



Sediment Sampling and Analysis Report (SSAR)

*Port San Luis Harbor District
Renewal of Army Corps Dredging Permit SPL-2014-00063-CLH and
Coastal Development Permit (CDP) 3-19-0106-A1 Harbor Dredging and
Beach Nourishment Plan*



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1.0 Introduction

In order to maintain accessibility to its boat launching facilities, the Port San Luis Harbor District (the Port) must periodically dredge the approaches to its Mobile Hoist Pier and Sport Launch. Dredging activities, and the subsequent deposition of the dredge spoils, are regulated by the U. S. Army Corps of Engineers (USACE) as specified in Dredging Permit # SPL-2014-00063-CLH, and by the California Coastal Commission (CCC) as set forth in Coastal Development Permit No. 3-19-0106 (and as amended in CDP No. 3-19-0106-A1).

The Port submitted a Sediment Sampling and Analysis Plan (SSAP) for the testing of sediments to be collected from the Port San Luis dredge site to the USACE and CCC in February 2024 and the list of analytes was amended by USACE in February 2025. The SSAP was assembled in accordance with the U. S. Environmental Protection Agency (EPA) 1998 “Evaluation of Dredged Material Proposed for Discharge in the Waters of the U.S. – Testing Manual (Inland Testing Manual)” (EPA 1998) and the USACE’s 2021 “Sampling and Analysis Plan/Results (SAP/R) Guidance” (USACE 2021). In February 2024 sediment samples were collected from sampling locations identified in the SSAP. These sampling locations inside the proposed dredge area are located at the Sport Launch and Mobile Hoist Pier—the main areas of necessary dredging activity—and two nourishment sites currently intended for use by the Port. The samples were submitted for physical and chemical analysis in accordance with the SSAP. This report documents the collection and analysis of those samples. Chemical analysis results will be compared to the NOAA Effects Range Low (ERL) values, the published levels in which concentrations below the ERL rarely have adverse biological effects, listed in the USACE SAP/R Guidance document (USACE 2021). Grain size results are summarized and compared between the dredge sites and the nourishment sites. All laboratory reports are included in Appendix B.



2.0 Project Description

The Port proposes to dredge bottom sediments from the basins adjacent to the Mobile Hoist Pier and the Sport Launch (also commonly referred to as the Trailer Boat Basin) down to a depth of 10 feet below Mean Lower Low Water (MLLW). The proposed dredge area and two nourishment sites are shown in **Figure 1**. Fisherman's Beach and West Bluff Beach are both identified as nourishment sites, although Fisherman's Beach has been used exclusively since 2014 as the primary nourishment site.

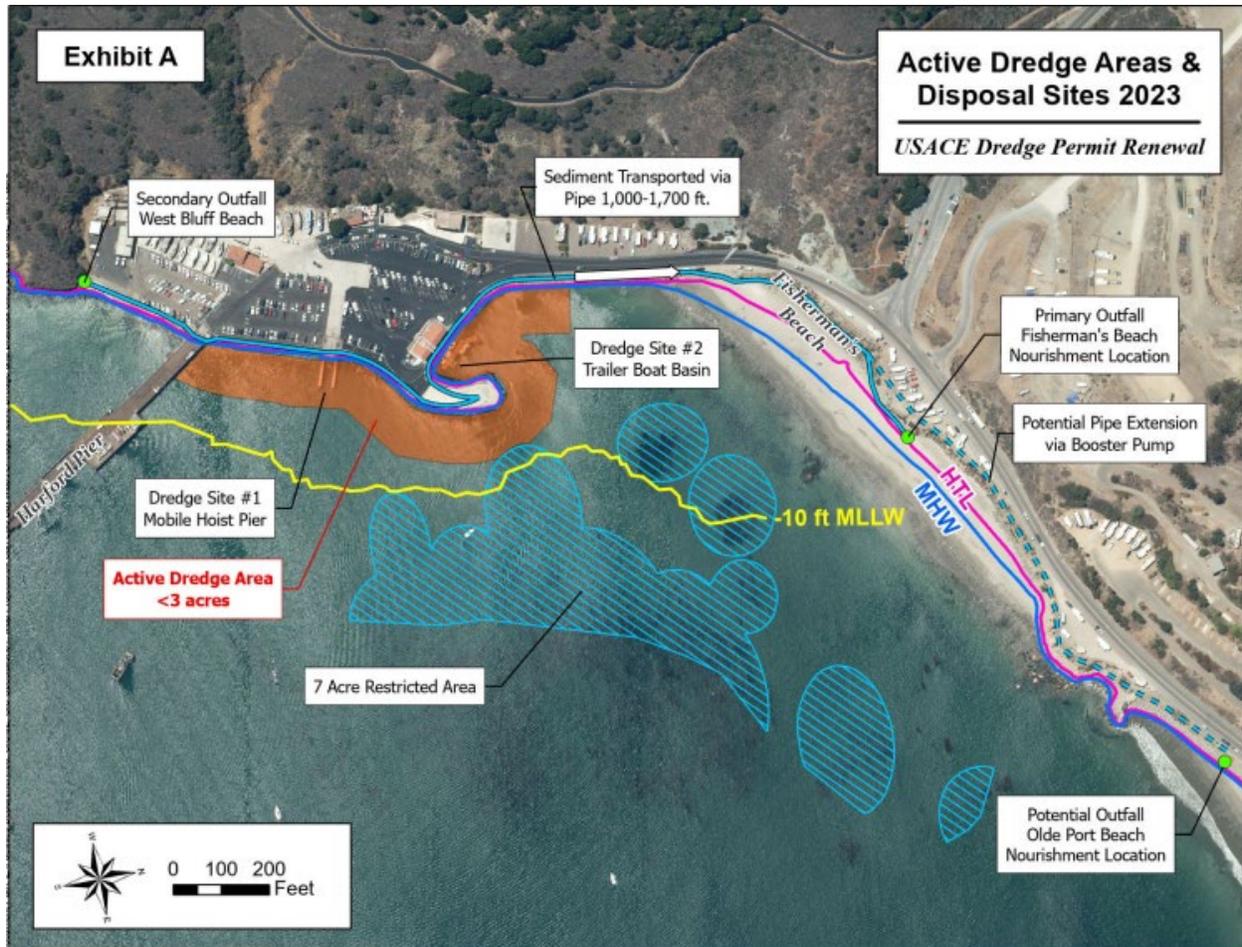


Figure 1. Proposed Port San Luis Harbor District dredging location surrounding the Sport Launch and Mobile Hoist Pier (red area) and the three nourishment sites (green dots) in San Luis Obispo Bay.



According to the existing USACE permit and the CDP permit, the maximum dredge depth permitted is 10 feet below MLLW, with an additional foot to allow for over-dredging. Sand in the vicinity of the Mobile Hoist Pier will be removed to the maximum depth allowed. Dredging in the vicinity of the Sport Launch, however, is limited by the nature of the bottom substrate. Dredging in the area immediately adjacent to the Sport Launch is limited to about 5 to 7 feet below MLLW due to the presence of an underlying rocky bottom. The depth to which dredgeable material can be found increases as one moves away from the Sport Launch, and dredging will extend to the maximum depth of 10 feet below MLLW where it can be achieved.

The Port anticipates that the volume of sediment to be removed annually from the entire dredged area will not exceed the maximum 75,000 cubic yards of material allowed by the existing CDP dredge permit, No. 3-19-0106-A1. Over the past ten years (2014 through 2023) the average annual volume of material removed during maintenance dredging has been 17,209 cubic yards (**Table 1**). The Port anticipates that a similar volume of material will be removed annually for the foreseeable future.

Dredged material will be used for beach nourishment at any of the three proposed sites shown in **Figure 1**. Fisherman's Beach is currently being used exclusively for beach nourishment. West Bluff Beach (secondary nourishment site) and Olde Port Beach are also alternative beach nourishment sites.



3.0 Site History

Port San Luis Harbor is a small craft harbor located in the lee of Point San Luis in the small town of Avila Beach, which is about 8 miles southwest of the city of San Luis Obispo, California. The harbor is protected by a rock rubble breakwater that extends southeast from Point San Luis for a distance of about 2,000 feet. While the point and breakwater provide adequate protection from the majority of the predominantly northwesterly swells, the high-energy nature of the ocean along this section of coastline can still produce significant water movement within the harbor. This is most notable during southerly and southwesterly swells, or during the larger northwesterly swells generated by winter storms. Wave action, combined with non-wave driven currents, is responsible for the transport of sand and other suspended particles from San Luis Creek and the outer coastal areas into the quieter waters of the harbor where they are deposited. Sand deposited in the lee of the breakwater is later transported within the harbor and contributes to the shoaling in areas like the Mobile Hoist Pier and the Sport Launch basins. This ongoing process necessitates the periodic dredging of these areas to allow their continued access by boats.

The volume of material dredged from the vicinity of the Sport Launch and Mobile Hoist Pier basins during the past ten years is shown in **Table 1**. From 2014 through 2023, the average amount dredged per year was 17,209 cubic yards.

Table 1. Dredge activity from the past 10 years at Port San Luis, California.

| Period of Dredge Activity | Sport Launch (Trailer Boat Basin) Dredge Vol. (yds ³) | Mobile Hoist Pier Basin Dredge Vol. (yds ³) | Total Dredge Vol. (yds ³) |
|---------------------------|---|---|---------------------------------------|
| 03/14-06/14 | 11,699 | 6,414 | 18,113 |
| 03/15-07/15 | 10,999 | 6,674 | 17,673 |
| 03/16-06/16 | 8,505 | 5,395 | 13,900 |
| 03/17-08/17 | 17,579 | 5,549 | 23,127 |
| 03/18-06/18 | 9,383 | 5,549 | 14,931 |
| 03/19-07/19 | 14,200 | 6,282 | 20,482 |
| 03/20-07/15/20 | 11,527 | 4,153 | 15,680 |
| 3/1/21-7/1/21 | 9,741 | 4,243 | 13,984 |
| 3/1/22-6/15/22 | 10,075 | 6,322 | 16,397 |
| 3/1/23-8/31/23 | 12,451 | 5,353 | 17,804 |



4.0 Tier 1 Evaluation

As described in the USACE “Inland Testing Manual”, Tier I evaluations consist of the review and evaluation of existing data from a proposed dredge site. Sediment samples were collected from the dredge area and analyzed for their chemical constituents and physical characteristics (grain size) in 1996, 1998, 1999, 2000, 2003, 2009, 2013, and 2019. The results of these analyses were reported to the USACE by the Port at the conclusion of each sampling interval. Physical and chemical analyses of the sediment samples found the material to be relatively clean, coarse to medium grained sand with a low percentage of fines. Such characteristics would be consistent with those expected of sediments that had recently been deposited in an area of relatively high-water movement. The limited residence time of the sediments at the dredge site would tend to reduce their potential to accumulate any contaminants, while water movement would inhibit the deposition of finer grained sediments. The frequency of dredging and the rapidity with which shoaling takes place in the dredge zone discourages stratification of the sediments in this area.



5.0 Methods

This section describes the sediment sampling and sample analysis that was conducted on February 15, 2024. Sediment samples were collected from four different stations: the two main dredge sites and the two nourishment sites (**Figure 2**). All four stations were analyzed for grain size while the dredge stations were also analyzed for chemical constituents. Maps and a table are used to describe sample locations. Sample collection, sample handling, Quality Control/Quality Assurance, and sample storage requirement procedures are included below.

Two dredge sediment sampling stations (PSL-1 and PSL-2) were established within the PSL dredge zone as shown in **Figure 2**. The locations of the sampling stations were chosen at the primary dredging areas (Sport Launch and Mobile Hoist Pier). Each of the stations specified has been sampled at least five times previously during the period from 1996 through 2019.



Figure 2. Locations of sediment cores taken for Dredge Site samples (green dots) and grab samples taken for nourishment site samples (yellow dots, “Disposal Station”).

To accurately characterize the sediments at the two dredge sampling stations, three individual cores were collected along a line running perpendicular to the shoreline and proceeding down the natural slope of the bottom as shown in **Figure 3**. Individual cores were capped and extruded, then combined to produce a composite sample representative of the mixed material that will be deposited on the beach by the dredge. The sediment samples were collected using a diver-operated coring device. The device utilizes a 2-inch diameter stainless steel tube with a removable plastic liner. Each individual core was driven into the sediment achieving a nominal core length of 3 feet. The composited samples cover the entire depth range of the area to be dredged, extending down to 12 feet below MLLW. The three core samples were composited



using a stainless-steel bowl and stainless spoon. Samples were collected for grain size and an additional sample for archiving. Archive samples are stored in a chest freezer.

The locations of the nourishment sampling stations relative to the dredge site sampling stations are shown in **Figure 2**. At each of the nourishment sites, three shallow (approximately one foot deep) cores were collected. The three cores are approximately equal intervals along a visual transect running parallel along the beach. The three cores from each site were combined into a single composite sample representative of the sediments at each nourishment site. An additional sample for each station was collected for archive and stored in a chest freezer. The two resultant composite samples were analyzed for particle grain size to determine their compatibility with sediments collected from the dredge area sampling stations. Current UCACE guidance requires that the percentage of dredge area and nourishment site sediments that are retained by a #200 sieve be within 10% of each other to be considered compatible (UCACE 2021).

The date and time of the sample collection, water depth where each core is taken, the depth of the core, and field notes was recorded on the field datasheet during field sampling. Information from the core samples is summarized in **Table 2**. The locations of the individual cores are shown in **Figure 4**.

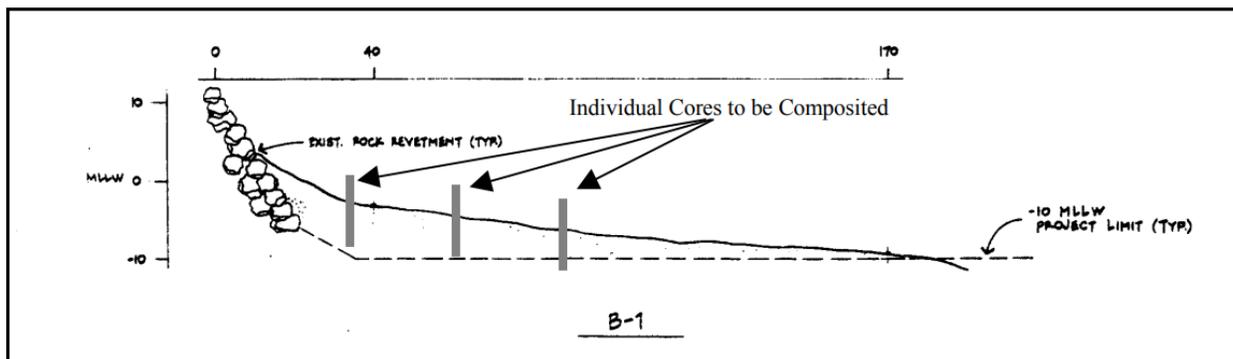


Figure 3. Profile of core sampling technique.



