2) Is the sampler's name present		and a second			
the second s	od condition (unbroken / unopened / uncom		-		1
	uired for microbiology samples; recommend	led for soil samples)	/		1000
5) Were all of, and only, the corr					
	ble, and in agreement with the CoC?		1		
7) Does the container count mat			/		
	mass received for the analyses requested?		-		-
	er containers for the analyses requested?		-		
10) Were samples received with11) Are samples properly preserved					
	If necessary, was the hold time changed in Ll	N/C2	/		
13) Are VOA vials free from head		10131	-		-
Section 5: Explanations / Comm (If no comments are made, then no discre	nts				
No additional discrepancies					
Date Logged 3/7/25	By (print)GCK	_ (sign)			
Date Labeled 3/7/25	By (print) Orange	(sign)			



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Analysis Results for 528274

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 528274 Location: EA-DZUS Date Received: 03/07/25

Sample ID: EA-DZUS EFF 13-030625	5			ID: 52 rix: W	8274-00 ater	01		Collected:	03/06/25 07:4	4
528274-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	1.5		ug/L	1.0	0.095	1	365402	03/10/25	03/10/25	KAM
Sample ID:			L	ab ID:	528274	-002		Collected:	03/06/25 07:	44
EA-DZUS EFF 13-030625	5 (F)		N	latrix:	Filtrate	•				
528274-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAna	alysis									
Cadmium	1.3		ug/L	1.0	0.39	1	365250	03/07/25	03/08/25	KAM
Sample ID:			Lab	DID: 5	28274-0	03		Collected:	03/06/25 10:3	5
EA-DZUS INFL 13-03062	5		Mat	trix: V	/ater					
528274-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	220		ug/L	10	0.95	10	365402	03/10/25	03/11/25	KAM
Sample ID:					52827			Collected:	03/06/25 10	:35
EA-DZUS INFL 13-03062	5 (F)		I	Matrix:	Filtrat	е				
528274-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: 200.8 DirectAn	alysis									



Batch QC

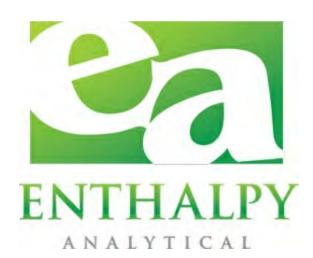
Туре:	Matrix Sp	ike		Lab ID:	QC1237311		Bato	h: 365	402	
Matrix (Source ID):	Water (52	8340-003)) N	lethod:	EPA 6020		Prep Metho	d: EPA	A 3015A	
OC1227211 Analyta	Po		Source Sample Result	Spiked	Units	Poor	overy Qual		mits	DF
QC1237311 Analyte	-	5.6	ND	100.0	ug/L		overy Qual		-125	1
Gaumium		55.0	ND	100.0	uy/L		100 /0	75	-125	
Туре:	Matrix Spi	ke Duplic	ate	Lab ID:	: QC123731	12	Bat	ch: 36	5402	
Matrix (Source ID):	-	-			EPA 6020		Prep Metho			
. ,		,								
		Source Sample							RPD	
QC1237312 Analyte	Result	Result		Units	Recover		Limits	RPD	Lim	DF
Cadmium	105.1	ND	100.0	ug/L	1059	%	75-125	0	21	1
_										
Type:	•				QC1237313			h: 365		
Matrix (Source ID):	Water (52	8239-002)	N N	Nethod:	EPA 6020		Prep Metho	d: EPA	A 3015A	
QC1237313 Analyte Cadmium	-	sult)9.3	Source Sample Result ND	Spiked 100.0	Units ug/L		overy Qual		mits -125	DF
Туре:	Matrix Spi	•	ate	Lab ID	: QC123731	14	Bat	ch: 36	5402	
Matrix (Source ID):	Water (528	8239-002)		Method	EPA 6020		Prep Metho	od: EP	A 3015A	
QC1237314 Analyte	Result	Source Sample Result		Units	Recover	v Qual	Limits	RPD	RPD Lim	DF
Cadmium	110.4	ND	-	ug/L	1109	-	75-125	1	21	1
				0						
Type: Blank		Lab ID:	QC123731	5			Batch: 36	5402		
Matrix: Water		Method:	EPA 6020			Prep	Method: EF	PA 3015	Α	
QC1237315 Analyte		Result	Qual	Units	RL	MDL	Prepared		Analyzed	
Cadmium		ND		ug/L	1.0	0.095	03/10/25		03/10/25)
Type: Lab Control Matrix: Water	Sample			: QC123 : EPA 60		Pi	Batch: rep Method:	36540 EPA 3		
QC1237316 Analyte Cadmium		Res 108		Spiked 100.0	Units ug/L	Re	ecovery C	Qual	Limit: 80-12	



Batch QC

Тур	e: Serial Dilutior	ı	La	b ID:	QC1237337	7	Batch:	365402	
Matrix (Source II	D): Water (528274	1-003)	Met	thod:	EPA 6020		Prep Method:	EPA 3015A	
QC1237337 Analyte		Result	S	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Cadmium		229.0		223.3	ug/L				50
Type: Blank	Lah ID:	QC12366	60			Batch: 36	5250		
Matrix: Filtrate		EPA 6020					0.8 DirectAna	lvsis	
	motriour								
QC1236669 Analyte	Re	esult Qu	al l	Units	RL	MDL	Prepared	Analyze	ed (
Cadmium		ND		ug/L	1.0	0.39	03/07/25	03/07/2	5
Type: Lab Contro	ol Sample	Lab ID:			_		n: 365250		
Matrix: Filtrate		Method:	EPA 6	020	Pre	ep Method	l: 200.8 Direc	tAnalysis	
QC1236670 Analyte		Result	Spi	ked	Units	Re	covery Qua	al Limi	its
Cadmium		102.6	-	0.0	ug/L		103%	80-1	20
Туре:	Matrix Spike		Lab ID:	QC12	236671	Ba	atch: 365250		
Matrix (Source ID):	Filtrate (528216-	012) I	Method:	EPA	6020	Prep Met	hod: 200.8 Di	rectAnalysis	3
QC1236671 Analyte	Result	Sourc Samp Resu	le	Spiked	Units	Reco	very Qual	Limits	DF
Cadmium	96.10			100.0	ug/L		96%	75-125	5
					- 31				
Туре:	Matrix Spike Dup	licate	Lab ID): QC	1236672	В	atch: 365250		
Matrix (Source ID):	Filtrate (528216-0)12)	Method	I: EP/	A 6020	Prep Me	thod: 200.8 D) irectAnalysi	S
QC1236672 Analyte	Sa	ource ample Result S	piked	Units	Recove	ry Qual	Limits	RPD RPD Lim	DF
Cadmium	102.8	ND		ug/L	103		75-125	7 21	5
				0					
Type:	Serial Dilution		Lab ID:	QC12	236676	Ba	atch: 365250		
Matrix (Source ID):	Filtrate (528274-	004) I	Method:	EPA	6020	Prep Met	hod: 200.8 Di	rectAnalysis	\$
				Source					
				Sample				RPD	
				•					
QC1236676 Analyte Cadmium		Result 195.5		Result 208.9	Units	Qual	RPD	Lim	DF 50

ND Not Detected



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

enthalpy.com

Lab Job Number	:	528632
Report Level	:	II
Report Date	:	03/20/2025

Analytical Report prepared for:

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Location: EA-DZUS

Authorized for release by:

Miguel Gamboa, Project Manager miguel.gamboa@enthalpy.com

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

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



Sample Summary

Cindy Schreier	Lab Job #:	528632
Prima Environmental, Inc.	Location:	EA-DZUS
5070 Robert J. Mathews	Date Received:	03/13/25
Pkwy		
Suite 300		
El Dorado Hills, CA 95762		

Sample ID	Lab ID	Collected	Matrix
EA-DZUS CA COLA	528632-001	03/11/25 09:00	Soil
EA-DZUS CA COLB	528632-002	03/11/25 09:00	Soil
EA-DZUS CA COLC	528632-003	03/11/25 09:00	Soil



Case Narrative

Lab Job Number: 528632 Location: EA-DZUS Date Received: 03/13/25

Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762 Cindy Schreier

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 03/13/25. The samples were received cold and intact.

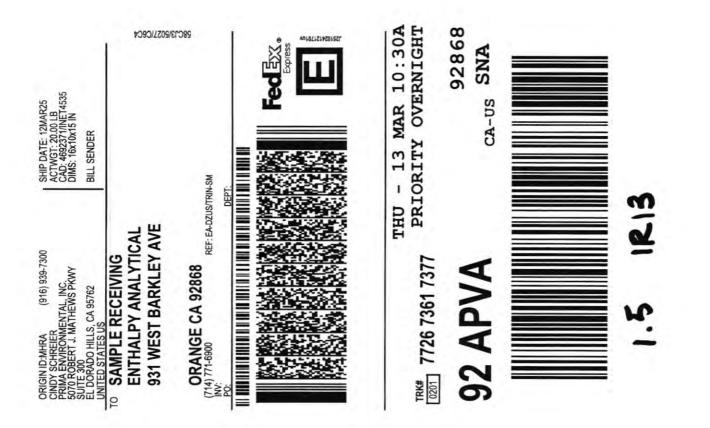
Metals (EPA 6010B):

- High RPD was observed for phosphorus in the MS/MSD of EA-DZUS CA COL. -A (lab # 528632-001).
- No other analytical problems were encountered.

Entha 931 Wes	Enthalpy Analytical LLC 931 West Barkley Ave		CHAIN OF CUSTODY	AIA	0	ш	2	S	2	Ó	>		Chi	o uie	Page _ Chain of Custody #			
Orange, (714) 77	Orange, CA 92868 (714) 771-6900 Phone										+				Analytical Request	Request		
			C&TL	LOGIN#	#			12										
Project No:	lo:		Sampler:		Cindy Schreier	Schre	er											
Project Name:	Jame: EA-DZUS		Report To:		Cindy Schreier	Schre	er							_				
EDD Format:		Rpt Level: 0 II 0 III 0 IV Company : PRIMA Environmental, Inc.	V Comp	any :	PRIMA	Envii	onme	ental	Inc.									
Turnarou	Turnaround Time: DRUSH 🔤 🛛	☑ Standard	Telepl	:enor	Telephone: 916-939-7300	9-730	0				-	(əte)					_	
			Email:	<u>data(</u>	Email: data@primaenvironmental.com	envir	onme	intal.	COM			Nitre	(u)		024			
4		Sampling	bu	Matrix	rix	4	Chemical Preservative	Chemical reservativ	al		(09	,əfaflu	И , 5 Я ,					
No.	Sample ID.	Date	Time	Water Soil	ło #	Containers HCI	[⊅] OS ^z H	RaoH 80NH	anoN		VOCs (82 Alkalinty	s) snoins	D) alsteM	Phosphore	muimbeO			
	EA-DZUS CA col A	03/11/25	9:00	×		1		-	×					-				
	EA-DZUS CA col B	03/11/25	9:00	×		-			×					×				
	EA-DZUS CA col C	03/11/25	9:00	×		-			×	-	\square			×				
						-					-							
						-												
								++									_	- - -
								+							Login 528632	332		1 1
											+	+	間	ves -			F	
Notes:		SAMPLE RECEIPT	CEIPT	RELI		HED	BY:	-			-	RE	RECEIVED BY:	100	BY:			
		D Intact Cold	d bient	Hau	Alarier Hickinger	Jelen	ter	PRINA	t	3/12/2025 DATE/TIME	1 202		@ 15:00	5:0	e Fed Ex	1. A	D/	DATE/TIME
		1.5 12.3								DATE/TIME	TIME	(H	3	ENTHALPY		5)15/25 D/	10:29 DATE/TIME
										DATE/TIME	TIME						D/	DATE/TIME