Table 2. Field data for core samples taken at Port San Luis Harbor on February 15, 2024.

| Station | Core # | Latitude | Longitude | Time (PDT) | Water Depth (ft) | Depth of Core (ft) | Tide (ft MLLW) | Tide adjusted core depth (ft MLLW) | Composite Core Depths (ft MLLW) |
|---------|--------|-----------|------------|------------|------------------|--------------------|----------------|------------------------------------|---------------------------------|
| PSL-1a | 1 | 35°10.357 | 120°45.330 | 11:27 | 6 | 3.0 | 1.5 | -4.5 to -7.5 | -4.5 to -12.2 |
| PSL-1b | 2 | 35°10.364 | 120°45.332 | 11:40 | 8 | 3.0 | 1.7 | -6.3 to -9.3 | |
| PSL-1c | 3 | 35°10.370 | 120°45.314 | 11:50 | 11 | 3.0 | 1.8 | -9.2 to -12.2 | |
| PSL-2a | 1 | 35°10.301 | 120°45.328 | 10:32 | 5 | 3.0 | 1.0 | -4.0 to -7.0 | -3.9 to -11.8 |
| PSL-2b | 2 | 35°10.303 | 120°45.325 | 10:49 | 5 | 3.0 | 1.1 | -3.9 to -6.9 | |
| PSL-2c | 3 | 35°10.291 | 120°45.305 | 10:55 | 10 | 3.0 | 1.2 | -8.8 to -11.8 | |
| DSP-1a | 1 | 35°10.460 | 120°45.311 | 09:52 | - | 1.0 | 0.8 | +2 to +3 | +2 to +3 |
| DSP-1b | 2 | 35°10.463 | 120°45.304 | 09:53 | - | 1.0 | 0.8 | +2 to +3 | |
| DSP-1c | 3 | 35°10.465 | 120°45.300 | 09:54 | - | 1.0 | 0.8 | +2 to +3 | |
| DSP-2a | 1 | 35°10.234 | 120°45.376 | 09:28 | - | 1.0 | 0.7 | +2 to +3 | +2 to +3 |
| DSP-2b | 2 | 35°10.237 | 120°45.373 | 09:29 | - | 1.0 | 0.7 | +2 to +3 | |
| DSP-2c | 3 | 35°10.240 | 120°45.370 | 09:30 | - | 1.0 | 0.7 | +2 to +3 | |

All samples were taken for particle grain size analysis and PSL-1 and PSL-2 (dredge sites) were also sampled for chemical analysis. Constituents and associated laboratory methods are shown in **Table 3**. The methods used for chemical analyses are specified in the USACE’s 2021 “Sampling and Analysis Plan/Results (SAP/R) Guidance” (USACE 2021) document. In some cases, newer EPA approved methods or EPA methods resulting in lower Reporting Limits have been substituted at the direction of the laboratories.

Nourishment sites were collected from approximately 3 feet above MLLW elevation (**Figure 4**). The two resultant samples were analyzed for grain size distribution to determine their compatibility with sediments collected from the dredge area sampling stations. Chemical analysis results of dredge sites were compared to the NOAA Effects Range Low (ERL) values, the published levels in which concentrations below the ERL rarely have adverse biological effects, listed in the USACE SAP/R Guidance document (USACE 2021).



Table 3. Chemical constituents tested and methods of analysis.

| Constituent | Method |
|-----------------------------------|----------------|
| Conventionals | |
| Grain Size | ASTM D 422 |
| Non-polar oil and grease (TRPH) | EPA 1664B |
| Oil and grease | EPA 1664M |
| Sulfides, Total | EPA 376.2 |
| Metals | |
| Arsenic (As) | EPA 6010B |
| Cadmium (Cd) | EPA 6010B |
| Chromium (Cr) | EPA 6010B |
| Copper (Cu) | EPA 6010B |
| Lead (Pb) | EPA 6010B |
| Mercury (Hg) | SW846 7471A |
| Nickel (Ni) | EPA 6010B |
| Selenium (Se) | EPA 6010B |
| Silver (Ag) | EPA 6010B |
| Zinc (Zn) | EPA 6010B |
| Organo-Chloride Pesticides | EPA 8081A |
| Organotins | Organotins SIM |
| PCBs | 8270C SIM CON |
| PAHs | EPA 8270C |





Figure 4. Locations of Dredge Site (red dots) and Nourishment Site (green dots) sediment cores.



6.0 Results

Samples were analyzed for grain size at potential dredging sites (PSL-1 and PSL-2) and potential nourishment sites (DSP-1 and DSP-2) to distinguish site compatibility. Chemical analysis was conducted at the dredging sites to determine potential contaminants in dredged material. These two locations were also sampled in 2013 and 2019 as part of previous permit renewals; however, the constituent list was less extensive in previous years. Copies of laboratory results are included in Appendix B.

The results of the grain size analysis are shown in **Table 3**. The grain analysis indicates that all four locations mainly consisted of sandy material and had comparable percentages of fine sediments as required by USACE guidance. The gravel fraction is the proportion of sediment retained by a #8 US Standard sieve. The sand fraction is the proportion of sediment passing through a #8 and retained by a #200 US Standard sieve. The silt-and-clay fraction is the proportion of sediment passing through a #200 US Standard sieve. All samples were found to be primarily sand with some gravel and minimal silt/clay. The 2024 dredge sample sites are comprised of 84.4 - 97.6% sand, 0-11% gravel, and 2.4 – 4.6% silt/clay. Nourishment site samples were found to be 92.7 – 96.4% sand, 3-7% gravel, and 0.3 – 0.6% silt/clay. The Earth Systems laboratory report, including particle size analysis data and sample gradation curves, are included in Appendix B.

Table 4. Grain size analysis results for 2024, 2019, and 2013.

| Site | 2024 | | | 2019 | | | 2013 | | |
|---------------------------|--------|-------|---------------|--------|-------|---------------|--------|-------|---------------|
| | Gravel | Sand | Silt and Clay | Gravel | Sand | Silt and Clay | Gravel | Sand | Silt and Clay |
| Sport Launch (PSL-1) | 11.0% | 84.4% | 4.6% | 0.0% | 97.1% | 2.9% | 1.0% | 94.9% | 4.1% |
| Mobile Hoist Pier (PSL-2) | 0.0% | 97.6% | 2.4% | 0.0% | 97.3% | 2.7% | 0.0% | 96.7% | 3.3% |
| Fisherman's Beach (DSP-1) | 3.0% | 96.4% | 0.6% | 0.0% | 98.9% | 1.1% | 0.0% | 98.0% | 2% |
| West Bluff Beach (DSP-2) | 7.0% | 92.7% | 0.3% | 1.0% | 98.2% | 0.8% | 6.0% | 92.6% | 1.4% |

Chemical analysis results are shown in **Table 5**. Many constituents did not have a listed ERL and/or ERM. There are six constituents whose laboratory detection limits are higher than the published NOAA ERL, indicated by an asterisk in **Table 5**. These six constituents are: dieldrin, acenaphthene, acenaphthylene, anthracene, fluorene, and, 2-Methylnaphthalene. Samples of constituents resulted in detection levels that were well below the listed ERM; none of the samples were found to exceed the NOAA ERL or ERM (USACE 2021).



Table 5. Results of laboratory analysis of chemical constituents and Effects Range Low (ERL) and Effects Range Medium (ERM) guidelines (USACE 2021). Results below the ERL are indicated in green; above the ERL indicated in red (none present).

| Constituent | Method | Detection limit ¹ (ug/kg) | PSL-1 Sport Launch (ug/kg) | PSL-2 Mobile Hoist (ug/kg) | ERL ² (ug/kg) | ERM ³ (ug/kg) |
|-----------------------------------|-------------|--------------------------------------|----------------------------|----------------------------|--------------------------|--------------------------|
| Conventionals | | | | | | |
| Non-polar oil and grease (TRPH) | EPA 1664B | 278,000 | ND | ND | | |
| Oil and grease | EPA 1664M | 278,000 | ND | ND | | |
| Sulfides, Total | EPA 376.2 | 1,100 | 14,400 | 17,400 | | |
| Metals | | | | | | |
| Arsenic (As) | EPA 6010B | 2,000 | ND | ND | 8,200 | 70,000 |
| Cadmium (Cd) | EPA 6010B | 300 | ND | ND | 1,200 | 9,600 |
| Chromium (Cr) | EPA 6010B | 500 | 17,500 | 16,900 | 81,000 | 370,000 |
| Copper (Cu) | EPA 6010B | 500 | 6,000 | 3,800 | 34,000 | 270,000 |
| Lead (Pb) | EPA 6010B | 1,000 | 1,000 | 1,000 | 46,700 | 218,000 |
| Mercury (Hg) | SW846 7471A | 7 | 61 | 74 | 150 | 710 |
| Nickel (Ni) | EPA 6010B | 300 | 12,400 | 12,700 | 20,900 | 51,600 |
| Selenium (Se) | EPA 6010B | 300 | ND | ND | | |
| Silver (Ag) | EPA 6010B | 1,000 | ND | ND | 1,000 | 3,700 |
| Zinc (Zn) | EPA 6010B | 500 | 12,300 | 12,100 | 150,000 | 410,000 |
| Organo-Chlorine Pesticides | | | | | | |
| 4,4'-DDD | EPA 8081A | 0.88 | ND | ND | 2 | 20 |
| 4,4'-DDE | EPA 8081A | 0.39 | ND | ND | 2.2 | 27 |
| 4,4'-DDT | EPA 8081A | 0.82 | ND | ND | 1 | 7 |
| Aldrin | EPA 8081A | 0.39 | ND | ND | | |
| Alpha-BHC | EPA 8081A | 0.53 | ND | ND | | |
| Beta-BHC | EPA 8081A | 0.38 | ND | ND | | |
| Delta-BHC | EPA 8081A | 0.59 | ND | ND | | |
| Dieldrin | EPA 8081A | 0.41 | ND* | ND* | 0.02 | 8 |
| Endosulfan I | EPA 8081A | 0.43 | ND | ND | | |
| Endosulfan II | EPA 8081A | 0.76 | ND | ND | | |
| Endosulfan sulfate | EPA 8081A | 0.73 | ND | ND | | |



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| Constituent | Method | Detection limit ¹ (ug/kg) | PSL-1 Sport Launch (ug/kg) | PSL-2 Mobile Hoist (ug/kg) | ERL ² (ug/kg) | ERM ³ (ug/kg) |
|-----------------------|----------------|--------------------------------------|----------------------------|----------------------------|--------------------------|--------------------------|
| Endrin | EPA 8081A | 0.39 | ND | ND | | |
| Endrin aldehyde | EPA 8081A | 0.71 | ND | ND | | |
| Endrin ketone | EPA 8081A | 0.86 | ND | ND | | |
| Heptachlor | EPA 8081A | 0.35 | ND | ND | | |
| Heptachlor epoxide | EPA 8081A | 0.36 | ND | ND | | |
| Methoxychlor | EPA 8081A | 0.71 | ND | ND | | |
| Toxaphene | EPA 8081A | 13.4 | ND | ND | | |
| Gamma-BHC (Lindane) | EPA 8081A | 0.44 | ND | ND | | |
| Chlordane (Technical) | EPA 8081A | 0.44 | ND | ND | | |
| Organotins | | | | | | |
| Tetrabutyltin | Organotins SIM | 2.3 | 2.3 | ND | | |
| Tributyltin | Organotins SIM | 2.0 | ND | ND | | |
| Dibutyltin | Organotins SIM | 1.8 | ND | ND | | |
| Monobutyltin | Organotins SIM | 0.76 | ND | ND | | |
| PCBs | | | | | | |
| PCB-18 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-28 | 8270C SIM CON | 0.14 | ND | ND | | |
| PCB-37 | 8270C SIM CON | 0.11 | ND | ND | | |
| PCB-44 | 8270C SIM CON | 0.17 | ND | ND | | |
| PCB-49 | 8270C SIM CON | 0.16 | ND | ND | | |
| PCB-52 | 8270C SIM CON | 0.11 | ND | ND | | |
| PCB-66 | 8270C SIM CON | 0.16 | 0.20 | ND | | |
| PCB-70 | 8270C SIM CON | 0.13 | 0.29 | ND | | |
| PCB-74 | 8270C SIM CON | 0.15 | ND | ND | | |
| PCB-77 | 8270C SIM CON | 0.14 | ND | ND | | |
| PCB-81 | 8270C SIM CON | 0.12 | ND | ND | | |
| PCB-87 | 8270C SIM CON | 0.18 | 0.26 | ND | | |
| PCB-99 | 8270C SIM CON | 0.12 | 0.39 | ND | | |
| PCB-101 | 8270C SIM CON | 0.15 | 0.27 | ND | | |
| PCB-105 | 8270C SIM CON | 0.15 | ND | ND | | |



| Constituent | Method | Detection limit ¹ (ug/kg) | PSL-1 Sport Launch (ug/kg) | PSL-2 Mobile Hoist (ug/kg) | ERL ² (ug/kg) | ERM ³ (ug/kg) |
|---|---------------|--------------------------------------|----------------------------|----------------------------|--------------------------|--------------------------|
| PCB-110 | 8270C SIM CON | 0.13 | 0.19 | ND | | |
| PCB-114 | 8270C SIM CON | 0.15 | ND | ND | | |
| PCB-118 | 8270C SIM CON | 0.11 | 0.14 | ND | | |
| PCB-119 | 8270C SIM CON | 0.18 | ND | ND | | |
| PCB-123 | 8270C SIM CON | 0.14 | ND | ND | | |
| PCB-126 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-128 | 8270C SIM CON | 0.20 | ND | ND | | |
| PCB-132/153 | 8270C SIM CON | 0.34 | 0.36 | ND | | |
| PCB-138/158 | 8270C SIM CON | 0.35 | ND | ND | | |
| PCB-149 | 8270C SIM CON | 0.15 | ND | ND | | |
| PCB-151 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-156 | 8270C SIM CON | 0.14 | ND | ND | | |
| PCB-157 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-167 | 8270C SIM CON | 0.16 | ND | ND | | |
| PCB-168 | 8270C SIM CON | 0.15 | ND | ND | | |
| PCB-169 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-170 | 8270C SIM CON | 0.15 | ND | ND | | |
| PCB-177 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-180 | 8270C SIM CON | 0.12 | ND | ND | | |
| PCB-183 | 8270C SIM CON | 0.17 | ND | ND | | |
| PCB-187 | 8270C SIM CON | 0.13 | ND | ND | | |
| PCB-189 | 8270C SIM CON | 0.11 | ND | ND | | |
| PCB-194 | 8270C SIM CON | 0.16 | ND | ND | | |
| PCB-201 | 8270C SIM CON | 0.20 | ND | ND | | |
| PCB-206 | 8270C SIM CON | 0.16 | ND | ND | | |
| Total PCBs | 8270C SIM CON | 0.34 | 2.3 | ND | 22.7 | 180 |
| Polynuclear Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthene | SW846 8270C | 132 | ND* | ND* | 16 | 500 |
| Acenaphthylene | SW846 8270C | 142 | ND* | ND* | 44 | 640 |
| Anthracene | SW846 8270C | 99 | ND* | ND* | 85.8 | 1100 |



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| Constituent | Method | Detection limit ¹ (ug/kg) | PSL-1 Sport Launch (ug/kg) | PSL-2 Mobile Hoist (ug/kg) | ERL ² (ug/kg) | ERM ³ (ug/kg) |
|-----------------------|-------------|--------------------------------------|----------------------------|----------------------------|--------------------------|--------------------------|
| Benzo(a)anthracene | SW846 8270C | 56 | ND | ND | 261 | 1600 |
| Benzo(a)pyrene | SW846 8270C | 47 | ND | ND | 430 | 1600 |
| Benzo(b)fluoranthene | SW846 8270C | 62 | ND | ND | | |
| Benzo(ghi)perylene | SW846 8270C | 31 | ND | ND | | |
| Benzo(k)fluoranthene | SW846 8270C | 51 | ND | ND | | |
| Chrysene | SW846 8270C | 58 | ND | ND | 384 | 2800 |
| Dibenz(a,h)anthracene | SW846 8270C | 46 | ND | ND | 63.4 | 260 |
| Fluoranthene | SW846 8270C | 155 | ND | ND | 600 | 5100 |
| Fluorene | SW846 8270C | 160 | ND* | ND* | 19 | 540 |
| Indo(1,2,3-cd)pyrene | SW846 8270C | 52 | ND | ND | | |
| Naphthalene | SW846 8270C | 139 | ND | ND | 160 | 2100 |
| Phenanthrene | SW846 8270C | 107 | ND | ND | 240 | 1500 |
| Pyrene | SW846 8270C | 153 | ND | ND | 665 | 2600 |
| 1-Methylnaphthalene | SW846 8270C | 176 | ND | ND | | |
| 2-Methylnaphthalene | SW846 8270C | 222 | ND* | ND* | 70 | 670 |

¹ Detection limits vary by parameter and test. Either Method Detection Limit (MDL), or where MDL is absent, Reporting Limit (RL). Highest value is listed for MDL or RL when value differs between PSL-1 and PSL-2 result. See laboratory reports in appendices.

² ERL = NOAA Effects Range Low values, the published levels in which concentrations below the ERL rarely have adverse biological effects (USACE 2021). Lowest ERL values are listed for broad category constituents.

³ ERM= NOAA Effects Range Medium, concentrations above which effects frequently occur (USACE 2021). Lowest ERM values are listed for broad category constituents.

ND = Non-Detect. The result is lower than the Detection Limit.

* Results which have Detection Limits higher than the ERL.



7.0 Discussion

The Sport Launch and Mobile Hoist Pier proposed dredge locations are exposed coastal locations subject to wind-, wave- and tide-driven circulation within San Luis Bay. The persistent circulation of water, regular dredging activity, and the very low percentage of fine grain (silt-and-clay) particles results in a very low likelihood of contaminant accumulation at these locations. The Sport Launch is the most likely location to experience a risk of contaminant accumulation due to the high levels of recreational boating activity at this location. Furthermore, the short artificial breakwater that protects the Sport Launch basin would be expected to reduce water circulation and subsequently increase retention times for contaminants and smaller grain particles. Increasing contaminant residence times increases the potential for the accumulation of fine grain sediments and of contaminants that bind more readily with grains of smaller sizes. However, it is apparent from the grain size analysis that the breakwater does not result in detectable increase of fine grain sediments (silt-and-clay) at this site. Instead, the grain size analysis indicates that the material at the Sport Launch, Mobile Hoist Pier and the adjacent beach locations are very similar. The material collected was predominantly sandy sediments with very small proportions of silt-and-clay and even less gravel. It is highly likely that the material accumulating in the Sport Launch and Mobile Hoist Pier basins between periods of regular annual dredging originate from the adjacent beach areas.

Grain size results, are compared between the dredge sites and the proposed dredge nourishment sites. The sand content and grain size distribution are compared to distinguish compatibility between the sites. The grain size results indicate that the material at the Sport Launch, Mobile Hoist Pier and the adjacent beach locations are similar (**Figure 5**). All material collected was predominantly sandy sediments with small proportions of gravel and minimal silts/clays.



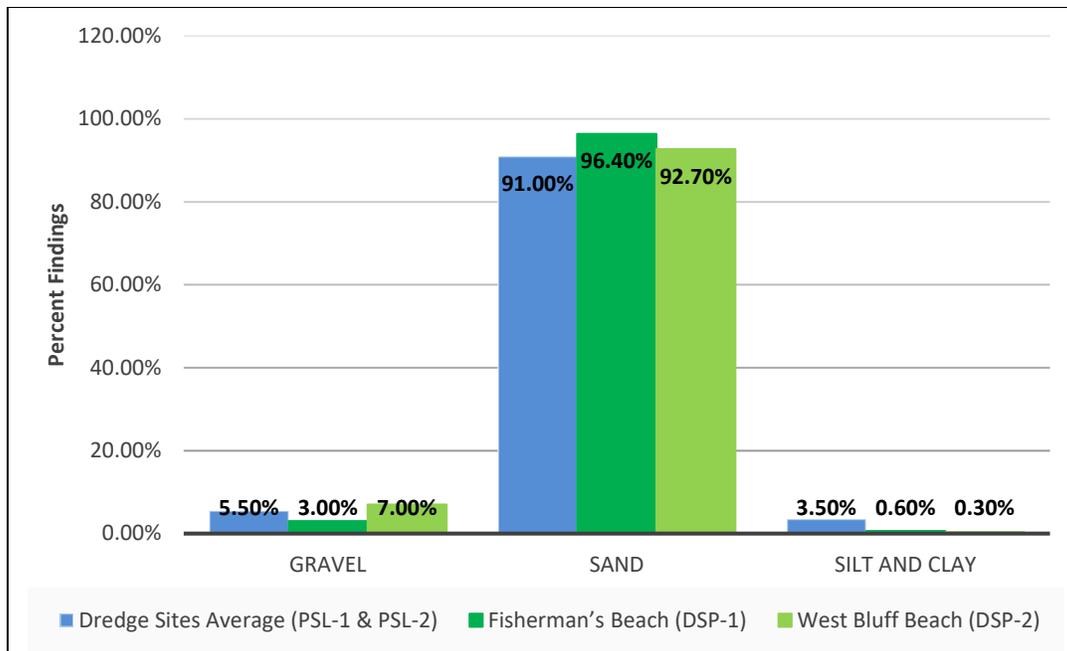


Figure 5. Grain size findings of Dredge Sites averaged together (blue) and Nourishment Sites (light and dark green).

The grain size results align with findings in the last two previous studies conducted in 2019 and 2013. Similar sediment ratios are found across all four stations for all three studies. It is highly likely that the material accumulating in the Sport Launch and Mobile Hoist Pier basins between periods of regular annual dredging originate from the adjacent beach areas (refer to **Figure 4**). The slightly elevated gravel results found in 2024 at PSL-1 and DSP-2 may be due to recent storm events carrying courser gravel onshore and higher intensity waves from storm surge causing acute, but rapid shoreline erosion.

Chemistry analysis of the dredge samples (PSL-1 and PSL-2) showed the majority of results were Non-Detect (ND) and none exceeded USACE environmental thresholds (ERL or ERM), indicating likely no potential for environmental harm based on those measures. Six constituents, all with ND results, had laboratory detection levels higher than the ERL. These constituents (dieldrin, acenaphthene, acenaphthylene, anthracene, 2-Methylnaphthalene, and fluorene) are inconclusive as to whether the result was below the ERL threshold. These constituents are PAHs with the exception of dieldrin, an Organo-Chlorine Pesticide. The laboratory method of analysis followed the listed method in the 2021 USACE SAP/R Guidance document (USACE 2021). For all six constituents, detection levels were well below the ERM. The ERL is the lowest threshold limit and therefore the most conservative measure of potential harm.

Contaminants bind more readily with grains of smaller sizes. The sandy nature of the sediments at both the Sport Launch and Mobile Hoist Pier locations reduces the likelihood of accumulation of contaminants that may enter the water due to activities in and around these port facilities. The results indicate that the sediments are relatively clean of contaminants.



8.0 Literature Cited

- EPA. 1995. *QC/QA Guidance for Sampling and Analysis of Sediments, Water, and Tissues for Dredged Material Evaluations – Chemical Evaluations*. EPA-823-B-95- 001.
- EPA. 1998. *Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. – Testing Manual – Inland Testing Manual*. EPA-823-B-98-004.
- NOAA. 2024. *Tides and Currents*. Website accessed on 2.22.2024:
<https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=9412110&units=standard&bdate=20240215&edate=20240215&timezone=LST/LDT&clock=12hour&datum=MLLW&interval=6&action=data>
- Tenera. 2019. *Sediment Sampling and Analysis Report in Support of 2019 Dredge Permit Application*. Prepared for Port San Luis Harbor District. 17 p. plus appendices.
- US Army Corps of Engineers (USACE). 2021. *Sampling and Analysis Plan/Results (SAP/R) Guidance (SAPRG)*.



Appendix A

Field Datasheet



2024 Port San Luis Sediment Sampling field datasheet

| date | time (PST) | station name (PSL-1, PSL-2) | core # (I, II, III) | latitude | longitude | water depth (ft) | notes |
|---------|------------|--------------------------------|------------------------|-------------|--------------|------------------------|--|
| 2/15/24 | 09:30 | DSP-1 DSP-2 | III | 35° 10.240' | 120° 45.370' | 0 | southern point |
| | 09:29 | DSP-2 | II | 35° 10.237' | 120° 45.373' | 0 | middle point |
| | 09:28 | DSP-2 | I | 35° 10.234' | 120° 45.376' | 0 | Northern point |
| | 09:52 | DSP-1 | I | 35° 10.460' | 120° 45.311' | 0 | |
| | 09:53 | DSP-1 | II | 35° 10.463' | 120° 45.304' | 0 | |
| | 09:54 | DSP-1 | III | 35° 10.465' | 120° 45.300' | 0 | |
| | 10:32 | PSL-2 | I | 35° 10.301' | 120° 45.328' | 5 | right under loading dock |
| | 10:49 | PSL-2 | II | 35° 10.303' | 120° 45.325' | 5 | |
| | 10:55 | PSL-2 | III | 35° 10.299' | 120° 45.305' | 10 | 30m out from loading dock |
| | 11:27 | PSL-1 | I | 35° 10.357' | 120° 45.330' | 6 | near launch ramp, coarse gravel on surface |
| | 11:40 | PSL-1 | II | 35° 10.344' | 120° 45.332' | 8 | |
| | 11:50 | PSL-1 | III | 35° 10.370' | 120° 45.314' | 11 | Near hose by exposed bedrock |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

11:50 PM
16

Appendix B

Laboratory Reports

- B1. Earth Systems Laboratory Report – Grain Size*
- B2. FGL Laboratory Report – Metals*
- B3. FGL Laboratory Report - Oil and Grease, Organo-Pesticides, PAHs, and Mercury*
- B4. FGL Laboratory Report - Sulfide*
- B5. Eurofins Laboratory Report - PCBs and Organotins*





EARTH SYSTEMS

4378 Santa Fe Road | San Luis Obispo, CA 93401 | (805) 544-3276 | www.earthsystems.com

February 22, 2024

Mr. Joe Phelan, PhD
Tenera Environmental
141 Suburban Road, Suite A-2
San Luis Obispo, CA 93401

File No.: 302938-001
Doc. No.: 2402-015.LAB

PROJECT: TENERA ENVIRONMENTAL - OPEN TESTING FILE
PORT SAN LUIS HARBOR DISTRICT PROJECT

SUBJECT: Particle Size Analysis

SAMPLED BY: Representative of Tenera Environmnetal on 2/15/2024

Attached are the laboratory test results that you requested. We appreciate the opportunity to have provided services for this project and look forward to working with you in the future. If there are any questions concerning this letter, please do not hesitate to contact this office.

Earth Systems Pacific

Tim Robison
Staff Engineer

Attachments: Particle Size Analysis (4 Pages)



PARTICLE SIZE ANALYSIS

ASTM D 422-63/07; D 1140-017

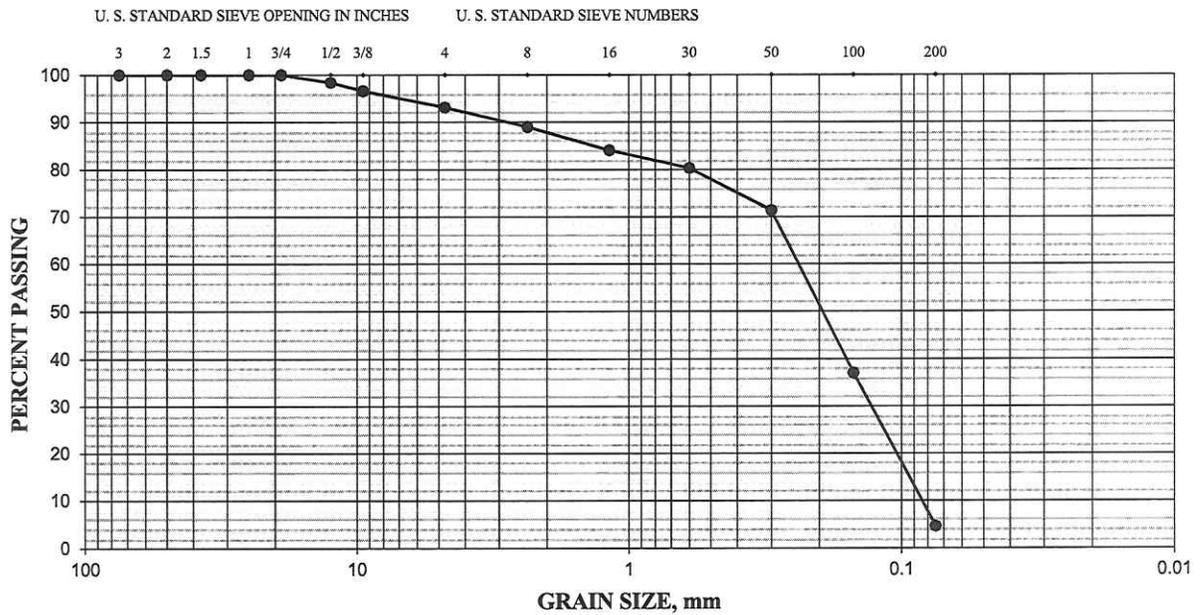
Sample ID: PSL - 1

February 22, 2024

Poorly Graded Sand (SP)

Cu = 2.8; Cc = 0.8

| Sieve size | % Retained | % Passing |
|---------------------|------------|-----------|
| 3/4" (19-mm) | 0 | 100 |
| 1/2" (12.5-mm) | 2 | 98 |
| 3/8" (9.5-mm) | 3 | 97 |
| #4 (4.75-mm) | 7 | 93 |
| #8 (2.36-mm) | 11 | 89 |
| #16 (1.18-mm) | 16 | 84 |
| #30 (600- μ m) | 20 | 80 |
| #50 (300- μ m) | 29 | 71 |
| #100 (150- μ m) | 63 | 37 |
| #200 (75- μ m) | 95 | 4.6 |