528632

Date Received: 03 13 25 W0# 628/052 Client: PRIMA Section 2: Shipping / Custody Are custody seals present? Yes N Custody seals intact on arrival? M/A Yes No Courier Walk-In Field Sampling Section 3a: Condition / Packaging Date Opened <u>05 15 25</u> By (initials) Are: Yes Westing a control of the field; cooling process had begun. (if checked, skip temperatures) Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): J. #4: J. #4: J. #4: J. #4: J. #4: J. #6: J. No microbiology samples submitted (skip 3b) Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3: Air Samples Mo microbiology samples submitted (skip 3c) I.14. Consters I.24. Containers / Labels / Samples Visit on air samples submitted (skip 3c) Were containers / Labels / Samples Visit on air samples submitted (skip 3c) I.32. No air samples submitted (skip 3c) I.32. No N/A I.34. Containers / Labels / Samples J. No N/A I.34. Containers / Labels / Samples J. No N/A I.34. Containers / Labels / Samples J. No N/A I.34. Containers received in good condition (unbroken / unopened / uncompromised)? J.34. Sample is name present on the CoC? J.34. Sample is name present, filled properly, and legible? J.35. Section 42. Outmainer / Labels / Samples received? J.35. Were samples is name present, for microbiology samples; recommended for soil samples) J.34. Sample is name present on the CoC? J.35. Were samples received in good condition (unbroken / unopened / uncompromised)?	SAMPLE RECEIPT CHECKLIST		1	
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Custody seals intact on arrival? INA IVES ON ONCOLOR / box ON samples Currier Valk-In Field Sampling Ishgipping Info: <u>FCPEX</u> Section 3a: Condition / Packaging Outside 0.0-6.0°C (0.0-10.0°C for microbiology) (PM notified) Date Opened <u>03/13/25</u> By (initials) <u>VC</u> Type of ice used: Wet Blue/Gel None Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures) If no cooler: Observed/Adjusted Temp (*C): // Thermometer/IR Gun: <u>VP13</u> _ CF: ±0.0 Cooler Temp (*C) #1: <u>1-5</u> / <u>42</u> : <u>#3</u> : <u>#4</u> : <u>#5</u> : <u>#6</u> : <u>7</u> = <u>7000</u> Cooler Temp (*C): <u>7000</u> Thermometer/IR Gun: <u>VP13</u> _ CF: ±0.0 Cooler Temp (*C) #1: <u>1-5</u> / <u>755</u> #2: <u>7700</u> #3: <u>7700</u> #4: <u>7700</u> Momicrobiology samples submitted (skip 3b) Within temp range 0.0 - 10.0°C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3c: Air Samples <u>NO0 air samples submitted (skip 3c)</u> 14. Canisters <u>6</u> 6L Canisters <u>Tedlar Bags</u> <u>MCE Cassettes</u> <u>Sorbent Tubes</u> <u>Other</u> Section 4: Containers / Labels / Samples US NO N/A 1) Were custody papers present, filled properly, and legible? 3) Is the sampler's name present on the CoC? 3) Were containers received in good condition (unbroken / unopened / uncompromised)? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? 5) Were samples received in an agreement with the CoC? 7) Does the container count match the CoC? 8) Was sufficient sample volume / mass received of the analyses requested? 9) Were samples received in proper containers for the analyses requested? 10) Were samples properly preserved as indicated by CoC / labels? 11) Are samples properly preserved as indicated by CoC / labels? 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 3: Explanations / Comments (for comments are made, then no discrepances noted.)				1.
□ Courier □ Walk-in □ Field Sampling		is present	t? 🗆 Yes	ANG
Section 3a: Condition / Packaging □ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified) Date Opened <u>03</u> <u>113</u> <u>125</u> By (initials) <u>14C</u> Type of ice used: <u>1</u> Wet <u>Blue/Gel</u> <u>None</u> □ Samples received on ice directly from the field; cooling process had begun. (if checkéd, skip temperatures) In the sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) □ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) Thermometer/IR Gun: <u>1413</u> <u>75</u> <u>75</u> <u>42</u> . □ Cooler Temp (*C) <u>141</u> <u>115</u> <u>7</u> <u>75</u> <u>42</u> ; <u>743</u> <u>43</u> <u>44</u> ; <u>445</u> <u>445</u> <u>455</u> <u>455</u> <u>455</u> <u>455</u> <u>455</u>	그는 그녀는 것 같은 물건을 다 지는 것이 같이 많이 있는 것이 같이 다 나는 것이 없는 것이 같이 다 가지 않는 것 같은 것을 하는 것이 같이 많이 많이 많이 다. 것이 같이 많이 많이 많이 많이 나는 것이 없는 것이 없는 것이 없다. 것이 같이 많이 많이 많이 많이 많이 많이 많이 많이 많이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 같이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 않는 것이 없는 것이 않는 것이 않는 것이 않는 것이 않는 것이 않는 것 않이 않는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 않는 것이 않는 것이 않는 것이 않는 것이 않는 것이 없는 것이 않는 것이 않이 않이 않 않이 않			
Date Opened 03/13/25 By (initials)		robiolog	v) (PM no	otified)
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Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures) IP13	τ –			
If no cooler: Observed/Adjusted Temp (*C):/ Thermometer/IR Gun:/P13CF: ±0.0 Cooler Temp (*C) #1: <u>1.5</u> / <u>1.5</u> #2:#3:#4:#5:#6: Section 3b: Microbiology Samples/No microbiology samples submitted (skip 3b) Within temp range 0.0 - 10.0*C or received on ice directly from field. Adequate headspace for microbiology analysis. Section 3:: Air Samples/No air samples submitted (skip 3c) [1.4.4 Canisters6L CanistersTedlar BagsMCE CassettesSorbent Tubes Section 4: Containers / Labels / Samples YESNO N/A 1) Were custody papers present, filled properly, and legible? 2) Is the sampler's name present on the CoC? 3) Were containers received in good condition (unbroken / unopened / uncompromised)? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) 5) Were all of, and only, the correct samples received? 6) Are sample labels present, legible, and in agreement with the CoC? 7) Does the container count match the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? 9) Were samples preceived with > 1/2 holding time remaining? 11) Are samples properly preserved as indicated by CoC / labels? 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? 13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments (fin ocomments are made, then no discrepancies noted.)				
Cooler Temp (*C) #1: 1.5 / 1.	이 가슴 가지 않는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 이 너희 것 이 없는 것 같아요. 이 이렇게 가슴 것을 가지 않는 것 같아요. 이렇게 가슴	13 (CF: ±0.0)
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Adequate headspace for microbiology analysis. Section 3c: Air Samples [] 1.4L Canisters GL Canisters [] 1.4L Canisters GL Canisters [] 1.4L Canisters GL Canisters [] Adequate headspace for microbiology analysis. Other Section 3c: Air Samples Others [] 1.4L Canisters GL Canisters Section 4: Containers / Labels / Samples YES 1) Were custody papers present, filled properly, and legible? Image: Containers / Containers received in good condition (unbroken / unopened / uncompromised)? Image: Containers received in good condition (unbroken / unopened / uncompromised)? 3) Were the samples bagged? (required for microbiology samples; recommended for soil samples) Image: Container Container Container samples received? 6) Are sample labels present, legible, and in agreement with the CoC? Image: Container Container Cont match the CoC? Image: Container Container Containers for the analyses requested? 9) Were samples received with > 1/2 holding time remaining? Image: Container Container Containers for the analyses requested? Image: Container Container Container Container Container Container Container Container Containers for the changed in LIMS? Image: Container Containe		ples subr	nitted (s	kip 3b)
Section 3c: Air Samples No air samples submitted (skip 3c) [] 1.4L Canisters GL Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other Section 4: Containers / Labels / Samples YES NO N/A 1) Were custody papers present, filled properly, and legible? Image: Sorbent Tubes YES NO N/A 2) Is the sampler's name present on the CoC? Image: Sorbent Tubes YES NO N/A 3) Were containers received in good condition (unbroken / unopened / uncompromised)? Image: Sorbent Tubes Image: Sorbent	□ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
1.4L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other	Adequate headspace for microbiology analysis.			
Section 4: Containers / Labels / Samples YES NO N/A 1) Were custody papers present, filled properly, and legible? Image: Containers present on the CoC? Image: Containers present present of the Coc? Image: Containers present pr	Section 3c: Air Samples	nples sub	mitted (s	kip 3c)
1) Were custody papers present, filled properly, and legible? Image: Comparison of the CoC? 2) Is the sampler's name present on the CoC? Image: Comparison of the CoC? 3) Were containers received in good condition (unbroken / unopened / uncompromised)? Image: Comparison of the CoC? 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) Image: Comparison of the CoC? 5) Were all of, and only, the correct samples received? Image: Comparison of the CoC? 6) Are sample labels present, legible, and in agreement with the CoC? Image: Comparison of the CoC? 7) Does the container count match the CoC? Image: Comparison of the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? Image: Comparison of the CoC? 9) Were samples received in proper containers for the analyses requested? Image: Comparison of the CoC? 10) Were samples received with > 1/2 holding time remaining? Image: Comparison of Comparison of Comparison of the CoC? 11) Are samples properly preserved as indicated by CoC / labels? Image: Comparison of Comments Image: Comparison of Comments 13) Are VOA vials free from headspace/bubbles > 6mm? Image: Comparison of Comments Image: Comparison of Comments Section 5: Explanations / Comments	□ 1.4L Canisters □ 6L Canisters □ Tedlar Bags □ MCE Cassettes □ Sorbent Tubes □ O	ther		_
2) Is the sampler's name present on the CoC? Image: Section 5: Explanations / Comments 3) Were containers received in good condition (unbroken / unopened / uncompromised)? Image: Section 5: Explanations / Comments 3) Were containers received in good condition (unbroken / unopened / uncompromised)? Image: Section 5: Explanations / Comments 3) Were containers received in good condition (unbroken / unopened / uncompromised)? Image: Section 5: Explanations / Comments 4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) Image: Section 5: Explanations / Comments 5) Were samples are made, then no discrepancies noted.) Image: Section 5: Explanations / Comments	Section 4: Containers / Labels / Samples	YES	NO	N/A
3) Were containers received in good condition (unbroken / uncompromised)? Image: Container State S	1) Were custody papers present, filled properly, and legible?			
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples) Image: Comments are made, then no discrepancies noted.) 5) Were all of, and only, the correct samples received? Image: Comments are made, then no discrepancies noted.) 6) Are sample labels present, legible, and in agreement with the CoC? Image: Comments are made, then no discrepancies noted.) 6) Are sample labels present, legible, and in agreement with the CoC? Image: Comments are made, then no discrepancies noted.) 7) Does the container count match the CoC? Image: Comments are made, then no discrepancies noted.) 8) Was sufficient sample volume / mass received for the analyses requested? Image: Comments are made, then no discrepancies noted.) 9) Were samples received in proper containers for the analyses requested? Image: Comments are made, then no discrepancies noted.)	2) Is the sampler's name present on the CoC?			
5) Were all of, and only, the correct samples received? Image: Constant of the correct samples received? 6) Are sample labels present, legible, and in agreement with the CoC? Image: Constant of the correct sample container count match the CoC? 7) Does the container count match the CoC? Image: Constant of the correct sample container count match the CoC? Image: Constant of the correct sample container count match the CoC? 8) Was sufficient sample volume / mass received for the analyses requested? Image: Constant of the constent of the constant of the constant of the co	3) Were containers received in good condition (unbroken / unopened / uncompromised)?			1
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8) Was sufficient sample volume / mass received for the analyses requested? Image: Section 5: Explanations / Comments 8) Was sufficient sample volume / mass received for the analyses requested? Image: Section 5: Explanations / Comments 9) Were samples received with > 1/2 holding time remaining? Image: Section 5: Explanations / Comments 10) Were samples received - If necessary, was the hold time changed in LIMS? Image: Section 5: Explanations / Comments	6) Are sample labels present, legible, and in agreement with the CoC?		1	1
9) Were samples received in proper containers for the analyses requested? Image: Control of the analyses requested? 10) Were samples received with > 1/2 holding time remaining? Image: Control of the analyses requested? 11) Are samples properly preserved as indicated by CoC / labels? Image: Control of the analyses requested? 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? Image: Control of the analyses requested? 13) Are VOA vials free from headspace/bubbles > 6mm? Image: Control of the analyses received. Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)	7) Does the container count match the CoC?			
10) Were samples received with > 1/2 holding time remaining? Image: Constraint of the samples properly preserved as indicated by CoC / labels? 11) Are samples properly preserved as indicated by CoC / labels? Image: Constraint of the samples properly preserved - If necessary, was the hold time changed in LIMS? 12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS? Image: Constraint of the samples properly preserved by the samples preserved by t	8) Was sufficient sample volume / mass received for the analyses requested?			
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13) Are VOA vials free from headspace/bubbles > 6mm? Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)	11) Are samples properly preserved as indicated by CoC / labels?			
Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)	12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			
(If no comments are made, then no discrepancies noted.)	13) Are VOA vials free from headspace/bubbles > 6mm?			
4.6: TIME ON COC 15 "9:00" BUT TIME ON CONTAINER LABEL 15 "12:00"	Section 5: Explanations / Comments (If no comments are made, then no discrepancies noted.)			
	4.6 TIME ON COC 15 "9:00" BUT TIME ON CONTAINER LABEL 15 "12	00		
	No additional discrepancies			
No additional discrepancies	Date Logged 03/12/25 By (print) EMERYVILLE (sign)			
□ No additional discrepancies Date Logged <u>03/12/25</u> By (print) EMERYVILLE (sign)	Date Labeled 03/13/25 By (print) JETH CO (sign)			_