PARTICLE SIZE ANALYSIS

ASTM D 422-63/07; D 1140-017

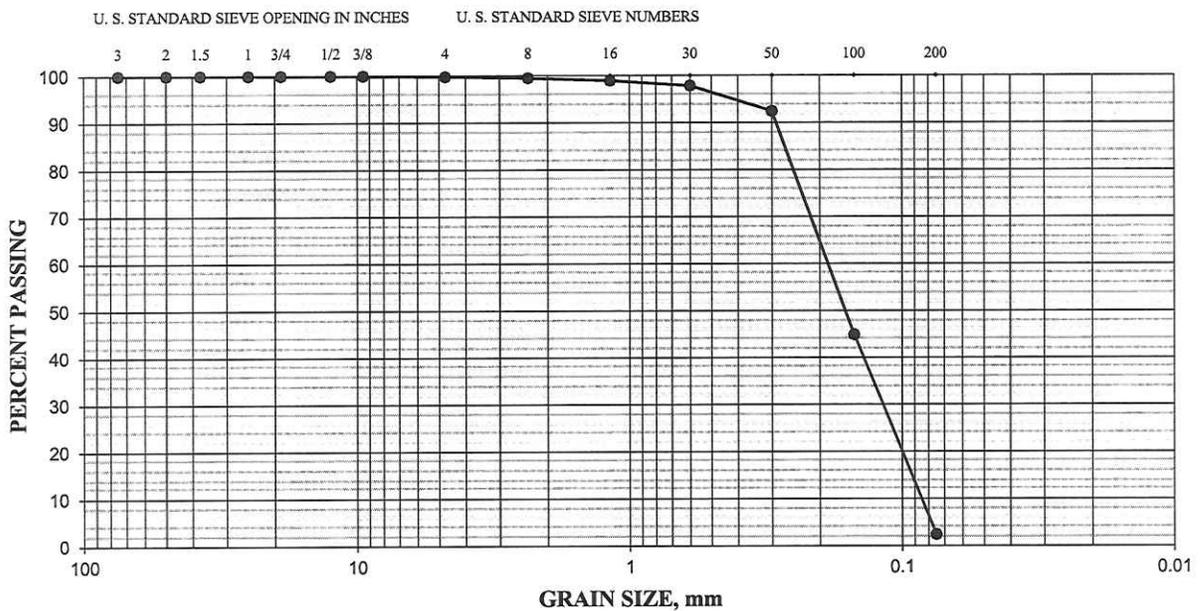
Sample ID: PSL - 2

February 22, 2024

Poorly Graded Sand (SP)

Cu = 2.2; Cc = 0.9

| Sieve size | % Retained | % Passing |
|---------------------|------------|-----------|
| #8 (2.36-mm) | 0 | 100 |
| #16 (1.18-mm) | 1 | 99 |
| #30 (600- μ m) | 2 | 98 |
| #50 (300- μ m) | 8 | 92 |
| #100 (150- μ m) | 55 | 45 |
| #200 (75- μ m) | 98 | 2.4 |





PARTICLE SIZE ANALYSIS

ASTM D 422-63/07; D 1140-017

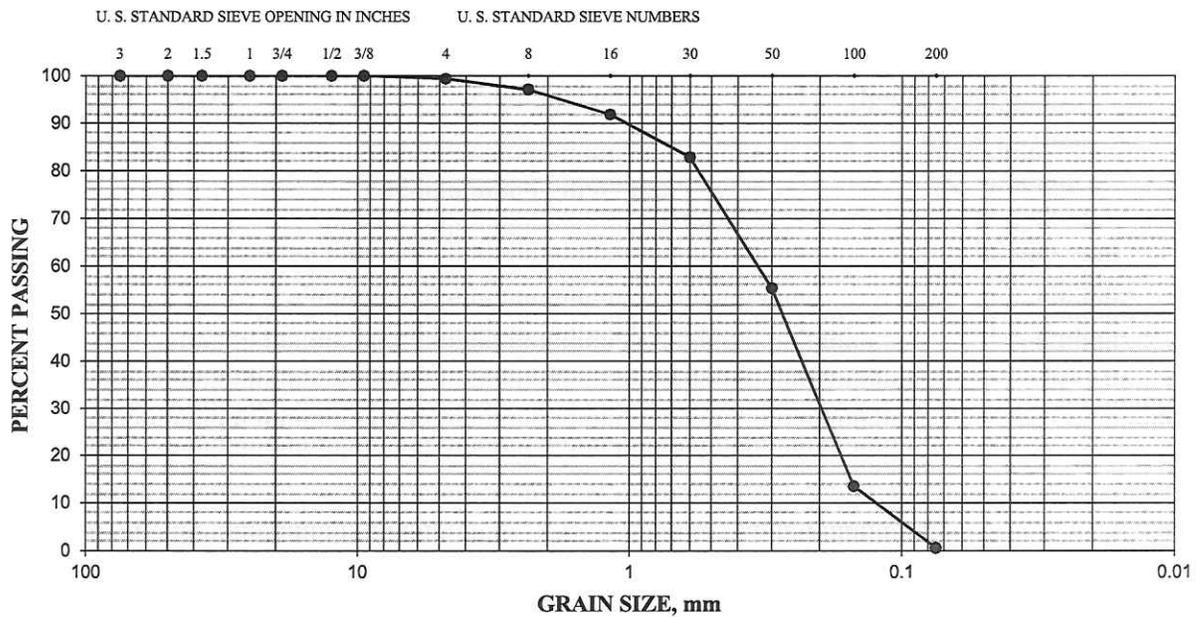
Sample ID: DSP - 1

February 22, 2024

Poorly Graded Sand (SP)

Cu = 2.7; Cc = 0.9

| Sieve size | % Retained | % Passing |
|---------------------|------------|-----------|
| 3/8" (9.5-mm) | 0 | 100 |
| #4 (4.75-mm) | 1 | 99 |
| #8 (2.36-mm) | 3 | 97 |
| #16 (1.18-mm) | 8 | 92 |
| #30 (600- μ m) | 17 | 83 |
| #50 (300- μ m) | 45 | 55 |
| #100 (150- μ m) | 86 | 14 |
| #200 (75- μ m) | 99 | 0.6 |





PARTICLE SIZE ANALYSIS

ASTM D 422-63/07; D 1140-017

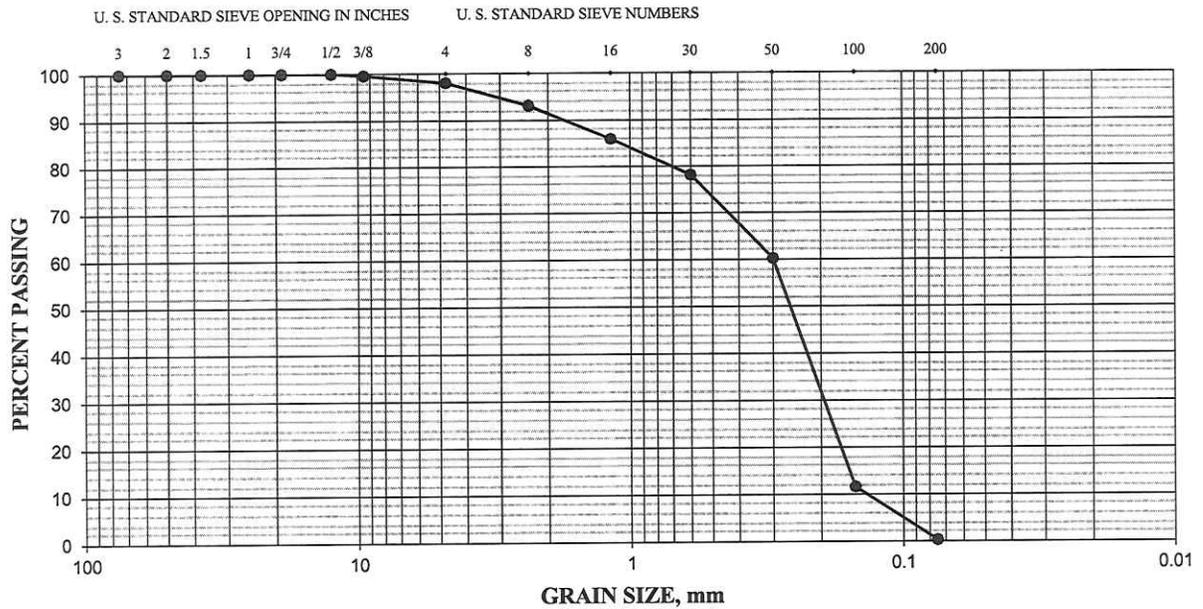
Sample ID: DSP - 2

February 22, 2024

Poorly Graded Sand (SP)

Cu = 2.2; Cc = 0.9

| Sieve size | % Retained | % Passing |
|---------------------|------------|-----------|
| 3/8" (9.5-mm) | 0 | 100 |
| #4 (4.75-mm) | 2 | 98 |
| #8 (2.36-mm) | 7 | 93 |
| #16 (1.18-mm) | 14 | 86 |
| #30 (600- μ m) | 22 | 78 |
| #50 (300- μ m) | 40 | 60 |
| #100 (150- μ m) | 88 | 12 |
| #200 (75- μ m) | 100 | 0.3 |



March 5, 2024

Lab No. : CC 2480672

Tenera Environmental
 141 Suburban Rd., Suite A2
 San Luis Obispo, CA 93401

Customer No. : 8000769

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

- Case Narrative (1 page) : An overview of the work performed at FGL.
- Sample Results (2 pages) : Results for each sample submitted.
- Quality Control (2 pages) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab No. | Matrix |
|--------------------|--------------|---------------|----------------|--------|
| PSL - 1 | 02/15/2024 | 02/16/2024 | CC 2480672-001 | SLD |
| PSL - 2 | 02/15/2024 | 02/16/2024 | CC 2480672-002 | SLD |

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 6010 B Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: SMH

Approved By **Kelly A. Dunnahoo, B.S.**

 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2024-03-05

March 5, 2024

Tenera Environmental
 141 Suburban Rd., Suite A2
 San Luis Obispo, CA 93401

Description : PSL - 1
 Project : Port San Luis Sediment

Lab No. : CC 2480672-001
 Customer No. : 8000769

Sampled On : February 15, 2024 at 11:27
 Sampled By : Client
 Received On : February 16, 2024 at 16:20
 Matrix : Solid

Sample Results - Inorganic

| Constituent | Result | RL | Units | Note | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | | |
|----------------------|--------|-----|-------|------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|--|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who | |
| Metals, Total | | | | | | | | | | | | | | |
| Arsenic | ND | 2 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/04/2024 | 11:05 | ac | |
| Cadmium | ND | 0.3 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Chromium | 17.5 | 0.5 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Copper | 6.0 | 0.5 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Lead | 1 | 1 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Nickel | 12.4 | 0.3 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Selenium | ND | 0.3 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |
| Silver | ND | 1 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/04/2024 | 11:05 | ac | |
| Zinc | 12.3 | 0.5 | mg/kg | | 1 | lp | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:38 | ac | |

DQF Flags Definition:

- U Constituent results were non-detect.
- l The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



March 5, 2024

Tenera Environmental
141 Suburban Rd., Suite A2
San Luis Obispo, CA 93401

Description : PSL - 2
Project : Port San Luis Sediment

Lab No. : CC 2480672-002
Customer No. : 8000769

Sampled On : February 15, 2024 at 10:32
Sampled By : Client
Received On : February 16, 2024 at 16:20
Matrix : Solid

Sample Results - Inorganic

| Constituent | Result | RL | Units | Note | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | | | |
|----------------------|--------|-----|-------|------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|--|--|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who | | |
| Metals, Total | | | | | | | | | | | | | | | |
| Arsenic | ND | 2 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/04/2024 | 11:11 | ac | | |
| Cadmium | ND | 0.3 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Chromium | 16.9 | 0.5 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Copper | 3.8 | 0.5 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Lead | 1 | 1 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Nickel | 12.7 | 0.3 | mg/kg | | 1 | | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Selenium | ND | 0.3 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |
| Silver | ND | 1 | mg/kg | | 1 | U | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/04/2024 | 11:11 | ac | | |
| Zinc | 12.1 | 0.5 | mg/kg | | 1 | lp | 03/01/2024 | 10:00 | ac | EPA 6010 B | 03/02/2024 | 09:45 | ac | | |

DQF Flags Definition:

- U Constituent results were non-detect.
- l The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



March 5, 2024

Tenera Environmental

Lab No. : CC 2480672

Customer No. : 8000769

Quality Control - Metals

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|--------------------------|--------|---|-------|-------|-------|---------|--------|------|
| Metals Arsenic | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <2 | |
| | | | LCS | mg/kg | 40.00 | 97.1% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 112% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 107% | 75-125 | |
| | | | MSRPD | mg/kg | | 4.9% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 104% | 75-125 | |
| Cadmium | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <0.3 | |
| | | | LCS | mg/kg | 40.00 | 94.4% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 107% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 104% | 75-125 | |
| | | | MSRPD | mg/kg | | 2.8% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 104% | 75-125 | |
| Chromium | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <0.5 | |
| | | | LCS | mg/kg | 40.00 | 103% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 113% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 111% | 75-125 | |
| | | | MSRPD | mg/kg | | 1.5% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 111% | 75-125 | |
| Copper | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <0.5 | |
| | | | LCS | mg/kg | 40.00 | 109% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 88.8% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 86.7% | 75-125 | |
| | | | MSRPD | mg/kg | | 0.7% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 89.1% | 75-125 | |
| Lead | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <1 | |
| | | | LCS | mg/kg | 40.00 | 101% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 116% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 112% | 75-125 | |
| | | | MSRPD | mg/kg | | 3.3% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 110% | 75-125 | |
| Nickel | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <0.3 | |
| | | | LCS | mg/kg | 40.00 | 101% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 113% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 110% | 75-125 | |
| | | | MSRPD | mg/kg | | 2.1% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 110% | 75-125 | |
| Selenium | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <0.3 | |
| | | | LCS | mg/kg | 40.00 | 96.9% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 94.2% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 85.0% | 75-125 | |
| | | | MSRPD | mg/kg | | 10.0% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 89.2% | 75-125 | |
| Silver | 3050 | 03/01/2024:202395AC (CC 2480563-001) | Blank | mg/kg | | ND | <1 | |
| | | | LCS | mg/kg | 40.00 | 96.2% | 85-115 | |
| | | | MS | mg/kg | 40.00 | 109% | 75-125 | |
| | | | MSD | mg/kg | 40.00 | 106% | 75-125 | |

Quality Control - Metals

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|-------------|--------|---------------------|-------|-------|-------|---------|--------|------|
| | | | MSRPD | mg/kg | | 2.9% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 107% | 75-125 | |
| Zinc | 3050 | 03/01/2024:202395AC | Blank | mg/kg | | ND | <0.5 | |
| | | | LCS | mg/kg | 40.00 | 93.2% | 85-115 | |
| | | (CC 2480563-001) | MS | mg/kg | 40.00 | 61.3% | 75-125 | 435 |
| | | | MSD | mg/kg | 40.00 | 57.9% | 75-125 | 435 |
| | | | MSRPD | mg/kg | | 1.1% | ≤20 | |
| | | | PDS | mg/kg | 40.00 | 58.8% | 75-125 | 430 |

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- PDS : PDS failed, matrix - Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was accepted based on the LCS recovery.

Explanation

- 430 : Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was accepted based on the LCS recovery.
- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

April 8, 2025

Tenera Environmental
141 Suburban Rd., Suite A2
San Luis Obispo, CA 93401

Subject: Amended Subcontract Analyses for FGL Lab No. CC 2480672

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Organic-Organochlorine Pesticides by EPA 8081
- Sub Contracted-Oil & Grease - Non-Polar by EPA 1664B
- Sub Contracted-Oil & Grease - by EPA 1664M
- Sub Contracted-(PAH) by 8270C
- Sub Contracted-Hg
- Amended to modify non-detect results designation from <RL to ND.

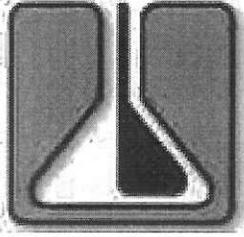
Please note that this analysis was performed by Zalco Laboratories, Inc.

Thank you for using FGL Environmental.

Sincerely,

Cindy Aguirre  Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2025-04-08

Enclosure



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

April 03, 2025

Cindy Aguirre

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060
RE: Master

Zalco Work Order: 2402370

Zalco Project:

Enclosed are the results of analyses for samples received by our laboratory on 2/22/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrea Magana", written in a cursive style.

Andrea Magana For Juan Magana
Laboratory Technical Manager

| Client: Fruit Grover's Laboratory, Inc. | | 80777:01/01/2024 | | BEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|------------------|--------------|--|----------------|--|--|--|---|--|--|-------------------------------|-------------------|------------------------|--|----------------------|--|--------------------|--|--------------|--|-------------------------|--|----------------------|--|--------------------|--|
| Address: FGL Environmental, Inc. 853 Corporation St. Santa Paula, CA 93060-3005 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: _____ | Fax: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Person: <u>Cindy Aguirre</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>CC21506722-(8-769)</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purchase Order Number: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quote Number: <u>CC 20190207-31</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler(s): | <u>Client</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampling Fee: _____ | Pickup Fee: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compositor Setup Date: ____/____/____ | Time: ____/____ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab Number: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Samp Num | Location Description | Date Sampled | Time Sampled | Method of Sampling: Composite(C) Grab(G) | Type of Sample | Potable(P) Non-Potable(NP) Ag Water(AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Organic-Organochlorine Pesticides by EPA 8081 | Sub Contracted-Oil & Grease - Non-Polar by EPA 1664B | Sub Contracted-Oil & Grease - by EPA 1664M | Sub Contracted-(PAH) by 8270C | Sub Contracted-Hg | | | | | | | | | | | | | | |
| 1 | PST - 1 | 2/15/24 | 12:27 | G | Slid | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| 2 | PST - 2 | 2/15/24 | 10:32 | G | Slid | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| Remarks: Results on a wet weight basis Spoke w/ Jurian @ FGL And informed her of broken kits. -AMC, 2/22/24 @ 1118 L.F.3C | | | | Relinquished | | Received By: <u>9/15</u> | | Date: <u>2/19/24</u> | | Time: <u>17:00</u> | | Relinquished | | Received By: <u>LR</u> | | Date: <u>2-20-24</u> | | Time: <u>12:35</u> | | Relinquished | | Received By: <u>AMC</u> | | Date: <u>2/22/24</u> | | Time: <u>10:57</u> | |

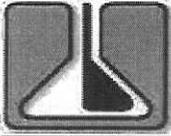
Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5318
Fax: (530) 343-3807

Office & Laboratory
3442 Empress Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

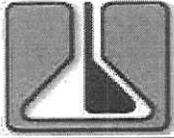
Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

Work Order Case Narrative

Sample results evaluated to the MDL.



**Zalco
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Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

Sample Results

Sample Name: PSL-1

Sampled Date - Time: 2/15/2024 11:27:00AM

Lab ID: 2402370-01

Matrix: Solid

Sample Type: Grab

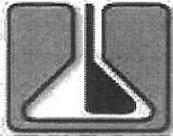
| Analyte | Result | Report Limit | MDL | Units | Dilution | Date Analyzed | Method | Analyst Initials | Qual |
|---|--------|--------------|--------|-----------|----------|---------------|-------------|------------------|------|
| Metals | | | | | | | | | |
| Mercury | 0.061 | 0.046 | 0.007 | mg/kg wet | 1 | 2/28/24 14:36 | SW846 7471A | SS | |
| Oil & Grease | | | | | | | | | |
| Oil & Grease | ND | 500 | 278 | mg/kg | 1 | 3/7/24 16:13 | EPA 1664 | JMM | |
| TRPH | ND | 500 | 278 | mg/kg | 1 | 3/7/24 16:13 | EPA 1664 | JMM | |
| Chlorinated Pesticides | | | | | | | | | |
| 4,4'-DDD | ND | 1.00 | 0.880 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| 4,4'-DDE | ND | 1.00 | 0.390 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| 4,4'-DDT | ND | 1.00 | 0.820 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Aldrin | ND | 1.00 | 0.390 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| alpha-BHC | ND | 1.00 | 0.530 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| beta-BHC | ND | 1.00 | 0.380 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| delta-BHC | ND | 1.00 | 0.590 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Dieldrin | ND | 1.00 | 0.410 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endosulfan I | ND | 1.00 | 0.430 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endosulfan II | ND | 1.00 | 0.760 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endosulfan sulfate | ND | 1.00 | 0.730 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endrin | ND | 1.00 | 0.390 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endrin aldehyde | ND | 1.00 | 0.710 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Endrin ketone | ND | 1.00 | 0.860 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Heptachlor | ND | 1.00 | 0.350 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Heptachlor epoxide | ND | 1.00 | 0.360 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Methoxychlor | ND | 1.00 | 0.710 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Toxaphene | ND | 100 | 13.4 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| gamma-BHC (Lindane) | ND | 1.00 | 0.440 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Chlordane | ND | 8.00 | 0.440 | ug/kg | 1 | 3/1/24 12:09 | SW846 8081A | JMM | |
| Surrogate: 2,4,5,6 Tetrachloro-m-xylene | 61.8% | | 18-133 | | | 3/1/24 12:09 | SW846 8081A | JMM | |
| Surrogate: Decachlorobiphenyl | 90.7% | | 0-238 | | | 3/1/24 12:09 | SW846 8081A | JMM | |

Polynuclear Aromatic Hydrocarbons

| | | | | | | | | | |
|----------------------|----|-------|-------|-------|---|--------------|-------------|-----|--|
| Acenaphthene | ND | 0.330 | 0.132 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Acenaphthylene | ND | 0.330 | 0.142 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Anthracene | ND | 0.330 | 0.099 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Benzo(a)anthracene | ND | 0.330 | 0.056 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Benzo(a)pyrene | ND | 0.330 | 0.047 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Benzo(b)fluoranthene | ND | 0.330 | 0.062 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Benzo(ghi)perylene | ND | 0.330 | 0.031 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Benzo(k)fluoranthene | ND | 0.330 | 0.051 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Chrysene | ND | 0.330 | 0.058 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

Sample Results

(Continued)

Sample Name: PSL-1 (Continued)

Sampled Date - Time: 2/15/2024 11:27:00AM

Lab ID: 2402370-01

Matrix: Solid

Sample Type: Grab

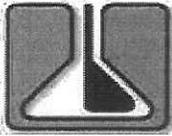
| Analyte | Result | Report Limit | MDL | Units | Dilution | Date Analyzed | Method | Analyst Initials | Qual |
|---------|--------|--------------|-----|-------|----------|---------------|--------|------------------|------|
|---------|--------|--------------|-----|-------|----------|---------------|--------|------------------|------|

Polynuclear Aromatic Hydrocarbons (Continued)

| | | | | | | | | | |
|------------------------|----|-------|-------|-------|---|--------------|-------------|-----|--|
| Dibenz(a,h)anthracene | ND | 0.330 | 0.046 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Fluoranthene | ND | 0.330 | 0.155 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Fluorene | ND | 0.330 | 0.160 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Indeno(1,2,3-cd)pyrene | ND | 0.330 | 0.052 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Naphthalene | ND | 0.330 | 0.139 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Phenanthrene | ND | 0.330 | 0.107 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Pyrene | ND | 0.330 | 0.153 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| 1-Methylnaphthalene | ND | 0.330 | 0.176 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| 2-Methylnaphthalene | ND | 0.330 | 0.222 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |

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Laboratories, Inc.**

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Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

Sample Results

(Continued)

Sample Name: PSL-2 (Continued)

Sampled Date - Time: 2/15/2024 10:32:00AM

Lab ID: 2402370-02

Matrix: Solid

Sample Type: Grab

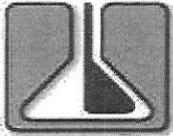
| Analyte | Result | Report Limit | MDL | Units | Dilution | Date Analyzed | Method | Analyst Initials | Qual |
|---------|--------|-----------------|-----|-------|----------|------------------|--------|---------------------|------|
|---------|--------|-----------------|-----|-------|----------|------------------|--------|---------------------|------|

Polynuclear Aromatic Hydrocarbons (Continued)

| | | | | | | | | | |
|------------------------|----|-------|-------|-------|---|--------------|-------------|-----|--|
| Dibenz(a,h)anthracene | ND | 0.330 | 0.046 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Fluoranthene | ND | 0.330 | 0.155 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Fluorene | ND | 0.330 | 0.160 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Indeno(1,2,3-cd)pyrene | ND | 0.330 | 0.052 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Naphthalene | ND | 0.330 | 0.139 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Phenanthrene | ND | 0.330 | 0.107 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| Pyrene | ND | 0.330 | 0.153 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| 1-Methylnaphthalene | ND | 0.330 | 0.176 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |
| 2-Methylnaphthalene | ND | 0.330 | 0.222 | mg/kg | 1 | 3/6/24 10:11 | SW846 8270C | JMM | |

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Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

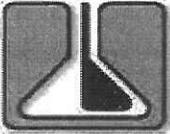
Quality Control

Metals

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------|-----------------|-----------|--------------------------------|---------------|------|-------------|------|-----------|
| Batch: 4B00714 - EPA 7471A Prep | | | | | | | | | | |
| Blank (4B00714-BLK1) | | | | | | | | | | |
| Mercury | ND | | 0.050 | mg/kg wet | | | | | | |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |
| LCS (4B00714-BS1) | | | | | | | | | | |
| Mercury | 4.9 | | | ug/L | 5.00 | | 97.4 | 80-120 | | |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |
| Duplicate (4B00714-DUP1) | | | | | | | | | | |
| Mercury | 0.017 | QM-04 | 0.049 | mg/kg wet | | 0.30 | | | 179 | 20 |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |
| Matrix Spike (4B00714-MS1) | | | | | | | | | | |
| Mercury | 5.4 | | | ug/L | 5.00 | 0.83 | 91.4 | 80-120 | | |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |
| Matrix Spike Dup (4B00714-MSD1) | | | | | | | | | | |
| Mercury | 5.6 | | | ug/L | 5.00 | 0.86 | 95.5 | 80-120 | 4.31 | 20 |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |
| Reference (4B00714-SRM1) | | | | | | | | | | |
| Mercury | 4.2 | | | ug/L | 5.00 | | 84.3 | 0-200 | | |
| | | | | | Prepared & Analyzed: 2/28/2024 | | | | | |

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853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

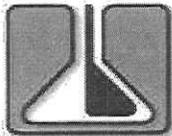
**Quality Control
(Continued)**

Oil & Grease

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|---------------------------|-------|--|---------------|------|-------------|-----|-----------|
| Batch: 4C00206 - Default Prep GC-Semi | | | | | | | | | | |
| Blank (4C00206-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 2/29/2024 Analyzed: 3/7/2024 | | | | | |
| Oil & Grease | ND | | 50.0 | mg/kg | | | | | | |
| TRPH | ND | | 50.0 | mg/kg | | | | | | |
| LCS (4C00206-BS1) | | | | | | | | | | |
| | | | | | Prepared: 2/29/2024 Analyzed: 3/7/2024 | | | | | |
| Oil & Grease | 35.1 | | 50.0 | mg/kg | 40.0 | | 87.8 | 70-130 | | |
| TRPH | 6.30 | | 50.0 | mg/kg | 40.0 | | 15.8 | 70-130 | | |
| Matrix Spike (4C00206-MS1) | | | | | | | | | | |
| | | | Source: 2402370-01 | | Prepared: 2/29/2024 Analyzed: 3/7/2024 | | | | | |
| Oil & Grease | 35.8 | | 50.0 | mg/kg | 40.0 | ND | 89.5 | 70-130 | | |
| TRPH | 5.90 | | 50.0 | mg/kg | 40.0 | ND | 14.8 | 70-130 | | |
| Matrix Spike Dup (4C00206-MSD1) | | | | | | | | | | |
| | | | Source: 2402370-01 | | Prepared: 2/29/2024 Analyzed: 3/7/2024 | | | | | |
| Oil & Grease | 37.7 | | 50.0 | mg/kg | 40.0 | ND | 94.2 | 70-130 | | 20 |
| TRPH | 5.90 | | 50.0 | mg/kg | 40.0 | ND | 14.8 | 70-130 | | 20 |

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Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

**Quality Control
(Continued)**

Chlorinated Pesticides

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: 4C00092 - EPA 3550B

Blank (4C00092-BLK1)

Prepared: 2/23/2024 Analyzed: 3/1/2024

| | | | | | | | | | | |
|---|----|--|------|-------|------|--|------|--------|--|--|
| 4,4'-DDD | ND | | 1.00 | ug/kg | | | | | | |
| 4,4'-DDE | ND | | 1.00 | ug/kg | | | | | | |
| 4,4'-DDT | ND | | 1.00 | ug/kg | | | | | | |
| Aldrin | ND | | 1.00 | ug/kg | | | | | | |
| alpha-BHC | ND | | 1.00 | ug/kg | | | | | | |
| beta-BHC | ND | | 1.00 | ug/kg | | | | | | |
| delta-BHC | ND | | 1.00 | ug/kg | | | | | | |
| Dieldrin | ND | | 1.00 | ug/kg | | | | | | |
| Endosulfan I | ND | | 1.00 | ug/kg | | | | | | |
| Endosulfan II | ND | | 1.00 | ug/kg | | | | | | |
| Endosulfan sulfate | ND | | 1.00 | ug/kg | | | | | | |
| Endrin | ND | | 1.00 | ug/kg | | | | | | |
| Endrin aldehyde | ND | | 1.00 | ug/kg | | | | | | |
| Endrin ketone | ND | | 1.00 | ug/kg | | | | | | |
| Heptachlor | ND | | 1.00 | ug/kg | | | | | | |
| Heptachlor epoxide | ND | | 1.00 | ug/kg | | | | | | |
| Methoxychlor | ND | | 1.00 | ug/kg | | | | | | |
| Toxaphene | ND | | 100 | ug/kg | | | | | | |
| gamma-BHC (Lindane) | ND | | 1.00 | ug/kg | | | | | | |
| Chlordane | ND | | 8.00 | ug/kg | | | | | | |
| Surrogate: 2,4,5,6 Tetrachloro-m-xylene | | | 5.03 | ug/kg | 8.33 | | 60.3 | 18-133 | | |
| Surrogate: Decachlorobiphenyl | | | 7.78 | ug/kg | 8.33 | | 93.3 | 0-238 | | |