After printing this label. CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH 1. Fold the printed page along the horizontal line. 2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Analysis Results for 528632

Cindy Schreier Prima Environmental, Inc. 5070 Robert J. Mathews Pkwy Suite 300 El Dorado Hills, CA 95762

Lab Job #: 528632 Location: EA-DZUS Date Received: 03/13/25

Sample ID: EA-DZ	US CA C	OLA			ID: 52 rix: Sc		01	Collected:	03/11/25 09	9:00
528632-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6010B Prep Method: EPA 3050B										
Phosphorus	1,700		mg/Kg	190	22	0.95	365991	03/14/25	03/14/25	CAP
Sample ID: EA-DZ	US CA C	OLB			ID: 52		02	Collected:	03/11/25 09	9:00
				Mat	rix: So	bil				
528632-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6010B Prep Method: EPA 3050B										
Phosphorus	1,600		mg/Kg	200	23	0.99	365991	03/14/25	03/15/25	CAP
Sample ID: EA-DZ	US CA C	OLC		Lab		8632-0	03	Collected:	03/11/25 0	9:00
				Mat	rix: So	bil				
528632-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemis
Method: EPA 6010B Prep Method: EPA 3050B										
			mg/Kg	200	23	0.98	365991	03/14/25	03/15/25	CAP



Batch QC

Type: Blank	Lab ID:	QC12391	167		E	Batch:	3659	91	
Matrix: Soil	Method:	EPA 601	0B		Prep Me	thod:	EPA	3050B	
						_		_	
QC1239167 Analyte Phosphorus	Result ND	Qual	Units	RL 200	MDL 23	Prepar 03/14/2			14/25
Phosphorus	ND		mg/Kg	200	23	03/14/2	20	03/	14/20
Type: Lab Control	Sample	Lab	ID: QC12	39168		Bat	ch 3	65991	
Matrix: Soil	Cumpio		d: EPA		Pre			EPA 3050	в
QC1239168 Analyte	Res	ult	Spiked	Units	Rec	overy	Qua	al	Limits
Phosphorus	10	9.3	125.0	mg/Kg		87%	NN	1	80-120
Туре	•		Lab ID:	QC1239169				365991	
Matrix (Source ID)	: Soil (528632-001)		Method:	EPA 6010B	Pr	ep Met	hod:	EPA 30	50B
		0							
		Source Sample							
QC1239169 Analyte	Result	Result	Spiked	Units	Recover	-		Limits	D
Phosphorus	1,820	1734	119.0	mg/Kg	729	% NI	М	75-125	0.9
Туре:	Matrix Spike Dupli	cate		D: QC1239170				: 365991	
Matrix (Source ID):	Soil (528632-001)		Metho	d: EPA 6010B	P	Prep Me	ethod:	EPA 30)50B
	0								
	Source Sample							RPI	C
QC1239170 Analyte	Result Result		d Units	Recovery	Qual	Limits	F	RPD Lin	
Phosphorus	2,756 1734	119.0) mg/Kg	858%	NM	75-125		41* 20	0.9
Туре	• •	•	Lab ID:		_			365991	
Matrix (Source ID)	: Soil (528632-001)		Method:	EPA 6010B	Pr	rep Met	hod:	EPA 30	50B
		Source							
		Source							
QC1239171 Analyte	Result	Result	Spiked	Units	Recover			Limits	D
Phosphorus	1,709	1734	119.0	mg/Kg	-219	% NI	М	75-125	0.9
	: Serial Dilution			QC1239203				365991	
	: Serial Dilution : Soil (528632-001)			QC1239203 EPA 6010B	Pr			365991 EPA 30	50B
			Method:	EPA 6010B	Pr				50B
				EPA 6010B	Pr				50B
	: Soil (528632-001) Re	sult	Method: Source	EPA 6010B Units	Pr Qual	ep Met		EPA 30	50B D 4.

* Value is outside QC limits

ND Not Detected

NM Not Meaningful

CONSTANT HEAD PERMEABILITY TEST REPORT

Sample ID.	Permeability (cm/sec)
EA - DZUS Soil	6.82E-03

Test Method: ASTM D2434

SAMPLE IDENTIFICATION: EA - DZUS Soil SAMPLE DATE: 3/6/2025

LAB NUMBER: 95835



EA - DZUS

PERMEABILITY TEST REPORT						
6 - 1 - 1 - 1	Down on hility (on /roo)					
Somple ID	Permeability (cm/sec)					
Sample ID.						
Sample ID. EA - DZUS Soil +3% Ap	4.07E-03					
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
EA - DZUS Soil +3% Ap						
DZUS Soil +3% Ap						

SAMPLE IDENTIFICATION: EA - DZUS Soil +3% Ap SAMPLE DATE: 3/24/2025

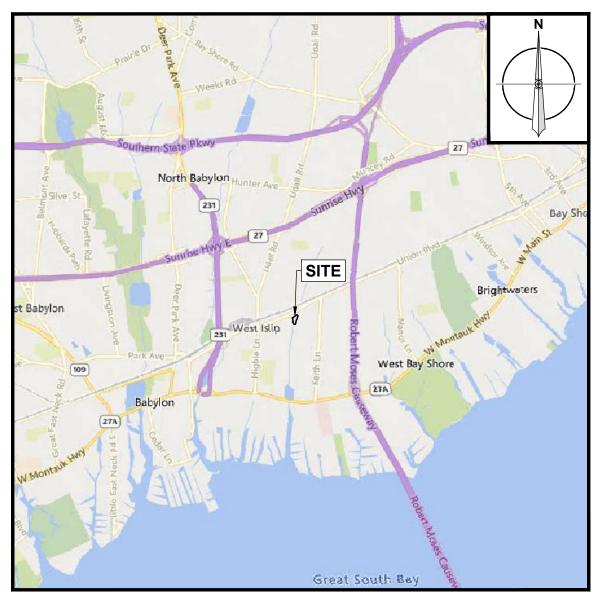
LAB NUMBER: 96014



EA	_	DZUS
Lin	-	DLUG

Appendix C Design Drawings This page intentionally left blank

FORMER DZUS FASTENER (NYSDEC SITE NO. 152033) INTERIM REMEDIAL MEASURE PERMEABLE REACTIVE BARRIER WEST ISLIP, NEW YORK



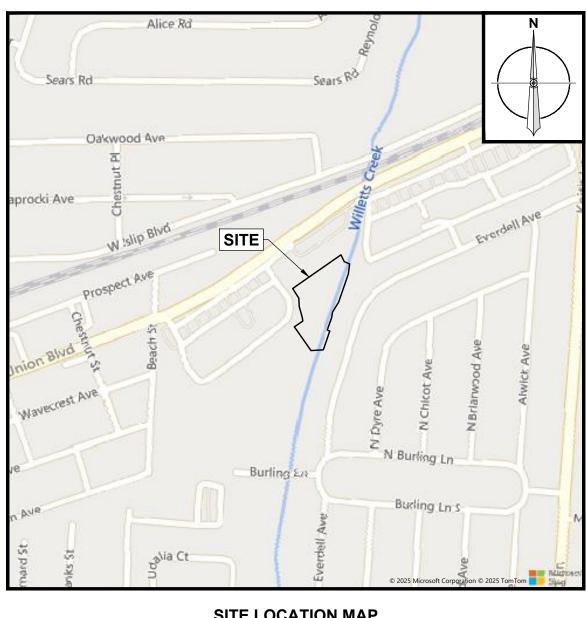
VICINITY MAP SCALE: 1" = 2,000'

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION 625 BROADWAY, 12TH FLOOR ALBANY, NEW YORK 12233

PREPARED BY: EA ENGINEERING AND GEOLOGY, P.C. 333 WEST WASHINGTON STREET

SUITE 300 SYRACUSE NEW YORK 13202



SCALE: 1" = 500'

		SHEET LIST
DRAWING NO.	SHEET NO.	DRAWING TITLE
G-001	1	TITLE SHEET
G-002	2	GENERAL NOTES AND LEGEND
C-101	3	EXISTING CONDITIONS PLAN
C-102	4	SITE DESIGN PLAN
C-201	5	CROSS-SECTION PLAN
L-101	6	RESTORATION PLANTING PLAN
C-501	7	DETAILS

	R				
EA Engineering and Geology, P.C.					
	ton Street, Suite 300				
Syracuse, N	Vew York 13202 431-4610				
NEW	Department of				
STATE	Environmental Conservation				
	HORIZONTAL DATUM: NAD83 NEW YORK STATE PLANES, LONG ISLAND,				
	US FOOT				
	NAVD88				
SCALE	AS SHOWN				
FULL SIZE PLOT: 22" x 34"					
REVISIONS					
SEAL					
SHE IS ACTING UNDER THE DIR	OR ANY PERSON, UNLESS HE OR				
DOCUMENT IN ANY WAY. IF ALT OR LAND SURVEYOR SHALL CO	RED, THE ALTERING ENGINEER MPLY WITH THE REQUIREMENTS /, ARTICLE 145, SECTION 7209.2.				
FORMER DZU: (NYSDEC SITE I					
INTERIM REME	DIAL MEASURE				
PROJECT ADDRESS					
460 UNION BL WEST ISLIP, N					
, , ,					
DRAWING TITLE					
TITLE SHEET					
DRAWING INFORMATION					
DRAWN BY: JAP	DESIGNED BY: TR				
CHECKED BY: DFC	PROJECT MANAGER: HW				
DRAWING NO.					
G-001					
DATE: MAY 2025	SHEET: 1 OF 7				

35% PLANS - NOT FOR CONSTRUCTION

PROJECT INFORMATION

SITE LOCATION:

460 UNION BLVD, WEST ISLIP, NY 11795

TAX MAP: 0500 (DISTRICT), 45500 (SECTION), 0300 (BLOCK), 001006 (LOT) TAX ID # 0500-455.00-03.00-001.006

CLIENT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION 625 BROADWAY, 12TH FLOOR ALBANY, NEW YORK 12233

ENGINEER:

EA ENGINEERING AND GEOLOGY, P.C. 333 WEST WASHINGTON STREET SUITE 300 SYRACUSE NEW YORK 13202

DATUM:

HORIZONTAL: NAD83 NEW YORK STATE PLANES, LONG ISLAND, US FOOT VERTICAL: NAVD88

SITE DATA

- TOPOGRAPHY AND EXISTING CONDITIONS ARE BASED ON AS-BUILT SURVEY DATA (DATED JUNE 2020) AND GIS DATA FROM NOAA NATIONAL GEODETIC SURVEY OPEN DATA (DATED 2014 POST SANDY).
- PROPERTY LINES ARE BASED ON GIS DATA GATHERED FROM OPEN DATA NEW YORK STATE GEOGRAPHIC INFORMATION SYSTEMS (GIS) CLEARINGHOUSE (DATED 2024)
- STREAM, WETLANDS, AND VEGETATION DELINEATION PERFORMED BY EA
- ENGINEERING AND GEOLOGY PC... (12 AUGUST 2024) SOILS DATA ARE BASED ON THE USDA WEB SOIL SURVEY, ACCESSED FEBRUARY 2025.