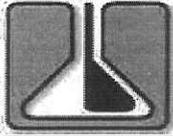
LCS (4C00092-BS1)

Prepared: 2/23/2024 Analyzed: 3/1/2024

| | | | | | | | | | | |
|---|------|--|------|-------|------|--|------|--------|--|--|
| 4,4'-DDT | 25.7 | | 1.00 | ug/kg | 16.7 | | 154 | 28-171 | | |
| Aldrin | 9.53 | | 1.00 | ug/kg | 8.33 | | 114 | 37-121 | | |
| Dieldrin | 24.7 | | 1.00 | ug/kg | 16.7 | | 148 | 23-161 | | |
| Endrin | 27.1 | | 1.00 | ug/kg | 16.7 | | 162 | 14-169 | | |
| Heptachlor | 10.5 | | 1.00 | ug/kg | 8.33 | | 125 | 25-139 | | |
| gamma-BHC (Lindane) | 10.7 | | 1.00 | ug/kg | 8.33 | | 129 | 39-134 | | |
| Surrogate: 2,4,5,6 Tetrachloro-m-xylene | | | 6.09 | ug/kg | 8.33 | | 73.1 | 18-133 | | |
| Surrogate: Decachlorobiphenyl | | | 9.01 | ug/kg | 8.33 | | 108 | 0-238 | | |

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

**Quality Control
(Continued)**

Chlorinated Pesticides (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: 4C00092 - EPA 3550B (Continued)

Matrix Spike (4C00092-MS1)

Source: 2402370-01

Prepared: 2/23/2024 Analyzed: 3/1/2024

| | | | | | | | | | | |
|--|------|--|------|-------|------|----|------|--------|--|--|
| 4,4'-DDT | 53.5 | | 2.00 | ug/kg | 33.3 | ND | 161 | 26-184 | | |
| Aldrin | 11.4 | | 2.00 | ug/kg | 16.7 | ND | 68.5 | 0-185 | | |
| Dieldrin | 56.9 | | 2.00 | ug/kg | 33.3 | ND | 171 | 28-196 | | |
| Endrin | 64.4 | | 2.00 | ug/kg | 33.3 | ND | 193 | 9-206 | | |
| Heptachlor | 24.4 | | 2.00 | ug/kg | 16.7 | ND | 146 | 41-170 | | |
| gamma-BHC (Lindane) | 26.0 | | 2.00 | ug/kg | 16.7 | ND | 156 | 17-201 | | |
| <i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene</i> | | | 12.0 | ug/kg | 16.7 | | 72.2 | 18-133 | | |
| <i>Surrogate: Decachlorobiphenyl</i> | | | 17.1 | ug/kg | 16.7 | | 103 | 0-238 | | |

Matrix Spike Dup (4C00092-MSD1)

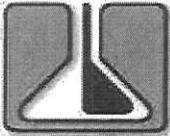
Source: 2402370-01

Prepared: 2/23/2024 Analyzed: 3/1/2024

| | | | | | | | | | | |
|--|------|--|------|-------|------|----|------|--------|--------|----|
| 4,4'-DDT | 57.3 | | 2.00 | ug/kg | 33.3 | ND | 172 | 26-184 | 6.75 | 20 |
| Aldrin | 11.7 | | 2.00 | ug/kg | 16.7 | ND | 70.3 | 0-185 | 2.68 | 20 |
| Dieldrin | 56.9 | | 2.00 | ug/kg | 33.3 | ND | 171 | 28-196 | 0.0820 | 20 |
| Endrin | 61.6 | | 2.00 | ug/kg | 33.3 | ND | 185 | 9-206 | 4.50 | 20 |
| Heptachlor | 23.7 | | 2.00 | ug/kg | 16.7 | ND | 142 | 41-170 | 2.76 | 20 |
| gamma-BHC (Lindane) | 26.6 | | 2.00 | ug/kg | 16.7 | ND | 160 | 17-201 | 2.50 | 20 |
| <i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene</i> | | | 12.6 | ug/kg | 16.7 | | 75.9 | 18-133 | | |
| <i>Surrogate: Decachlorobiphenyl</i> | | | 17.5 | ug/kg | 16.7 | | 105 | 0-238 | | |

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**Zalco
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4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

**Quality Control
(Continued)**

Polynuclear Aromatic Hydrocarbons

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: 4C00253 - EPA 3550B

Blank (4C00253-BLK1)

Prepared: 2/22/2024 Analyzed: 3/6/2024

| | | | | | | | | | | |
|-----------------------------|----|------|-------|-------|------|--|------|-------|--|--|
| Acenaphthene | ND | | 0.330 | mg/kg | | | | | | |
| Acenaphthylene | ND | | 0.330 | mg/kg | | | | | | |
| Anthracene | ND | | 0.330 | mg/kg | | | | | | |
| Benzo(a)anthracene | ND | | 0.330 | mg/kg | | | | | | |
| Benzo(a)pyrene | ND | | 0.330 | mg/kg | | | | | | |
| Benzo(b)fluoranthene | ND | | 0.330 | mg/kg | | | | | | |
| Benzo(ghi)perylene | ND | | 0.330 | mg/kg | | | | | | |
| Benzo(k)fluoranthene | ND | | 0.330 | mg/kg | | | | | | |
| Chrysene | ND | | 0.330 | mg/kg | | | | | | |
| Dibenz(a,h)anthracene | ND | | 0.330 | mg/kg | | | | | | |
| Fluoranthene | ND | | 0.330 | mg/kg | | | | | | |
| Fluorene | ND | | 0.330 | mg/kg | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | | 0.330 | mg/kg | | | | | | |
| Naphthalene | ND | | 0.330 | mg/kg | | | | | | |
| Phenanthrene | ND | | 0.330 | mg/kg | | | | | | |
| Pyrene | ND | | 0.330 | mg/kg | | | | | | |
| 1-Methylnaphthalene | ND | | 0.330 | mg/kg | | | | | | |
| 2-Methylnaphthalene | ND | | 0.330 | mg/kg | | | | | | |
| Surrogate: Nitrobenzene-d5 | | | 2.08 | mg/kg | 3.33 | | 62.4 | 0-125 | | |
| Surrogate: Terphenyl-d14 | | S-GC | 6.62 | mg/kg | 3.33 | | 198 | 0-137 | | |
| Surrogate: 2-Fluorobiphenyl | | | 2.25 | mg/kg | 3.33 | | 67.4 | 0-127 | | |

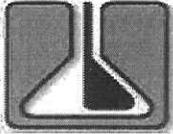
LCS (4C00253-BS1)

Prepared: 2/22/2024 Analyzed: 3/6/2024

| | | | | | | | | | | |
|-----------------------------|------|------|-------|-------|------|--|------|--------|--|--|
| Acenaphthene | 2.04 | | 0.330 | mg/kg | 3.33 | | 61.2 | 0-188 | | |
| Pyrene | 1.86 | | 0.330 | mg/kg | 3.33 | | 55.8 | 0-143 | | |
| 1,4-Dichlorobenzene | 2.46 | | | mg/kg | 3.33 | | 73.9 | 0-152 | | |
| N-Nitrosodi-n-propylamine | 2.24 | | | mg/kg | 3.33 | | 67.2 | 6-127 | | |
| 1,2,4-Trichlorobenzene | 2.42 | | | mg/kg | 3.33 | | 72.5 | 0-172 | | |
| 2,4-Dinitrotoluene | 2.24 | | | mg/kg | 3.33 | | 67.3 | 11-130 | | |
| Surrogate: Nitrobenzene-d5 | | | 2.42 | mg/kg | 3.33 | | 72.5 | 0-125 | | |
| Surrogate: Terphenyl-d14 | | S-GC | 6.30 | mg/kg | 3.33 | | 189 | 0-137 | | |
| Surrogate: 2-Fluorobiphenyl | | | 2.60 | mg/kg | 3.33 | | 78.0 | 0-127 | | |

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Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

**Quality Control
(Continued)**

Polynuclear Aromatic Hydrocarbons (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: 4C00253 - EPA 3550B (Continued)

Matrix Spike (4C00253-MS1)

Source: 2402408-01

Prepared: 2/22/2024 Analyzed: 3/6/2024

| | | | | | | | | | | |
|-----------------------------|------|------|------|-------|------|------|------|-------|--|--|
| Acenaphthene | 1.78 | | 1.65 | mg/kg | 3.33 | ND | 53.6 | 0-159 | | |
| Pyrene | 1.82 | | 1.65 | mg/kg | 3.33 | ND | 54.8 | 0-128 | | |
| 1,4-Dichlorobenzene | 1.48 | | | mg/kg | 3.33 | 0.00 | 44.5 | 1-98 | | |
| N-Nitrosodi-n-propylamine | 1.50 | | | mg/kg | 3.33 | 0.00 | 45.1 | 0-121 | | |
| 1,2,4-Trichlorobenzene | 1.64 | | | mg/kg | 3.33 | 0.00 | 49.3 | 0-128 | | |
| 2,4-Dinitrotoluene | 1.78 | | | mg/kg | 3.33 | 0.00 | 53.6 | 8-103 | | |
| Surrogate: Nitrobenzene-d5 | | | 1.68 | mg/kg | 3.33 | | 50.6 | 0-125 | | |
| Surrogate: Terphenyl-d14 | | S-GC | 6.20 | mg/kg | 3.33 | | 186 | 0-137 | | |
| Surrogate: 2-Fluorobiphenyl | | | 1.94 | mg/kg | 3.33 | | 58.2 | 0-127 | | |

Matrix Spike Dup (4C00253-MSD1)

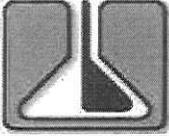
Source: 2402408-01

Prepared: 2/22/2024 Analyzed: 3/6/2024

| | | | | | | | | | | |
|-----------------------------|------|------|------|-------|------|------|------|-------|------|----|
| Acenaphthene | 1.87 | | 1.65 | mg/kg | 3.33 | ND | 56.2 | 0-159 | 4.83 | 20 |
| Pyrene | 2.02 | | 1.65 | mg/kg | 3.33 | ND | 60.7 | 0-128 | 10.2 | 20 |
| 1,4-Dichlorobenzene | 1.43 | | | mg/kg | 3.33 | 0.00 | 43.0 | 1-98 | 3.32 | 20 |
| N-Nitrosodi-n-propylamine | 1.58 | | | mg/kg | 3.33 | 0.00 | 47.3 | 0-121 | 4.77 | 20 |
| 1,2,4-Trichlorobenzene | 1.68 | | | mg/kg | 3.33 | 0.00 | 50.5 | 0-128 | 2.31 | 20 |
| 2,4-Dinitrotoluene | 1.94 | | | mg/kg | 3.33 | 0.00 | 58.1 | 8-103 | 8.15 | 20 |
| Surrogate: Nitrobenzene-d5 | | | 1.60 | mg/kg | 3.33 | | 48.1 | 0-125 | | |
| Surrogate: Terphenyl-d14 | | S-GC | 6.40 | mg/kg | 3.33 | | 192 | 0-137 | | |
| Surrogate: 2-Fluorobiphenyl | | | 1.96 | mg/kg | 3.33 | | 58.8 | 0-127 | | |

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Zalco
Laboratories, Inc.

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Fruit Growers Laboratory, Inc.
853 Corporation Street
Santa Paula, CA 93060

Project: Master
Project Number: CC2480672-(8-769)
Project Manager: Cindy Aguirre

Reported:
04/03/2025 16:33

Notes and Definitions

| <u>Item</u> | <u>Definition</u> |
|-------------|---|
| QM-04 | Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix. |
| S-GC | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| Dry | Sample results reported on a dry weight basis. |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

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Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539

February 23, 2024

Tenera Environmental
141 Suburban Rd., Suite A2
San Luis Obispo, CA 93401

Subject: Subcontract Analysis for FGL Lab No. CC 2480672

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Inorganic-Total Sulfide

Please note that this analysis was performed by Eurofins Calscience, Inc

Thank you for using FGL Environmental.

Sincerely,

Cindy Aguirre  Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2024-02-23

Enclosure



ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Aguirre
FGL Environmental
853 Corporation Street
Santa Paula, California 93060-3005

Generated 2/23/2024 6:32:56 AM

JOB DESCRIPTION

CC2480672-(8-769)

JOB NUMBER

570-173242-1

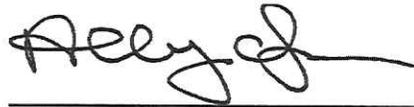
Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



Generated
2/23/2024 6:32:56 AM

Authorized for release by
Allyson Chapman, Project Manager I
Allyson.Chapman@et.eurofinsus.com
(714)895-5494

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Definitions/Glossary

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: FGL Environmental
Project: CC2480672-(8-769)

Job ID: 570-173242-1

Job ID: 570-173242-1

Eurofins Calscience

Job Narrative 570-173242-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/20/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

Client Sample ID: PSL - 1

Lab Sample ID: 570-173242-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|------|-------|-------|---------|---|--------|-----------|
| Sulfide | 14.4 | | 2.15 | 0.489 | mg/Kg | 5 | | 376.2 | Total/NA |

Client Sample ID: PSL - 2

Lab Sample ID: 570-173242-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|------|------|-------|---------|---|--------|-----------|
| Sulfide | 17.4 | | 4.83 | 1.10 | mg/Kg | 10 | | 376.2 | Total/NA |



This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Client Sample ID: PSL - 1 Lab Sample ID: 570-173242-1 | | | | | | | | | |
| Date Collected: 02/15/24 11:27 Matrix: Solid | | | | | | | | | |
| Date Received: 02/20/24 12:00 | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Sulfide (EPA 376.2) | 14.4 | | 2.15 | 0.489 | mg/Kg | | 02/22/24 13:20 | 02/22/24 19:23 | 5 |
| Client Sample ID: PSL - 2 Lab Sample ID: 570-173242-2 | | | | | | | | | |
| Date Collected: 02/15/24 10:32 Matrix: Solid | | | | | | | | | |
| Date Received: 02/20/24 12:00 | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Sulfide (EPA 376.2) | 17.4 | | 4.83 | 1.10 | mg/Kg | | 02/22/24 13:20 | 02/22/24 19:25 | 10 |

QC Sample Results

Client: FGL Environmental
 Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

Method: 376.2 - Sulfide

| | |
|---|---|
| Lab Sample ID: MB 570-413204/1-A Matrix: Solid Analysis Batch: 413357 | Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 413204 |
|---|---|

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------------|-------|-------|-------|---|----------------|----------------|---------|
| Sulfide | ND | | 0.500 | 0.114 | mg/Kg | | 02/22/24 13:20 | 02/22/24 19:11 | 1 |

| | |
|--|---|
| Lab Sample ID: LCS 570-413204/2-A Matrix: Solid Analysis Batch: 413357 | Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 413204 |
|--|---|

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|----------------|---------------|------------------|-------|---|------|----------------|
| Sulfide | 2.50 | 2.220 | | mg/Kg | | 89 | 72 - 123 |

| | |
|---|---|
| Lab Sample ID: LCSD 570-413204/3-A Matrix: Solid Analysis Batch: 413357 | Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 413204 |
|---|---|

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Sulfide | 2.50 | 2.255 | | mg/Kg | | 90 | 72 - 123 | 2 | 11 |



QC Association Summary

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

General Chemistry

Prep Batch: 413204

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 570-173242-1 | PSL - 1 | Total/NA | Solid | 9030B | |
| 570-173242-2 | PSL - 2 | Total/NA | Solid | 9030B | |
| MB 570-413204/1-A | Method Blank | Total/NA | Solid | 9030B | |
| LCS 570-413204/2-A | Lab Control Sample | Total/NA | Solid | 9030B | |
| LCSD 570-413204/3-A | Lab Control Sample Dup | Total/NA | Solid | 9030B | |

Analysis Batch: 413357

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 570-173242-1 | PSL - 1 | Total/NA | Solid | 376.2 | 413204 |
| 570-173242-2 | PSL - 2 | Total/NA | Solid | 376.2 | 413204 |
| MB 570-413204/1-A | Method Blank | Total/NA | Solid | 376.2 | 413204 |
| LCS 570-413204/2-A | Lab Control Sample | Total/NA | Solid | 376.2 | 413204 |
| LCSD 570-413204/3-A | Lab Control Sample Dup | Total/NA | Solid | 376.2 | 413204 |



Lab Chronicle

Client: FGL Environmental
 Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

Client Sample ID: PSL - 1

Lab Sample ID: 570-173242-1

Date Collected: 02/15/24 11:27

Matrix: Solid

Date Received: 02/20/24 12:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA | Prep | 9030B | | | 11.63 g | 50 mL | 413204 | 02/22/24 13:20 | UAPD | EET CAL 4 |
| Total/NA | Analysis | 376.2 | | 5 | 7.5 mL | 7.5 mL | 413357 | 02/22/24 19:23 | UAPD | EET CAL 4 |
| Instrument ID: UV9 | | | | | | | | | | |

Client Sample ID: PSL - 2

Lab Sample ID: 570-173242-2

Date Collected: 02/15/24 10:32

Matrix: Solid

Date Received: 02/20/24 12:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA | Prep | 9030B | | | 10.36 g | 50 mL | 413204 | 02/22/24 13:20 | UAPD | EET CAL 4 |
| Total/NA | Analysis | 376.2 | | 10 | 7.5 mL | 7.5 mL | 413357 | 02/22/24 19:25 | UAPD | EET CAL 4 |
| Instrument ID: UV9 | | | | | | | | | | |

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Accreditation/Certification Summary

Client: FGL Environmental
 Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| California | State | 3082 | 07-31-24 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 376.2 | 9030B | Solid | Sulfide |
| Oregon | NELAP | 4175 | 02-03-25 |



Method Summary

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| 376.2 | Sulfide | EPA | EET CAL 4 |
| 9030B | Sulfide, Distillation (Acid Soluble and Insoluble) | SW846 | EET CAL 4 |

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: FGL Environmental
Project/Site: CC2480672-(8-769)

Job ID: 570-173242-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 570-173242-1 | PSL - 1 | Solid | 02/15/24 11:27 | 02/20/24 12:00 |
| 570-173242-2 | PSL - 2 | Solid | 02/15/24 10:32 | 02/20/24 12:00 |





Special Subcontract to
Eurofins Calscience, Inc

CHAIN OF CUSTODY
www.fgllinc.com
Laboratory Copy (1 of 2)

80777:01/01/2024

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: Fruit Growers Laboratory, Inc.
Address: FGL Environmental, Inc.
853 Corporation St.
Santa Paula, CA 93060-3005
Phone: _____ Fax: _____
Contact Person: Cindy Aguirre
Project Name: CC 24324-22 - (8-769)
Purchase Order Number: _____
Quote Number: CC 20190207-31

Sampler(s) _____
Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ____/____/____ Time: ____/____

| Lab Number: | Location Description | Date Sampled | Time Sampled |
|-------------|----------------------|--------------|--------------|
| 1 | PSL - 1 | 2/11/24 | 11:27 |
| 2 | PSL - 2 | 2/11/24 | 10:32 |

| Method of Sampling: | Type of Sample | Potable(P) Non-Potable(NP) Ag Water(AgW) | Bacti Type: Other(O) System(SYS) Source(SR) Waste(W) | Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) | Sub Inorganic-Total Sulfide 8oz(G) |
|----------------------|----------------------|--|--|--|------------------------------------|
| Composite(C) Grab(G) | **SEE REVERSE SIDE** | | | | |
| G | Sid | | | | 1 |
| G | Sid | | | | 1 |

Remarks: Results on a wet weight basis

| Relinquished | Date: | Time: | Received By: | Relinquished | Date: | Time: | Received By: | Relinquished | Date: | Time: | Received By: |
|--------------|---------|-------|--------------|--------------|-------|-------|--------------|--------------|-------|-------|--------------|
| 9/6/24 | 2/11/24 | 13:00 | [Signature] | | | | | | | | |
| 6/15 | | | | | | | | | | | |



Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

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Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empressa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8423/2024

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- 14



800-322-5555
www.gls-us.com

Ship From
EUROFINS CALSCIENCE
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

Ship To
FRUIT GROWERS LABORATORY

HEIDI OCHOA
563 E LINDO
CHICO, CA 95926

COD: \$0.00

Weight: 0 lb(s)

Reference:

CH 2471266

Delivery Instructions:

Signature Type: STANDARD

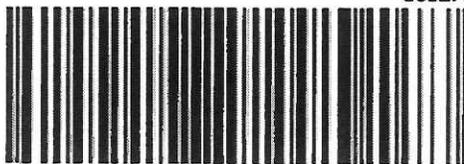
Tracking #: 560968967

PDS



CHICO

S10903A



4047565

SMF CA958-OA1

Print Date: 2/19/2024 3:56 PM



Package 2 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com

Login Sample Receipt Checklist

Client: FGL Environmental

Job Number: 570-173242-1

Login Number: 173242

List Source: Eurofins Calscience

List Number: 1

Creator: Gutierrez, Rebecca

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \neq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



ANALYTICAL REPORT

PREPARED FOR

Attn: Tessa Victor
Tenera Environmental
141 Suburban Rd. Suite A2
San Luis Obispo, California 93401

Generated 2/25/2025 10:41:58 PM

JOB DESCRIPTION

Sediment Sample Testing

JOB NUMBER

570-216828-1

Eurofins Calscience

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Terri Chang, Project Manager I
Terri.Chang@et.eurofinsus.com
(657)210-6295

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Definitions/Glossary

Client: TENERA Environmental
Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Tenera Environmental
Project: Sediment Sample Testing

Job ID: 570-216828-1

Job ID: 570-216828-1

Eurofins Calscience

Job Narrative 570-216828-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

The samples were frozen after collection (prior to holding time expiration) at -18°C, and remained frozen until the laboratory was ready to prepare the samples for analysis. Eurofins Environment Testing Southwest, LLC follows SWAMP criteria and the Puget Sound Protocol (USEPA/PSWQAT, 1997, Table 2) for holding times in sediment samples, which states holding times for certain methods may be extended up to six months to one year (two years for metals) if stored frozen at -18°C after collection. Therefore, sample results for methods have not been flagged as exceeding the EPA Method recommended holding time. Results for methods that are not subject to holding time extension by freezing are flagged as exceeding holding time if applicable.

Receipt

The samples were received on 2/5/2025 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.2°C.

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8270C_SIM_CON: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: PSL-1 (570-216828-1) and PSL-2 (570-216828-2). The reagent lot number used was: 5356770.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Calscience



Detection Summary

Client: TENERA Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Client Sample ID: PSL-1

Lab Sample ID: 570-216828-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|------|------|-------|---------|---|----------------|-----------|
| PCB-66 | 0.20 | J | 0.28 | 0.16 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-70 | 0.29 | | 0.28 | 0.13 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-87 | 0.26 | J | 0.28 | 0.18 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-99 | 0.39 | | 0.28 | 0.12 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-101 | 0.27 | J | 0.28 | 0.15 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-110 | 0.19 | J | 0.28 | 0.13 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-118 | 0.14 | J | 0.28 | 0.11 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| PCB-132/153 | 0.36 | J | 0.57 | 0.34 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| Total PCB Congeners | 2.3 | | 0.57 | 0.34 | ug/Kg | 1 | ✳ | 8270C SIM CON | Total/NA |
| Tetrabutyltin | 2.3 | J | 4.2 | 2.3 | ug/Kg | 1 | ✳ | Organotins SIM | Total/NA |
| Sample Homogenized | Yes | | | | NONE | 1 | | Homogenization | Total/NA |

Client Sample ID: PSL-2

Lab Sample ID: 570-216828-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------|--------|-----------|----|-----|------|---------|---|----------------|-----------|
| Sample Homogenized | Yes | | | | NONE | 1 | | Homogenization | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Calscience



Client Sample Results

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: SW846 8270C SIM CON - PCB Congeners (GC/MS)

Client Sample ID: PSL-1
 Date Collected: 02/15/24 11:27
 Date Received: 02/05/25 10:05

Lab Sample ID: 570-216828-1
 Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|------------------|------------------|---------------|-------------|--------------|---|-----------------------|-----------------------|----------------|
| PCB-18 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-28 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-37 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-44 | ND | | 0.28 | 0.17 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-49 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-52 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-66 | 0.20 | J | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-70 | 0.29 | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-74 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-77 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-81 | ND | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-87 | 0.26 | J | 0.28 | 0.18 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-99 | 0.39 | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-101 | 0.27 | J | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-105 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-110 | 0.19 | J | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-114 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-118 | 0.14 | J | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-119 | ND | | 0.28 | 0.18 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-123 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-126 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-128 | ND | | 0.28 | 0.20 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-132/153 | 0.36 | J | 0.57 | 0.34 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-138/158 | ND | | 0.57 | 0.35 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-149 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-151 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-156 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-157 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-167 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-168 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-169 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-170 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-177 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-180 | ND | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-183 | ND | | 0.28 | 0.17 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-187 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-189 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-194 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-201 | ND | | 0.28 | 0.20 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| PCB-206 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| Total PCB Congeners | 2.3 | | 0.57 | 0.34 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 66 | | 20 - 139 | | | | 02/12/25 13:00 | 02/20/25 17:30 | 1 |
| p-Terphenyl-d14 (Surr) | 95 | | 37 - 165 | | | | 02/12/25 13:00 | 02/20/25 17:30 | 1 |

Client Sample Results

Client: Tena Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: SW846 8270C SIM CON - PCB Congeners (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| PCB-18 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-28 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-37 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-44 | ND | | 0.28 | 0.17 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-49 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-52 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-66 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-70 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-74 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-77 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-81 | ND | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-87 | ND | | 0.28 | 0.17 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-99 | ND | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-101 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-105 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-110 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-114 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-118 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-119 | ND | | 0.28 | 0.18 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-123 | ND | | 0.28 | 0.14 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-126 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-128 | ND | | 0.28 | 0.19 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-132/153 | ND | | 0.56 | 0.34 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-138/158 | ND | | 0.56 | 0.34 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-149 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-151 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-156 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-157 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-167 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-168 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-169 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-170 | ND | | 0.28 | 0.15 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-177 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-180 | ND | | 0.28 | 0.12 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-183 | ND | | 0.28 | 0.17 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-187 | ND | | 0.28 | 0.13 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-189 | ND | | 0.28 | 0.11 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-194 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-201 | ND | | 0.28 | 0.20 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| PCB-206 | ND | | 0.28 | 0.16 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| Total PCB Congeners | ND | | 0.56 | 0.34 | ug/Kg | * | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 67 | | 20 - 139 | | | | 02/12/25 13:00 | 02/20/25 17:56 | 1 |
| p-Terphenyl-d14 (Surr) | 99 | | 37 - 165 | | | | 02/12/25 13:00 | 02/20/25 17:56 | 1 |

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Client Sample Results

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: KRONE Organotins SIM - Organotins (GC/MS SIM)

Client Sample ID: PSL-1
Date Collected: 02/15/24 11:27
Date Received: 02/05/25 10:05

Lab Sample ID: 570-216828-1
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Tetrabutyltin | 2.3 | J | 4.2 | 2.3 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:10 | 1 |
| Tributyltin | ND | | 4.2 | 2.0 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:10 | 1 |
| Dibutyltin | ND | | 4.2 | 1.8 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:10 | 1 |
| Monobutyltin | ND | | 4.2 | 0.76 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:10 | 1 |
| <hr/> | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tripentyltin | 104 | | 39 - 150 | | | | 02/11/25 08:24 | 02/13/25 19:10 | 1 |

Client Sample ID: PSL-2
Date Collected: 02/15/24 10:32
Date Received: 02/05/25 10:05

Lab Sample ID: 570-216828-2
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Tetrabutyltin | ND | | 4.2 | 2.3 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:27 | 1 |
| Tributyltin | ND | | 4.2 | 2.0 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:27 | 1 |
| Dibutyltin | ND | | 4.2 | 1.8 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:27 | 1 |
| Monobutyltin | ND | | 4.2 | 0.76 | ug/Kg | ⊛ | 02/11/25 08:24 | 02/13/25 19:27 | 1 |
| <hr/> | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tripentyltin | 105 | | 39 - 150 | | | | 02/11/25 08:24 | 02/13/25 19:27 | 1 |



Client Sample Results

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

General Chemistry

Client Sample ID: PSL-1
Date Collected: 02/15/24 11:27
Date Received: 02/05/25 10:05

Lab Sample ID: 570-216828-1
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Percent Moisture (SM 2540G) | 30.0 | | 0.100 | 0.100 | % | | | 02/10/25 16:03 | 1 |
| Sample Homogenized (None Homogenization) | Yes | | | | NONE | | | 02/10/25 16:47 | 1 |

Client Sample ID: PSL-2
Date Collected: 02/15/24 10:32
Date Received: 02/05/25 10:05

Lab Sample ID: 570-216828-2
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Percent Moisture (SM 2540G) | 29.3 | | 0.100 | 0.100 | % | | | 02/10/25 16:03 | 1 |
| Sample Homogenized (None Homogenization) | Yes | | | | NONE | | | 02/10/25 16:47 | 1 |