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND/OR REPAIRING IN PLACE ALL UTILITY STRUCTURES (BOTH BELOW AND ABOVE GROUND), PIPING, AND APPURTENANCES THAT ARE TO REMAIN IN PLACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING AND PREVENTING DUST, SEDIMENT, AND SOIL FROM IMPACTING ROADS DUE TO VEHICLES ARRIVING AND LEAVING THE JOB SITE AS PART OF THIS WORK.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE SUCH WORK WITHOUT ADDITIONAL COMPENSATION.
- EXISTING UTILITIES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO UNDERGROUND, SURFACE, OR OVERHEAD ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UNDERGROUND UTILITIES. POWER, TELEPHONE, FIBER OPTIC CABLE, DUCT WAYS, SPRINKLER SYSTEMS, SEPTIC SYSTEMS, AND WATER, GAS, AND SEWER SERVICE LINES MAY NOT BE INDICATED ON THESE DRAWINGS, OTHER UTILITIES AND STRUCTURES MAY BE PRESENT. UNDERGROUND LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES, AS FURNISHED BY THE OWNER OF EACH UTILITY OR STRUCTURE, ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN IN PROFILE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR, CONSTRUCT, AND MAINTAIN THE SITE SECURITY FENCING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, JOB SAFETY SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE 6 INCHES OF TOPSOIL IN THE UPLAND AND WETLAND AREAS ON SITE AT THE LOCATION SHOWN ON SHEET C-102. STOCKPILE MATERIALS SHOULD BE KEPT SEPARATE TO PREVENT INTERMIXING OF TOPSOIL TYPES. SURFACE WATER SHALL BE DIRECTED AWAY FROM THE STOCKPILE SITE TO PREVENT EROSION OR DETERIORATION OF STOCKPILED MATERIAL. AFTER STOCKPILE REMOVAL THE AREA SHALL BE LEFT IN A CLEAN AND NEAT CONDITION AND THE SURFACE GRADED TO PREVENT FREE STANDING WATER. EXAMPLE STOCKPILE DETAIL IS PROVIDED ON SHEET C-501 BUT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS.
- RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED, OR REMOVED BY CONSTRUCTION TO THEIR ORIGINAL LOCATION AND CONDITION.
- THE CONTRACTOR SHALL VERIFY ALL REQUIRED PERMITS HAVE BEEN OBTAINED BEFORE PROCEEDING WITH CONSTRUCTION. AN APPROVED SET OF PERMIT PLANS AND PERMITS MUST BE MADE AVAILABLE AT THE SITE THROUGHOUT WORK.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING WORK AREAS SECURE AT ALL TIMES.
- THE CONTRACTOR SHALL PROTECT ALL TREES AS MUCH AS PRACTICABLE. CLEARING AND TREE REMOVAL SHALL BE APPROVED BY THE ENGINEER AND THE DEPARMENT.
- 12. EXCESS MATERIAL THAT REMAINS UNUSED FOLLOWING CONSTRUCTION ACTIVITIES WILL BE THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE.
- 13. BEFORE FINAL COMPLETION OF THIS WORK, ALL ROADWAYS, FENCES, AND SIGNAGE SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION. VARIANCES SHALL BE SUBMITTED TO THE ENGINEER AND DEPARTMENT FOR APPROVAL.
- CONSTRUCTION ACTIVITIES SHALL NOT PRODUCE NOISE THAT WILL RESULT IN EXCESS OF 60 DBA AS MEASURED BY A TYPE 2 SOUND LEVEL METER AT OCCUPIED BUSINESSES, SCHOOLS, OR RESIDENCES THAT ARE CLOSEST TO THE SOURCE OF THE NOISE. IN ACCORDANCE WITH CHAPTER 35 OF THE "CODE OF THE TOWN OF ISLIP" THE MAXIMUM PERMISSIBLE A-WEIGHTED SOUND PRESSURES RECEIVED BY RESIDENTIAL PROPERTIES BETWEEN THE HOURS OF 7:00 AM AND 10:00 PM IS 55 DBA; FROM 10:00 PM TO 7:00 AM RECEIVED SOUND PRESSURES MUST NOT EXCEED 50 DBA. NOISE ABATEMENT AND/OR NO WORK PERIODS SHALL BE REQUIRED OF THE CONTRACTOR.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING A COMMUNITY AIR MONITORING PLAN (CAMP); ENSURING AND DOCUMENTING THAT FUGITIVE DUST DOES NOT IMPACT AREAS OUTSIDE THE WORK AREA
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING LOADING DOCK AREA 16 BEHIND STOP N' SHOP (AS SHOWN ON SHEET C-102) ACCESSIBLE TO TRAFFIC / DELIVERIES.

IMPORTED MATERIAL NOTES

- CONTRACTOR SHALL SUBMIT LIST OF FILL MATERIALS. SEED MIX DATA. AGGREGATES, FERTIZILER, MULCH, SOIL AMENDMENTS AND OTHER ACCESSORIES TO THE ENGINEER FOR REVIEW AND APPROVAL INCLUDING THE NAME OF SUPPLIERS AND MATERIALS TESTING.
- 2. THE CONTRACTOR SHALL PERFORM GEOTECHNICAL TESTING AND ANALYTICAL TESTING ON IMPORTED MATERIAL. A MINIMUM OF ONE GRAIN SIZE (ASTM D6913/D6913M) AND ONE SOIL CLASSIFICATION (ASTM D2487) SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF EACH TOPSOIL MATERIAL
- 3. ALL IMPORTED MATERIALS SHALL BE CERTIFIED CLEAN IN ACCORDANCE WITH NYSDEC DER-10 5.4(E) BY BORROW SOURCE PROVIDER.
- WETLAND TOPSOIL
 - a. WETLAND TOPSOIL SHALL BE ANALYZED TO ACERTAIN PERCENTAGE OF NITROGEN, PHOSPHORUS, POTASH, SOLUBLE SALT, ORGANIC MATTER, AND PH VALUE. ONE TEST PER SOURCE OF TOPSOIL IS REQUIRED FOR ENGINEERING REVIEW AND APPROVAL PRIOR TO DELIVERY TO THE SITE.
 - b. WETLAND TOPSOIL IMPORTED TO THE SITE MUST BE ORIGINAL LOAM TOPSOIL, WELL DRAINED, HOMOGENEOUS TEXTURE AND UNIFORM GRADE WITHOUT ADMIXTURE OF SUBSOIL MATERIALS AND ENTIRELY FREE OF VEGETATIVE DEBRIS, HARDPAN, SOD, OR OBJECTIONAL FOREIGN MATERIAL. CONTAINING NOT LESS THAN 2% NOR MORE THAN 20% ORGANIC MATERIAL IN THE PORTION OF THE SAMPLE PASSING A 1/4-INCH SIEVE WHEN DETERMINED BY WET COMBUSTION METHOD ON A SAMPLED DRIED AT 105 DEGREES C.
 - c. CONTAINING A PH VALUE IN THE RANGE OF 4.5 TO 7 ON THE PORTION OF SAMPLE PASSING THE 1/4 INCH SIEVE
 - d. FREE OF ATRAZINE OR OTHER HERBICIDES
 - e. GRADIATION OF: 100% PASSING 1-INCH SIEVE, 97-100% PASSING 1/4-INCH SIEVE, AND 20-65% PASSING #200 SIEVE.

5. UPLAND TOPSOIL

- a. UPLAND TOPSOIL IMPORTED TO THE SITE MUST BE ORIGINAL LOAM TOPSOIL, WELL DRAINED, HOMOGENEOUS TEXTURE AND UNIFORM GRADE WITHOUT ADMIXTURE OF SUBSOIL MATERIALS AND ENTIRELY FREE OF VEGETATIVE DEBRIS, HARDPAN, SOD, OR OBJECTIONAL FOREIGN MATERIAL. CONTAINING NOT LESS THAN 2% NOR MORE THAN 20% ORGANIC MATERIAL IN THE PORTION OF THE SAMPLE PASSING A 1/4-INCH SIEVE WHEN DETERMINED BY WET COMBUSTION METHOD ON A SAMPLED DRIED AT 105 DEGREES C.
- b. CONTAINING A PH VALUE IN THE RANGE OF 4.5 TO 7 ON THE PORTION OF SAMPLE PASSING THE 1/4 INCH SIEVE
- c. FREE OF ATRAZINE OR OTHER HERBICIDES
- d. GRADIATION OF: 100% PASSING 1-INCH SIEVE, 97-100% PASSING 1/4-INCH SIEVE, AND 20-65% PASSING #200 SIEVE.
- RIP RAP SHALL BE MEDIUM STONE FILLING SHALL MEET NYSDOTSS ITEM 733-2103 REQUIREMENTS. MEDIUM STONE FILLING SHALL BE USED AS RIP RAP AT ALL STORM SEWER OUTLETS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER

UTILITIES

- CONFIRM LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE INCLUDING OVERHEAD, ABOVEGROUND, AND UNDERGROUND UTILITIES. CONSIDER THE LOCATION OF UTILITIES DEPICTED WITHIN THESE DRAWINGS APPROXIMATE.
- CONTRACTOR IS RESPONSIBLE FOR MANAGING STORMWATER INCLUDING DISCHARGE FROM STORMWATER OUTLET SHOWN ON SHEET C-101 WITHIN THE LIMIT OF DISTURBANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE STORMWATER OUTLET TO PRE-CONSTRUCTION CONDITION PRIOR TO DEMOBILIZATION.

SEQUENCE OF WORK

- BARRIER CONSTRUCTION WILL BE CONDUCTED IN TWO PHASES WITH PHASE 1 EXPECTED TO OCCUR IN 2025. PHASE 2 SCHEDULE HAS NOT BEEN DETERMINED. SEQUENCE OF WORK FOR EACH PHASE ARE DESCRIBED IN THE SUBSEQUENT NOTES IN THIS SECTION.
- PREPARATION AND APPROVAL OF REQUIRED PLANS AND SUBMITTALS
- CONTRACTOR MOBILIZATION
- LOCATE EXISTING UTILITIES
- INSTALL CONSTRUCTION ENTRANCE(S)
- INSTALL TEMPORARY FACILITIES AND EROSION AND SEDIMENT CONTROL 6.
- CLEAR EXISTING VEGETATION FROM WORK AREA
- STRIP AND STOCKPILE TOPSOIL 8. 9
 - INSTALL STORMWATER MITIGATION MEASURES
 - 9.1. BYPASS EXISTING STORMWATER PIPE
 - 9.2. INSTALL SEWER DIVERSION STRUCTURE
- 10. INSTALL PERMEABLE REACTIVE BARRIER 10.1. EXCAVATE TRENCH FOR BARRIER INSTALLATION 10.2. MIX APATITE II PRODUCT WITH EXCAVATED MATERIAL TO ACHIEVE 3% SOIL MIX BY MASS
- 10.3. PERFORM QA/QC MEASURES FOR BARRIER CONSTRUCTION 11. INSTALL MONITORING WELLS
- 12. RESTORE AND RESEED WORKZONE ACCORDING TO SHEET L-101.

EROSION AND SEDIMENTATION CONTROL

1.

LOCAL ORDINANCE. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA AND ISSUED PERMIT CONDITIONS TO PREVENT OR MINIMIZE SOIL EROSION. 2. THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DICTATED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND THE TOWN OF ISLIP. ALL **EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE** CONDITION DURING CONSTRUCTION.

DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND

- THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "NEW YORK 3. STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" DOCUMENT AS A GUIDE IN CONSTRUCTION OF THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS DOCUMENT.
- 4. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS
- ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CLEAN ROADS, 6 CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
- PROPOSED ACCESS, STAGING, AND TEMPORARY SEDIMENT 7. STOCKPILING LOCATIONS ARE DEPICTED ON THE PLANS FOR INFORMATIONAL PURPOSES ONLY. SHALL BE DELINEATED BY THE CONTRACTOR FOR APPROVAL PRIOR TO PROJECT INITIATION.
- 8. THE CONSTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE AS SHOWN ON THE PLANS AROUND ANY SOIL STOCKPILE AREAS.
- TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED 9. AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED.
- 10. STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED AS TEMPORARY MULCHING MATERIALS. STRAW OR HAY MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE, WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,500-2,000 POUNDS PER ACRE, OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER OR DURING HOT, DRY WEATHER. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.

CONTROL OF WATER

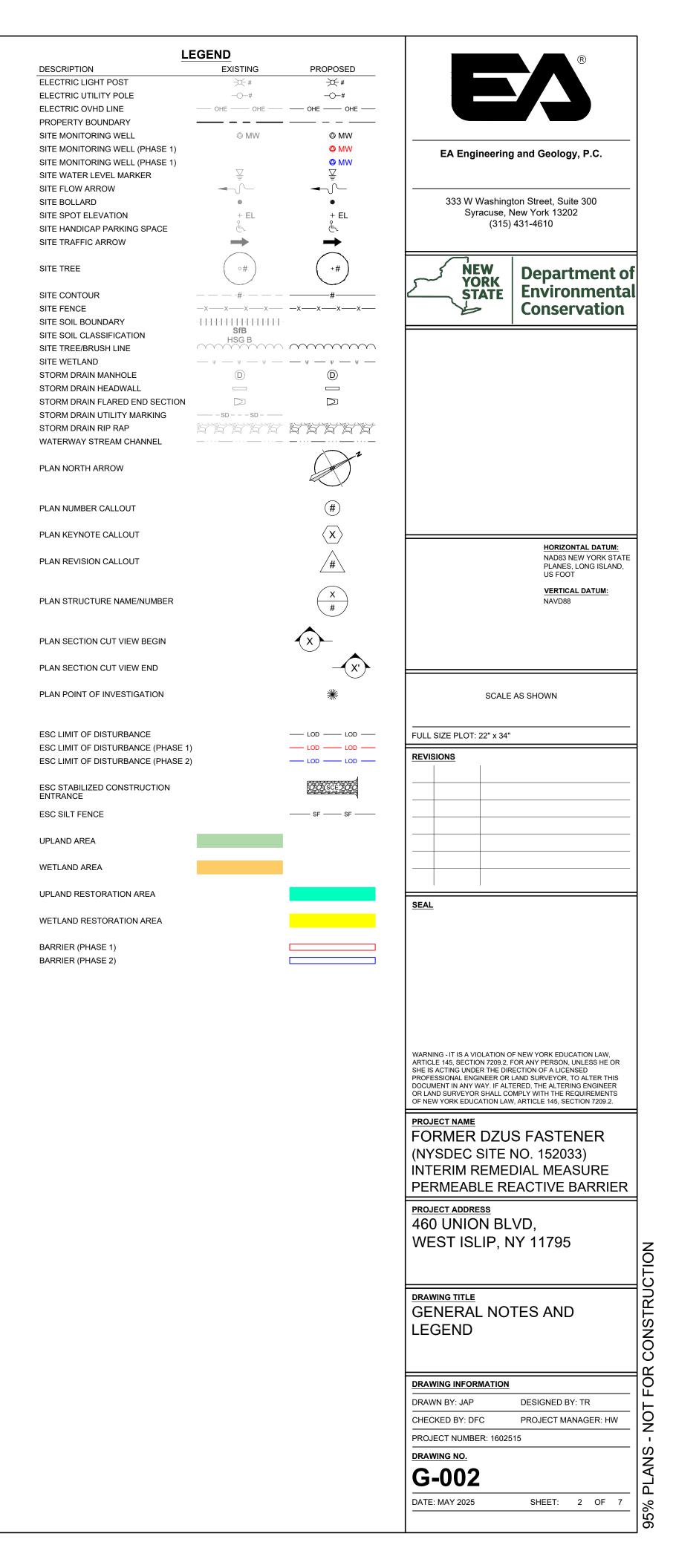
- COFFER DAMS, DIVERSIONS, OR BERMS TO DIVERT FLOW AROUND THE WORK AREA SHALL PROVIDE PROTECTION FROM RELEASE OF SEDIMENT AND WATER TO WILLETTS CREEK. DIVERSIONS AND OTHER CONTROL STRUCTURES DEPICTED ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. THE MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.
- 2. THE DEWATERING SHALL BE OPERATED SUCH THAT TURBIDITY OF THE RIVER IS NOT INCREASED
- DIVERSIONS SHOULD NOT OBSTRUCT MORE THAN 40% OF THE STREAM 3. WIDTH
- THE CONTRACTOR SHALL MANAGE ALL WATER WITHIN THE WORK AREA. 4 DEWATERING FLUIDS/SEDIMENT LADEN WATER FROM THE CONSTRUCTION AREA SHALL BE CONTAINERIZED AND REMOVED OFFSITE BY THE CONTRACTOR.

QA/QC NOTES

- 1. CONTRACTOR SHALL BE RESPONSBILE FOR COMPLYING WITH THE QA/QC TESTING SPECIFICED IN THE SCOPE OF WORK.
- DEFICIENCIES IN MIXING/DISTRIBUTION OF APATITE II AS DETERMINED BY QA/QC TESTING, VISUAL OBSERVATION, OR AS DETERMINED BY THE ENGINEER OR THE STATE OF NEW YORK WILL BE REMEDIED BY THE CONTRACTOR.
- REMEDIES ARE ANTICIPATED TO INCLUDE ADDITIONAL MIXING TIME, 3 INCREASED QUANTITY OF APATITE II IN SUBJECT MIXING CELL: CONTRACTOR IS NOT RESPONSIBLE FOR PURCHASE AND SUPPLY OF APATITE II.

ABBREVIATIONS

AC	ACRES
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BLDG	BUILDING
BW	BOTTOM OF WALL
CL - C/L	CENTER LINE
CONC	CONCRETE
CY - CU YDS	CUBIC YARDS
DIA	DIAMETER
EL - ELEV	ELEVATION
EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY
ESC	SOIL EROSION AND SEDIMENT CONTROL
ESD	ENVIRONMENTAL SITE DESIGN
EX - EXST	EXISTING
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FT	FEET
INV	INVERT
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
NA	NOT APPLICABLE
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGS	NATIONAL GEODETIC SURVEY
NO.	NUMBER
NRCS	NATIONAL RESOURCE CONSERVATION SERVICE
OH - OVHD	OVERHEAD OR ABOVEGROUND
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PR - PROP	PROPOSED
RCP	REINFORCED CONCRETE PIPE
SCH	SCHEDULE
SD	STORM DRAIN
SF - SQ FT	SQUARE FEET
SS	SANITARY SEWER
SWM	STORMWATER MANAGEMENT
TYP	TYPICAL
UG - UGND	UNDERGROUND
UNK	UNKNOWN
U.S.	UNITED STATES
USACE	U.S. ARMY CORPS OF ENGINEERS
USDA	U.S. DEPARTMENT OF AGRICULTURE
USGS	U.S. GEOLOGICAL SURVEY
W/	WITH
WSEL	WATER SURFACE ELEVATION





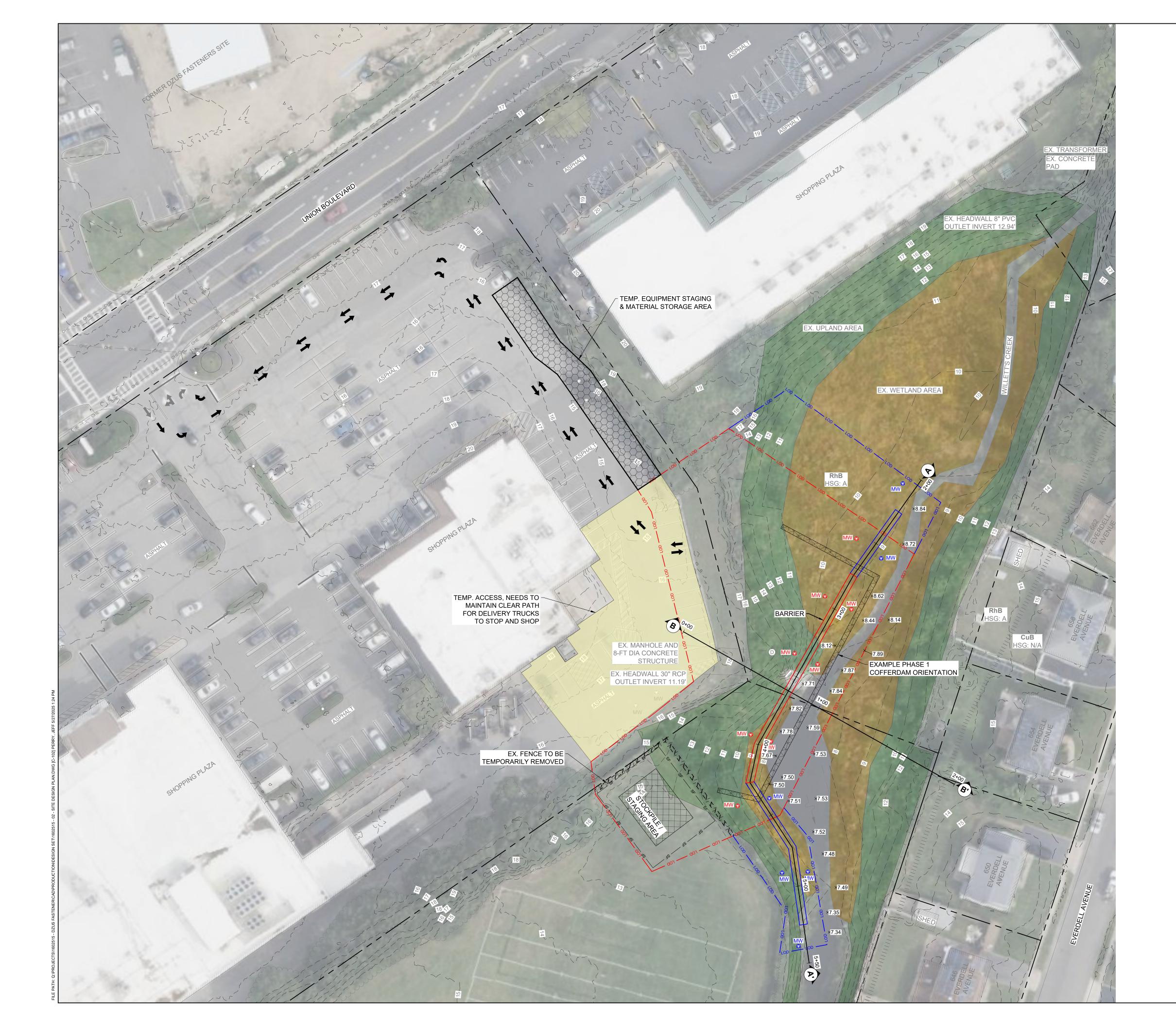
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LEGEND

UPLAND AREA

WETLAND AREA

	R
EA Engineering	and Geology, P.C.
Syracuse, N	ton Street, Suite 300 Jew York 13202 431-4610
NEW YORK STATE	Department of Environmental Conservation
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PROJECT NUMBER: 16025 DRAWING NO. C-101	15
DATE: MAY 2025	SHEET: 3 OF 7



LEGEND

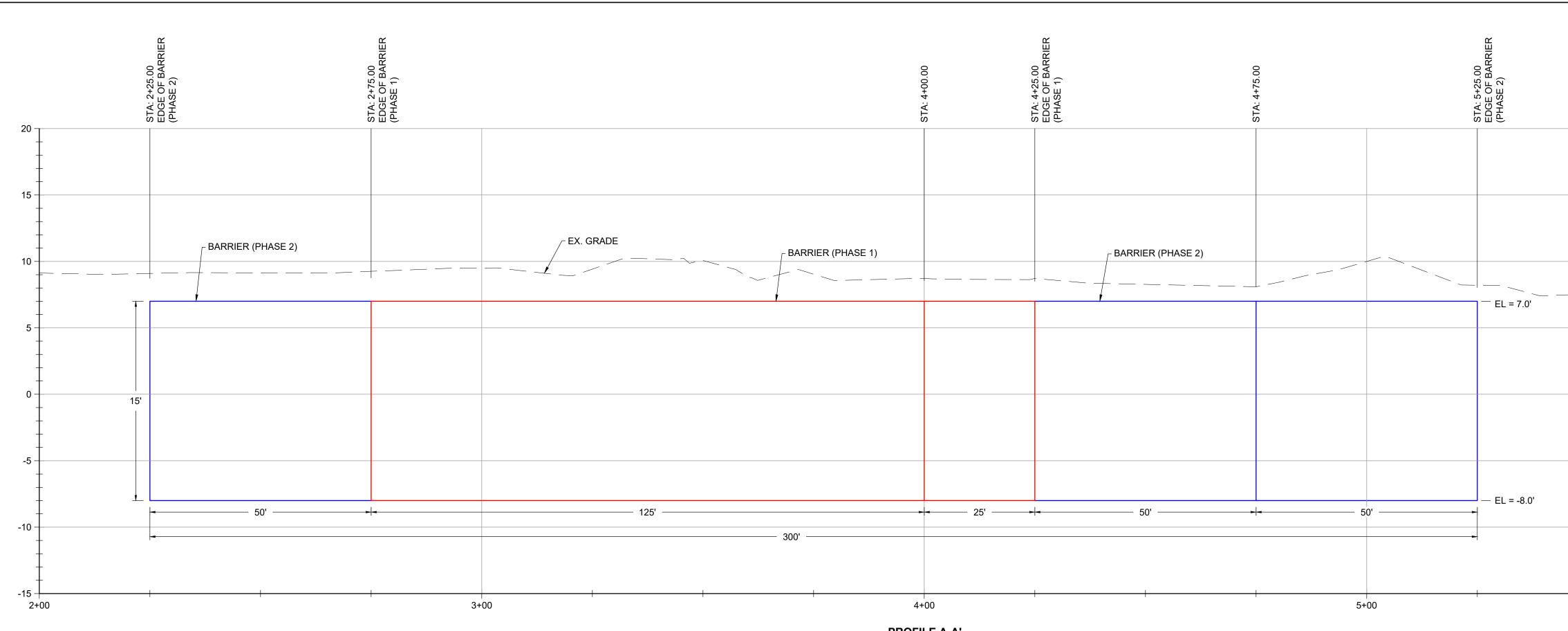
	UPLAND AREA
	WETLAND AREA
LOD LOD	ESC LIMIT OF DISTURBANCE (PHASE 1)
LOD	ESC LIMIT OF DISTURBANCE (PHASE 2)
Ø MW	MONITORING WELL (PHASE 1)
Ø MW	MONITORING WELL (PHASE 2)
	BARRIER (PHASE 1)
	BARRIER (PHASE 2)

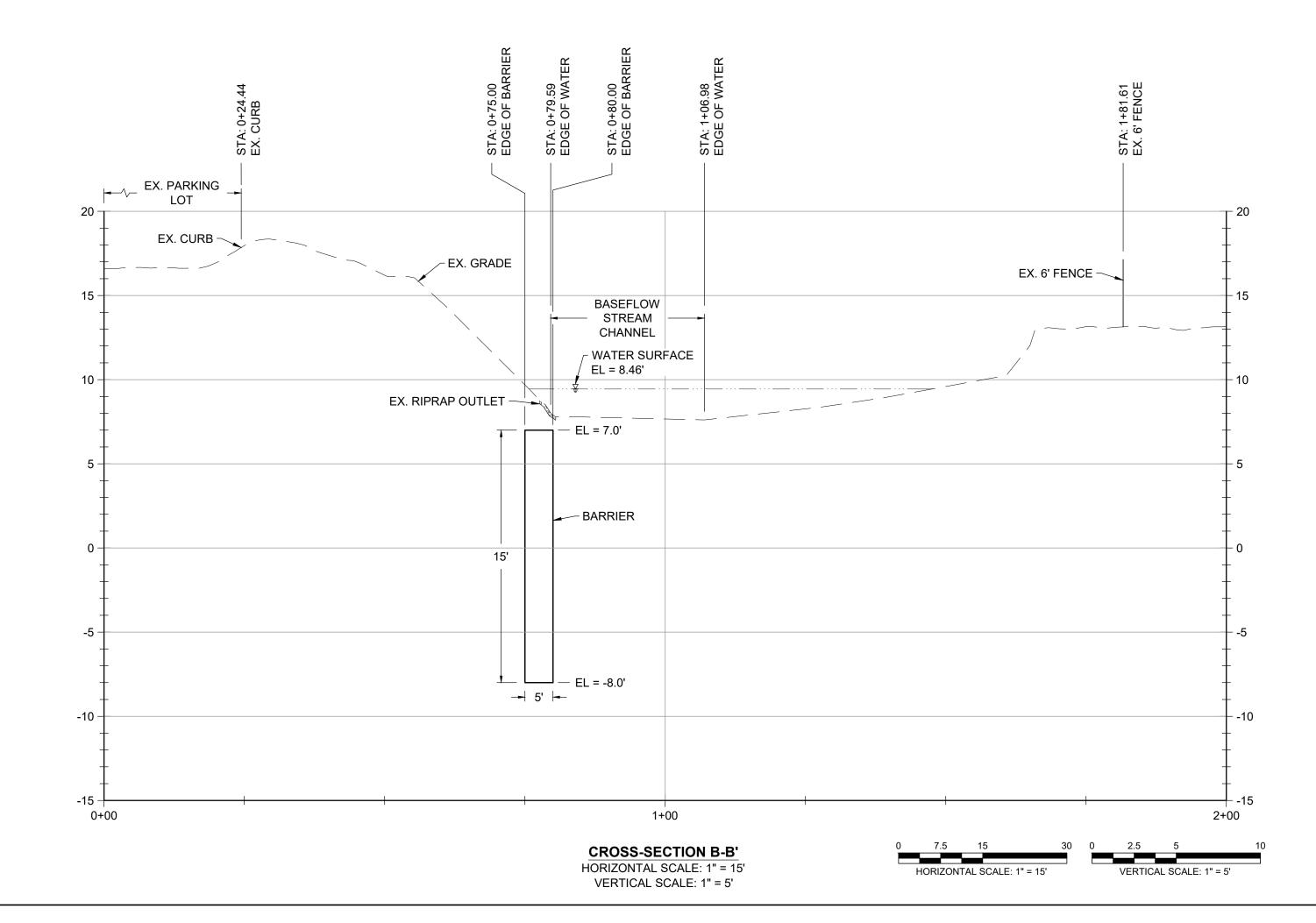
NOTE

PHASE 2 LIMIT OF DISTURBANCE IS INCLUSIVE OF THE PHASE 1 LIMIT OF DISTURBANCE.

R								
EA Engineering and Geology, P.C.								
333 W Washington Street, Suite 300 Syracuse, New York 13202 (315) 431-4610								
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5% PLANS - NOT FOR CONSTRUCTION





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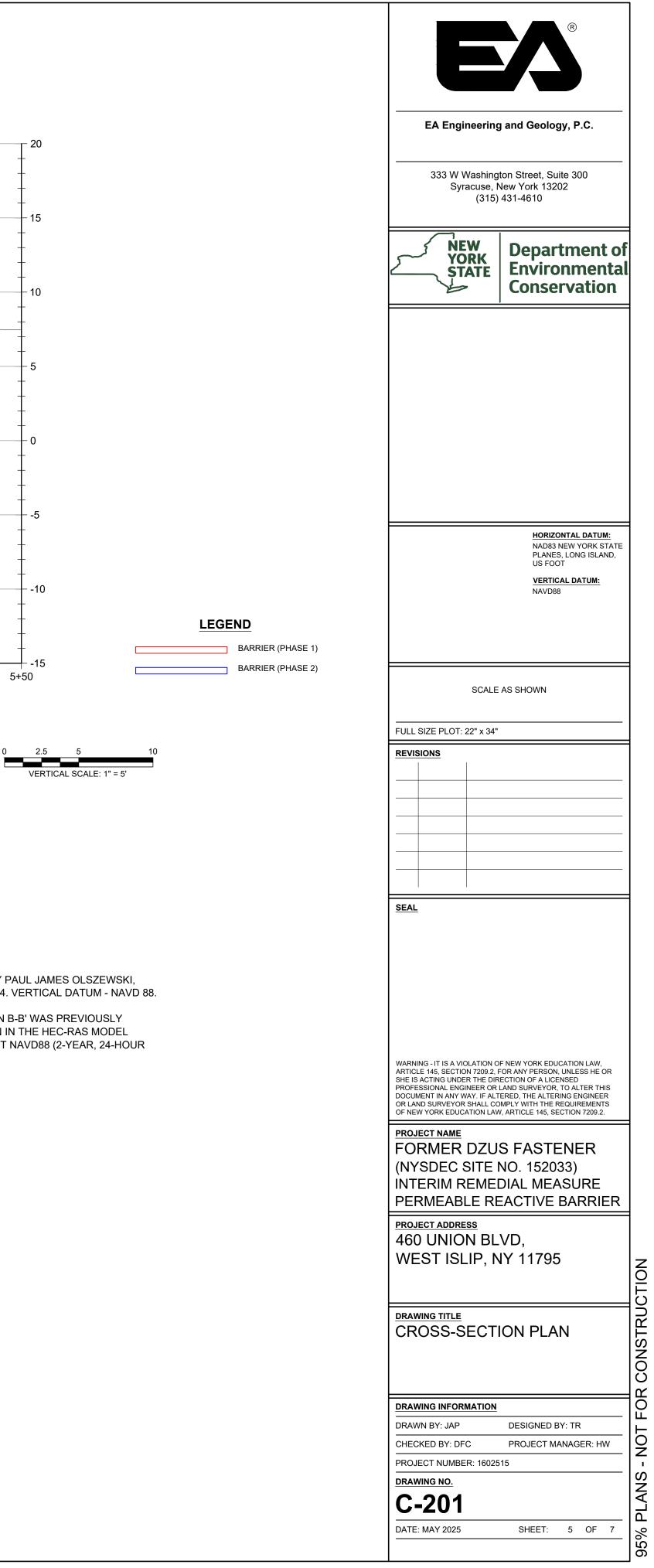
PROFILE A-A' HORIZONTAL SCALE: 1" = 15' VERTICAL SCALE: 1" = 5'



NOTE

WATER SURFACE ELEVATION SHOWN SURVEYED BY PAUL JAMES OLSZEWSKI, P.L.S., PLLC. SURVEY WAS PERFORMED 17 JUNE 2024. VERTICAL DATUM - NAVD 88.

WATER SURFACE ELEVATION ACROSS THIS SECTION B-B' WAS PREVIOUSLY MODELED IN HEC-RAS. WATER SURFACE ELEVATION IN THE HEC-RAS MODEL RANGE FROM 7.88 FT NAVD88 (BASEFLOW) TO 8.68 FT NAVD88 (2-YEAR, 24-HOUR STORM).





RESTORATION NOTES

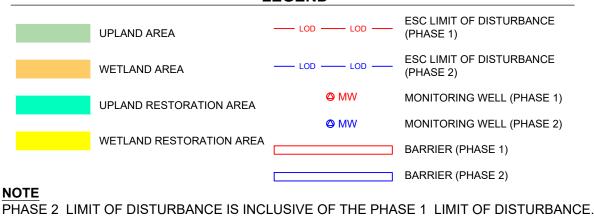


SEED TO BE SPREAD IN WETLAND AREAS SHALL BE THOROUGHLY MIXED AND EVENLY SOWN AT A RATE OF 18 LB/ACRE OF PURE LIVE SEED OVER THE PREPARED AREAS. SEED MAY BE SOWN HYDRAULICALLY. SEED MIXTURE SHALL BE AS SHOWN BELOW:

BOTANICAL NAME

CAREX VULPINOIDEA CAREX SCOPARIA CAREX LURIDA CAREX LUPULINA POA PALUSTRIS BIDENS FRONDOSA SCIRPUS ATROVIRENS ASCLEPIAS INCARNATA CAREX CRINITE VERNONIA NOVEBORACENSIS JUNCUS EFFUSUS ASTER LATERIFLORUS (SYMPHYOTRICHUM LATERIFLORUM) **IRIS VERSICOLOR** GLYCERIA GRANDIS MIMULUS RINGENS EUPATORIUM MACULATUM (EUTROCHIUM MACULATUM)

2 TONS/ACRE. CARE.



ALL DISTURBED AREAS DEFINED SHALL BE RESTORED TO PRE-EXISTING GRADE FOR APPLICATION OF SEED, MULCH, LIMESTONE, AND FERTILIZER IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) SPECIFICATIONS SECTION 610 TURF AND WILDFLOWER ESTABLISHMENTS. FERTILIZER, MULCH, AND SEED SHALL BE APPLIED IN ACCORDANCE WITH NYSDOT 3.02 ESTABLISHED TURF, AND METHOD NO. 1, GROUND PREPARATION. CARE DURING CONSTRUCTION SHALL CONFIRM WITH METHOD NO. 1

SEED TO BE SPREAD IN UPLAND AREAS SHALL BE THOROUGHLY MIXED AND EVENLY SOWN AT A RATE OF 95 LB/ACRE OF PURE LIVE SEED OVER THE PREPARED AREAS. SEED MAY BE SOWN HYDRAULICALLY. SEED MIXTURE SHALL BE

BOTANICAL NAME	COMMON NAME	PERCENT OF SEED MIXTURE
GON GERARDII	BIG BLUESTEM	17
S INCARNATA	SWAMP MILKWEED	0.5
S INCARNATA VAR. PULCHRA	EASTERN SWAMP MILKWEED	0.5
RISTA FASCICULATA	PARTRIDGE PEA	1
IRGINICUS	VIRGINIA WILD-RYE	24
UM PERFOLIATUM	BONESET	2
AUTUMNALE	SNEEZEWEED	2
FISTULOSA	WILD BERGAMOT	1
CLANDESTINUM	DEERTONGUE	14
/IRGATUM	SWITCHGRASS	11
IEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	1
A HIRTA	BLACK-EYED SUSAN	1
NEMORALIS	GRAY GOLDENROD	1
TRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	2
TRICHUM NOVI-BELGII	NEW YORK ASTER	1
LAVUS	PURPLETOP	15
HASTATA	BLUE VERVAIN	4
EA	GOLDEN ALEXANDER	0.5

FOX SEDGE

LURID SEDGE HOP SEDGE

BLUNT BROOM SEDGE

FOWL BLUEGRASS

BEGGAR TICKS

GREEN BULRUSH

SWAMP MILKWEED

NEW YORK IRONWEED

STARVED/CALICO ASTER

AMERICAN MANNAGRASS

SPOTTED JOE PYE WEED

SQUARE STEMMED MONKEY FLOWER

FRINGED SEDGE

SOFT RUSH

BLUE FLAG

COMMON NAME



EA Engineering and Geology, P.C.

333 W Washington Street, Suite 300 Syracuse, New York 13202 (315) 431-4610



HORIZONTAL DATUM: NAD83 NEW YORK STATE PLANES, LONG ISLAND, US FOOT VERTICAL DATUM: NAVD88

> **GRAPHIC SCALE IN FEET**

FULL SIZE PLOT: 22" x 34"

REVISIONS

SEAL

FERTILIZER SHALL MEET NYSDOT 713-03, TYPE NO. 2. A 20-20- FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 LB/ACRE. ANOTHER ANALYSIS, IN THE SAME RATIO, MAY BE USED BY VARYING THE APPLICATION RATE TO PRODUCE THE SAME VALUES SPECIFIED. IN ADDITION, 2 TONS/ACRE OF AGRICULTURAL LIME SHALL BE APPLIED, IN ACCORDANCE WITH NYSDOT 713-02.

MULCHING MATERIAL SHALL BE IN ACCORDANCE WITH NYSDOT 713-18 AND/OR 713-19 AND EVENLY PLACED OVER ALL SEEDED AREAS IN ACCORDANCE WITH NYSDOT 713-12. MULCH SHALL BE STRAW APPLIED AT THE APPROXIMATE RATE OF

SEEDING SHALL BE APPLIED BETWEEN 15 APRIL AND 15 OCTOBER, ANY OTHER TIME SHALL REQUIRE THE APPROVAL OF ENGINEER AND NYSDEC.

PLANTED AREAS SHALL BE CARED FOR IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION REQUIREMENTS OF NYDOT SECTIONS 611-3.05—POST-PLANTING

VEGETATION ESTABLISHMENT PERIOD EXECUTION SHALL CONTINUE UNTIL ALL OF THE FOLLOWING CONDITIONS ARE MET:

8.1 WATER EVENTS HAVE BEEN COMPLETED. WATERING SHALL BE AT INTERVALS TO OBTAIN MOIST SOIL CONDITION TO A MINIMUM DEPTH OF 1 INCH. FREQUENCY OF WATERING AND QUANTITY OF WATER SHALL BE ADJUSTED IN ACCORDANCE WITH THE GROWHT OF VEGETATION.

8.2 VEGETATIVE COVER IS ESTABLISHED OVER 95 PERCENT OF SEEDED AREAS 8.3 NOT MORE THAN 5 PERCENT OF AREAS WITH BARE SPOTS LARGER THAN 1 SQUARE FOOT.

8.4 LESS THAN 15 PERCENT INVASIVE SPECIES ARE PRESENT WITHIN AREAS VEGETATED BY CONTRACTOR

8.5 WRITTEN APPROVAL BY ENGINEER AND NYSDEC.

IF PERMANENT SEEDING CAN NOT BE COMPLETED WITHIN THE DATES SPECIFIED, INSTALL TEMPORARY SEED AND MULCH IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS 209-3.03. IF NEITHER PERMANENT NOR TEMPORARY SEEDING CAN BE INSTALLED WITHIN THE RECOMMENDED SEEDING PERIODS, USE TEMPORARY MULCHING OR EROSION CONTROL BLANKETING TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD. 10. DAMAGE TO PAVED AREAS, CURBS, OR SIDEWALKS WILL BE RESTORED WITH

ASPHALT COLD-PATCH OR CONCRETE, AS APPROPRIATE. I FGEND

UPLAND AREA	LOD LOD	ESC LIMIT OF DISTURBANCE (PHASE 1)
WETLAND AREA	LOD LOD	ESC LIMIT OF DISTURBANCE (PHASE 2)
UPLAND RESTORATION AREA	Ø MW	MONITORING WELL (PHASE 1)
	Ø MW	MONITORING WELL (PHASE 2)
WETLAND RESTORATION AREA		BARRIER (PHASE 1)
		BARRIER (PHASE 2)

PROJECT ADDRESS 460 UNION BLVD, WEST ISLIP, NY 11795

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR

PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS

DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL COMPLY WITH THE REQUIREMENTS

OF NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209.2.

FORMER DZUS FASTENER

INTERIM REMEDIAL MEASURE

PERMEABLE REACTIVE BARRIER

(NYSDEC SITE NO. 152033)

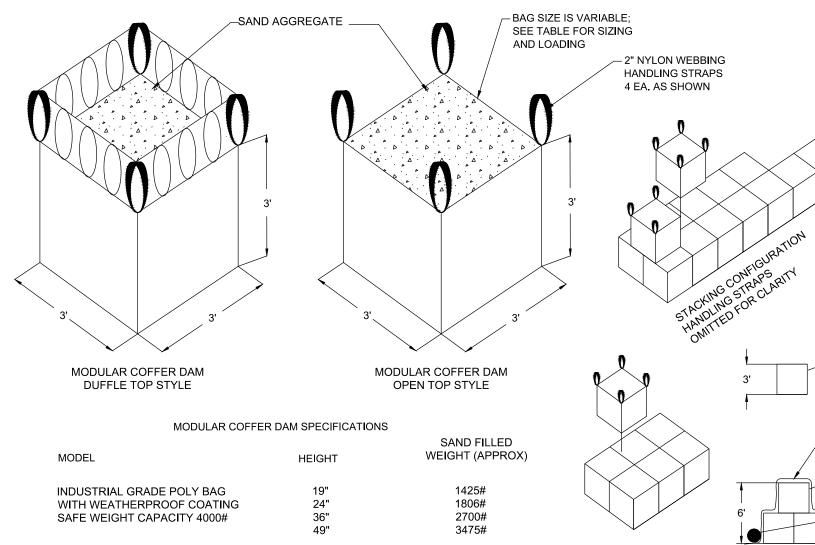
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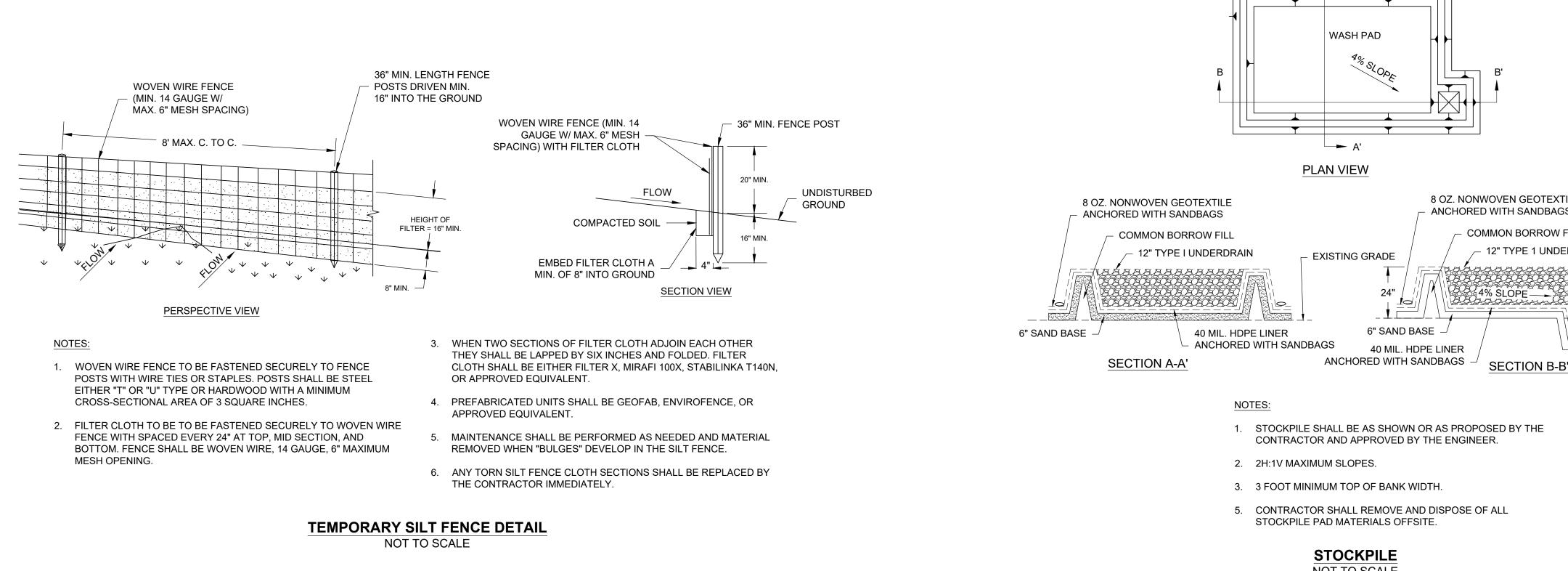
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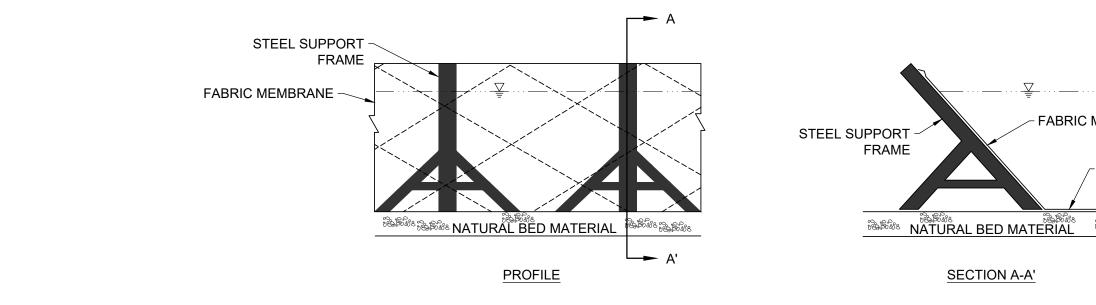
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PROJECT NUMBER: 160	2515
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DATE: MAY 2025 SHEET: 6 OF 7



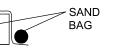
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WATER LEVEL

-6 MIL POLYETHYLENE WATER LEVEL





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MEMBRANE	EA Engineering and Geology, P.C. 333 W Washington Street, Suite 300 Syracuse, New York 13202 (315) 431-4610
ー IMPERVIOUS FABRIC SEALING SHEET	NEW YORK STATE Environmenta
	Conservation
	HORIZONTAL DATUM: NAD83 NEW YORK STAT PLANES, LONG ISLAND, US FOOT <u>VERTICAL DATUM:</u> NAVD88
	SCALE AS SHOWN
	FULL SIZE PLOT: 22" x 34"
	SEAL
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EXISTING GRADE	FORMER DZUS FASTENER (NYSDEC SITE NO. 152033) INTERIM REMEDIAL MEASURE PERMEABLE REACTIVE BARRIEF
12" DIAMETER PERFORATED PIPE	PROJECT ADDRESS 460 UNION BLVD, WEST ISLIP, NY 11795
	DETAILS
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Appendix D Engineer's Estimate This page intentionally left blank

Client:		NYSDEC					
Project	Name:	Dzus Fastener	Project Manager: Hilary Williams			√1lliams	
Ĵ.	Number	1602515	1				
Item No.	Qty	Description	Unit of Measure	U	nit Price		Item Price
1		Site Preparation (West Islip, NY)				\$	67,723.38
101	10%	Mobilization/Demobilization				\$	23,318.95
102	1	Portable toilet	EA	\$	234.51	\$	234.51
103	1	Dust monitoring	Month	\$	2,580.00	\$	2,580.00
104	1	Frac tank	Month	\$	1,093.12	\$	1,093.12
105	1	Office Trailer	Month	\$	360.00	\$	360.00
106	15	Site Services	Day	\$	1,500.00	\$	22,500.00
107	200	Fence Removal	LF	\$	2.83	\$	566.00
108	675	Install temporary construction fence	LF	\$	9.50	\$	6,412.50
109	0.6	Clearing and grubbing	Acre	\$	6,550.45	\$	3,788.01
110	11	Upland Topsoil Stripping and Stockpiling	MSF	\$	71.61	\$	773.39
111	9	Wetland Topsoil Stripping and Stockpiling	MSF	\$	71.61	\$	644.49
112	8	Install crane mats	EA	\$	338.00	\$	2,704.00
113	553	Silt Fence	LF	\$	4.97	\$	2,748.41
2		Temporary Coffer Dam				\$	16,449.00
201	261	Open Top Bags, 35x35x40" Supersacks for Temp Coffer Dam	EA	\$	24.00	\$	6,264.00
202	500	Sand Fill Material; Fill Open Top Bags For Temp Coffer Dam	СҮ	\$	8.00	\$	4,000.00
203	5	Pallet of Small 40 lb Sand Bags Temp Coffer Dam (75 bags / pallet)	EA	\$	1,195.00	\$	5,975.00
204	5	6 mil poly liner rolls (10' X 100') Temp Coffer Dam	EA	\$	42.00	\$	210.00
3		Monitoring Well Installation				\$	39,675.00
301	225	Installation of borings for well installation	LF	\$	29.00	\$	6,525.00
302	225	Installation of 2-inch PVC monitoring well (10-ft PVC screen)	LF	\$	97.00	\$	21,825.00
303	11	Installation stick up well cover	Each	\$	450.00	\$	4,950.00
304	15	55-gal DOT drums and staging onsite	Drum	\$	100.00	\$	1,500.00
305	15	Disposal of 55-gallon drums containing Non-Haz Solids	Drum	\$	125.00	\$	1,875.00
306	1	Decontamination Pad	LS	\$	3,000.00	\$	3,000.00
4		Apatite II Product				\$	72,931.67
401	1	Apatite II Container (20 metric tons/container)	EA	\$	40,000.00	\$	40,000.00
402	1	Apatite II Container Unload	LS	\$	2,965.00	\$	2,965.00
403	417	Transport of Apatite II to Site from Storage	СҮ	\$	19.12	\$	7,966.67
404	1	Estimated Odor Suppression	LS	\$	22,000.00	\$	22,000.00

 Table 1a. Engineer's Estimate for Apatite II Permeable Reactive Barrier (Phase 1)

EA Project No. 16025.15 Table 1a, Page 1



Client:		NYSDEC Project Manager: Hilary Williams						
•	Name:	Dzus Fastener	riojec	t Wallager. Tilla	iy v	v iiiiaiiis		
Project	Number	1602515						
Item No.	Qty	Description	Unit of Measure	Unit Price	-	Item Price		
5		Barrier Installation			\$	40,500.00		
501	150	PRB Installation	LF	\$ 210.00	\$	31,500.00		
502	1	Stormwater Piping Management	LS	\$ 6,000.00	\$	6,000.00		
503	30	Surplus material disposal - Non-Hazardous	Tons	\$ 100.00	\$	3,000.00		
6		Site Restoration			\$	19,229.41		
601	1200	Upland Seed	SY	\$ 0.61	\$	732.00		
602	1000	Wetland Seed	SY	\$ 0.61	\$	610.00		
603	2200	Spread Topsoil	SY	\$ 2.90	\$	6,380.00		
604	200	Reinstall Chain Link Fence	LF	\$ 31.00	\$	6,200.00		
605	33	Rip Rap - Medium Stone	СҮ	\$ 80.00	\$	2,607.41		
606	20	Liquid Disposal - Non Haz	Drum	\$ 135.00	\$	2,700.00		
7		Miscelleanous - Optional Costs			\$	45,132.30		
701	200	Procure and Deliver Upland Backfill	СҮ	\$ 77.94	\$	15,588.00		
702	170	Procure and Deliver Wetland Backfill	СҮ	\$ 77.94	\$	13,249.80		
703	200	Haul Upland Backfill	СҮ	\$ 9.53	\$	1,906.00		
704	170	Haul Wetland Backfill	СҮ	\$ 9.53	\$	1,620.10		
705	2200	Place Backfill	SY	\$ 5.75	\$	12,650.00		
706	370	Compact Backfill	СҮ	\$ 0.32	\$	118.40		
				Subtotal	\$	301,640.76		
				Contingency		25%		
				Total	\$	377,051.00		

 Table 1a. Engineer's Estimate for Apatite II Permeable Reactive Barrier (Phase 1)

EA Project No. 16025.15 Table 1a, Page 2



Client:		NYSDEC	Project Manager: Hilary Williams			Williams	
Project	Name:	Dzus Fastener	Proje		anager: mi	ary	vv iinams
Project	Number:	1602515					
Item No.	Qty	Description	Unit of Measure	Unit Price			Item Price
1		Site Preparation (West Islip, NY)				\$	70,685.00
101	10%	Mobilization/Demobilization				\$	21,639.31
102	1	Portable toilet	Month	\$	286.12	\$	286.12
103	1	Dust monitoring	Month	\$	2,657.40	\$	2,657.40
104	1	Frac tank	Month	\$	1,359.00	\$	1,359.00
105	1	Office Trailer	Month	\$	360.00	\$	360.00
106	15	Site Services	Day	\$	1,500.00	\$	22,500.00
107	215	Fence Removal	LF	\$	3.11	\$	669.30
108	675	Install temporary construction fence	LF	\$	10.45	\$	7,053.75
109	0.8	Clearing and grubbing	Acre	\$	7,205.50	\$	5,449.11
110	12	Upland Topsoil Stripping and Stockpiling	MSF	\$	73.76	\$	916.89
111	11	Wetland Topsoil Stripping and Stockpiling	MSF	\$	73.76	\$	780.88
112	8	Install crane mats	EA	\$	338.00	\$	2,704.00
113	667	Silt Fence	LF	\$	6.46	\$	4,309.49
2		Temporary Coffer Dam				\$	4,637.00
201	83	Open Top Bags, 35x35x40" Supersacks for Temp Coffer Dam	EA	\$	24.72	\$	2,043.52
202	87	Sand Fill Material; Fill Open Top Bags For Temp Coffer Dam	CY	\$	0.03	\$	2.28
203	2	Pallet of Small 40 lb Sand Bags Temp Coffer Dam (75 bags / pallet)	EA	\$	1,230.85	\$	2,461.70
204	3	6 mil poly liner rolls (10' X 100') Temp Coffer Dam	EA	\$	43.26	\$	129.78
3		Monitoring Well Installation				\$	27,165.00
301	165	Installation of borings for well installation	LF	\$	29.00	\$	4,785.00
302	165	Installation of 2-inch PVC monitoring well (10-ft PVC screen)	LF	\$	97.00	\$	16,005.00
303	5	Installation stick up well cover	Each	\$	450.00	\$	2,250.00
304	5	55-gal DOT drums and staging onsite	Drum	\$	100.00	\$	500.00
305	5	Disposal of 55-gallon drums containing Non-Haz Solids	Drum	\$	125.00	\$	625.00
306	1	Decontamination Pad	LS	\$	3,000.00	\$	3,000.00

Table 1b. Engineer's Estimate for Apatite II Permeable Reactive Barrier (Phase 2)

Client:		NYSDEC Project Manager: Hilary Williams				Williama		
Project	Name:	Dzus Fastener	rioject Manager. III			ary williams		
Project	Number:	1602515						
Item No.	Qty	Description	Unit of Measure	ι	J nit Price		Item Price	
4		Apatite II Product				\$	73,171.00	
401	1	Apatite II Container (20 metric tons/container)	EA	\$	40,000.00	\$	40,000.00	
402	1	Apatite II Container Unload	LS	\$	2,965.00	\$	2,965.00	
403	417	Transport of Apatite II to Site from Storage	СҮ	\$	19.69	\$	8,205.67	
404	1	Estimated Odor Suppression	LS	\$	22,000.00	\$	22,000.00	
5		Barrier Installation				\$	41,715.00	
501	150	PRB Installation	LF	\$	216.30	\$	32,445.00	
502	1	Stormwater Piping Management	LS	\$	6,180.00	\$	6,180.00	
503	30	Surplus material disposal - Non-Hazardous	Tons	\$	103.00	\$	3,090.00	
6		Site Restoration				\$	20,659.00	
601	1631	Upland Seed	SY	\$	0.63	\$	1,024.90	
602	672	Wetland Seed	SY	\$	0.63	\$	422.36	
603	2303	Spread Topsoil	SY	\$	2.99	\$	6,880.39	
604	215	Reinstall Chain Link Fence	LF	\$	31.93	\$	6,864.95	
605	33	Rip Rap - Medium Stone	СҮ	\$	82.40	\$	2,685.63	
606	20	Liquid Disposal - Non Haz	Drum	\$	139.05	\$	2,781.00	
7		Miscelleanous - Optional Costs				\$	46,486.00	
701	200	Procure and Deliver Upland Backfill	СҮ	\$	80.28	\$	16,055.64	
702	170	Procure and Deliver Wetland Backfill	СҮ	\$	80.28	\$	13,647.29	
703	200	Haul Upland Backfill	СҮ	\$	9.82	\$	1,963.18	
704	170	Haul Wetland Backfill	СҮ	\$	9.82	\$	1,668.70	
705	2200	Place Backfill	SY	\$	5.92	\$	13,029.50	
706	370	Compact Backfill	СҮ	\$	0.33	\$	121.95	
					Subtotal	\$	284,518.00	
				С	ontingency		25%	
Total					\$	355,648.00		

Table 1b. Engineer's Estimate for Apatite II Permeable Reactive Barrier (Phase 2)

Appendix E Scope of Work and Bid Tab

Provided under separate cover.

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