Surrogate Summary

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: 8270C SIM CON - PCB Congeners (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|--------------------|
| | | FBP (20-139) | TPHd14 (37-165) |
| 570-216828-1 | PSL-1 | 66 | 95 |
| 570-216828-2 | PSL-2 | 67 | 99 |
| LCS 570-532550/2-A | Lab Control Sample | 79 | 96 |
| LCSD 570-532550/3-A | Lab Control Sample Dup | 77 | 97 |
| MB 570-532550/1-A | Method Blank | 75 | 94 |

Surrogate Legend
 FBP = 2-Fluorobiphenyl (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|--|
| | | TPTT (39-150) |
| 570-216828-1 | PSL-1 | 104 |
| 570-216828-2 | PSL-2 | 105 |
| LCS 570-532359/2-A | Lab Control Sample | 93 |
| LCSD 570-532359/3-A | Lab Control Sample Dup | 106 |
| MB 570-532359/1-A | Method Blank | 76 |

Surrogate Legend
 TPTT = Triphenyltin



QC Sample Results

Client: TENERA Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: 8270C SIM CON - PCB Congeners (GC/MS)

Lab Sample ID: MB 570-532550/1-A
 Matrix: Solid
 Analysis Batch: 536157

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 532550

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| PCB-18 | ND | | 0.20 | 0.094 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-28 | ND | | 0.20 | 0.10 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-37 | ND | | 0.20 | 0.080 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-44 | ND | | 0.20 | 0.12 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-49 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-52 | ND | | 0.20 | 0.079 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-66 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-70 | ND | | 0.20 | 0.093 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-74 | ND | | 0.20 | 0.10 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-77 | ND | | 0.20 | 0.095 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-81 | ND | | 0.20 | 0.087 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-87 | ND | | 0.20 | 0.12 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-99 | ND | | 0.20 | 0.086 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-101 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-105 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-110 | ND | | 0.20 | 0.089 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-114 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-118 | ND | | 0.20 | 0.080 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-119 | ND | | 0.20 | 0.12 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-123 | ND | | 0.20 | 0.099 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-126 | ND | | 0.20 | 0.092 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-128 | ND | | 0.20 | 0.14 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-132/153 | ND | | 0.40 | 0.24 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-138/158 | ND | | 0.40 | 0.24 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-149 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-151 | ND | | 0.20 | 0.092 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-156 | ND | | 0.20 | 0.095 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-157 | ND | | 0.20 | 0.094 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-167 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-168 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-169 | ND | | 0.20 | 0.094 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-170 | ND | | 0.20 | 0.10 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-177 | ND | | 0.20 | 0.094 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-180 | ND | | 0.20 | 0.083 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-183 | ND | | 0.20 | 0.12 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-187 | ND | | 0.20 | 0.089 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-189 | ND | | 0.20 | 0.079 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-194 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-201 | ND | | 0.20 | 0.14 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| PCB-206 | ND | | 0.20 | 0.11 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| Total PCB Congeners | ND | | 0.40 | 0.24 | ug/Kg | | 02/12/25 13:00 | 02/20/25 13:15 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 2-Fluorobiphenyl (Surr) | 75 | | 20 - 139 | 02/12/25 13:00 | 02/20/25 13:15 | 1 |
| p-Terphenyl-d14 (Surr) | 94 | | 37 - 165 | 02/12/25 13:00 | 02/20/25 13:15 | 1 |

QC Sample Results

Client: Tenera Environmental
Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: 8270C SIM CON - PCB Congeners (GC/MS) (Continued)

Lab Sample ID: LCS 570-532550/2-A
Matrix: Solid
Analysis Batch: 536157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532550

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-------------|-------------|------------|---------------|-------|---|------|----------|
| PCB-18 | 50.0 | 43.17 | | ug/Kg | | 86 | 33 - 114 |
| PCB-44 | 50.0 | 53.54 | | ug/Kg | | 107 | 38 - 131 |
| PCB-52 | 50.0 | 53.93 | | ug/Kg | | 108 | 38 - 131 |
| PCB-66 | 50.0 | 52.57 | | ug/Kg | | 105 | 42 - 141 |
| PCB-77 | 50.0 | 51.04 | | ug/Kg | | 102 | 47 - 135 |
| PCB-101 | 50.0 | 59.53 | | ug/Kg | | 119 | 40 - 132 |
| PCB-105 | 50.0 | 56.87 | | ug/Kg | | 114 | 39 - 135 |
| PCB-118 | 50.0 | 49.10 | | ug/Kg | | 98 | 38 - 131 |
| PCB-126 | 50.0 | 52.93 | | ug/Kg | | 106 | 40 - 139 |
| PCB-128 | 50.0 | 61.22 | | ug/Kg | | 122 | 43 - 149 |
| PCB-132/153 | 50.0 | 66.33 | | ug/Kg | | 133 | 37 - 164 |
| PCB-138/158 | 50.0 | 49.77 | | ug/Kg | | 100 | 36 - 124 |
| PCB-170 | 50.0 | 60.28 | | ug/Kg | | 121 | 35 - 134 |
| PCB-180 | 50.0 | 74.60 | | ug/Kg | | 149 | 38 - 159 |
| PCB-187 | 50.0 | 61.45 | | ug/Kg | | 123 | 41 - 147 |
| PCB-201 | 50.0 | 65.54 | | ug/Kg | | 131 | 40 - 156 |
| PCB-206 | 50.0 | 70.17 | | ug/Kg | | 140 | 37 - 153 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 79 | | 20 - 139 |
| p-Terphenyl-d14 (Surr) | 96 | | 37 - 165 |

Lab Sample ID: LCSD 570-532550/3-A
Matrix: Solid
Analysis Batch: 536157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 532550

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-------------|-------------|-------------|----------------|-------|---|------|----------|-----|-------|
| PCB-18 | 50.0 | 40.92 | | ug/Kg | | 82 | 33 - 114 | 5 | 29 |
| PCB-44 | 50.0 | 53.42 | | ug/Kg | | 107 | 38 - 131 | 0 | 32 |
| PCB-52 | 50.0 | 52.67 | | ug/Kg | | 105 | 38 - 131 | 2 | 32 |
| PCB-66 | 50.0 | 54.85 | | ug/Kg | | 110 | 42 - 141 | 4 | 34 |
| PCB-77 | 50.0 | 50.91 | | ug/Kg | | 102 | 47 - 135 | 0 | 35 |
| PCB-101 | 50.0 | 59.82 | | ug/Kg | | 120 | 40 - 132 | 0 | 34 |
| PCB-105 | 50.0 | 57.20 | | ug/Kg | | 114 | 39 - 135 | 1 | 37 |
| PCB-118 | 50.0 | 50.03 | | ug/Kg | | 100 | 38 - 131 | 2 | 35 |
| PCB-126 | 50.0 | 53.24 | | ug/Kg | | 106 | 40 - 139 | 1 | 39 |
| PCB-128 | 50.0 | 61.17 | | ug/Kg | | 122 | 43 - 149 | 0 | 37 |
| PCB-132/153 | 50.0 | 67.07 | | ug/Kg | | 134 | 37 - 164 | 1 | 38 |
| PCB-138/158 | 50.0 | 50.69 | | ug/Kg | | 101 | 36 - 124 | 2 | 40 |
| PCB-170 | 50.0 | 58.81 | | ug/Kg | | 118 | 35 - 134 | 2 | 31 |
| PCB-180 | 50.0 | 75.80 | | ug/Kg | | 152 | 38 - 159 | 2 | 40 |
| PCB-187 | 50.0 | 60.96 | | ug/Kg | | 122 | 41 - 147 | 1 | 40 |
| PCB-201 | 50.0 | 65.67 | | ug/Kg | | 131 | 40 - 156 | 0 | 40 |
| PCB-206 | 50.0 | 70.38 | | ug/Kg | | 141 | 37 - 153 | 0 | 36 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------------------|----------------|----------------|----------|
| 2-Fluorobiphenyl (Surr) | 77 | | 20 - 139 |
| p-Terphenyl-d14 (Surr) | 97 | | 37 - 165 |

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QC Sample Results

Client: Tintera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Method: Organotins SIM - Organotins (GC/MS SIM)

| Lab Sample ID: MB 570-532359/1-A | | | | | | Client Sample ID: Method Blank | | | | |
|---|--------------|--------------|----------|------|-------|---------------------------------------|----------------|----------------|---------|--|
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 533497 | | | | | | Prep Batch: 532359 | | | | |
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Tetrabutyltin | ND | | 3.0 | 1.6 | ug/Kg | | 02/11/25 08:24 | 02/13/25 13:32 | 1 | |
| Tributyltin | ND | | 3.0 | 1.4 | ug/Kg | | 02/11/25 08:24 | 02/13/25 13:32 | 1 | |
| Dibutyltin | ND | | 3.0 | 1.3 | ug/Kg | | 02/11/25 08:24 | 02/13/25 13:32 | 1 | |
| Monobutyltin | ND | | 3.0 | 0.54 | ug/Kg | | 02/11/25 08:24 | 02/13/25 13:32 | 1 | |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| Tripentyltin | 76 | | 39 - 150 | | | | 02/11/25 08:24 | 02/13/25 13:32 | 1 | |

| Lab Sample ID: LCS 570-532359/2-A | | | | | | Client Sample ID: Lab Control Sample | | | | |
|--|---------------|---------------|-------------|------------|---------------|---|---|------|----------|--|
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 533497 | | | | | | Prep Batch: 532359 | | | | |
| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
| Tetrabutyltin | | | 20.0 | 17.97 | | ug/Kg | | 90 | 10 - 153 | |
| Tributyltin | | | 17.8 | 16.45 | | ug/Kg | | 92 | 10 - 126 | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | %Rec | Limits | |
| Tripentyltin | 93 | | 39 - 150 | | | | | | | |

| Lab Sample ID: LCSD 570-532359/3-A | | | | | | Client Sample ID: Lab Control Sample Dup | | | | | |
|---|----------------|----------------|-------------|-------------|----------------|---|---|------|----------|-----|-------|
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | | | |
| Analysis Batch: 533497 | | | | | | Prep Batch: 532359 | | | | | |
| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Tetrabutyltin | | | 20.0 | 22.05 | | ug/Kg | | 110 | 10 - 153 | 20 | 30 |
| Tributyltin | | | 17.8 | 20.55 | | ug/Kg | | 115 | 10 - 126 | 22 | 30 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | %Rec | Limits | RPD | Limit |
| Tripentyltin | 106 | | 39 - 150 | | | | | | | | |

Method: 2540G - Percent Moisture

| Lab Sample ID: MB 570-532129/1 | | | | | | Client Sample ID: Method Blank | | | | |
|---------------------------------------|-----------|--------------|-------|-------|------|---------------------------------------|----------|----------------|---------|--|
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 532129 | | | | | | | | | | |
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Percent Moisture | ND | | 0.100 | 0.100 | % | | | 02/10/25 16:03 | 1 | |

QC Association Summary

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

GC/MS Semi VOA

Prep Batch: 532359

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | Organotin Prep | |
| 570-216828-2 | PSL-2 | Total/NA | Solid | Organotin Prep | |
| MB 570-532359/1-A | Method Blank | Total/NA | Solid | Organotin Prep | |
| LCS 570-532359/2-A | Lab Control Sample | Total/NA | Solid | Organotin Prep | |
| LCSD 570-532359/3-A | Lab Control Sample Dup | Total/NA | Solid | Organotin Prep | |

Prep Batch: 532550

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | 3541 | |
| 570-216828-2 | PSL-2 | Total/NA | Solid | 3541 | |
| MB 570-532550/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 570-532550/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 570-532550/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |

Analysis Batch: 533497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | Organotins SIM | 532359 |
| 570-216828-2 | PSL-2 | Total/NA | Solid | Organotins SIM | 532359 |
| MB 570-532359/1-A | Method Blank | Total/NA | Solid | Organotins SIM | 532359 |
| LCS 570-532359/2-A | Lab Control Sample | Total/NA | Solid | Organotins SIM | 532359 |
| LCSD 570-532359/3-A | Lab Control Sample Dup | Total/NA | Solid | Organotins SIM | 532359 |

Analysis Batch: 536157

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|---------------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | 8270C SIM CON | 532550 |
| 570-216828-2 | PSL-2 | Total/NA | Solid | 8270C SIM CON | 532550 |
| MB 570-532550/1-A | Method Blank | Total/NA | Solid | 8270C SIM CON | 532550 |
| LCS 570-532550/2-A | Lab Control Sample | Total/NA | Solid | 8270C SIM CON | 532550 |
| LCSD 570-532550/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C SIM CON | 532550 |

General Chemistry

Analysis Batch: 532129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | 2540G | |
| 570-216828-2 | PSL-2 | Total/NA | Solid | 2540G | |
| MB 570-532129/1 | Method Blank | Total/NA | Solid | 2540G | |

Analysis Batch: 532157

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 570-216828-1 | PSL-1 | Total/NA | Solid | Homogenization | |
| 570-216828-2 | PSL-2 | Total/NA | Solid | Homogenization | |

Lab Chronicle

Client: Tena Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Client Sample ID: PSL-1

Lab Sample ID: 570-216828-1

Date Collected: 02/15/24 11:27

Matrix: Solid

Date Received: 02/05/25 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA | Prep | 3541 | | | 20.04 g | 2 mL | 532550 | 02/12/25 13:00 | UM1W | EET CAL 4 |
| Total/NA | Analysis | 8270C SIM CON | | 1 | 1 mL | 1 mL | 536157 | 02/20/25 17:30 | J7WE | EET CAL 4 |
| Instrument ID: GCMSHHH | | | | | | | | | | |
| Total/NA | Prep | Organotin Prep | | | 20.2 g | 2 mL | 532359 | 02/11/25 08:24 | UWEZ | EET CAL 4 |
| Total/NA | Analysis | Organotins SIM | | 1 | 1 mL | 1 mL | 533497 | 02/13/25 19:10 | ULLI | EET CAL 4 |
| Instrument ID: GCMSY | | | | | | | | | | |
| Total/NA | Analysis | 2540G | | 1 | | | 532129 | 02/10/25 16:03 | TP6R | EET CAL 4 |
| Instrument ID: BAL66 | | | | | | | | | | |
| Total/NA | Analysis | Homogenization | | 1 | 800 g | 800 g | 532157 | 02/10/25 16:47 | USUL | EET CAL 4 |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PSL-2

Lab Sample ID: 570-216828-2

Date Collected: 02/15/24 10:32

Matrix: Solid

Date Received: 02/05/25 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|-----------|
| Total/NA | Prep | 3541 | | | 20.06 g | 2 mL | 532550 | 02/12/25 13:00 | UM1W | EET CAL 4 |
| Total/NA | Analysis | 8270C SIM CON | | 1 | 1 mL | 1 mL | 536157 | 02/20/25 17:56 | J7WE | EET CAL 4 |
| Instrument ID: GCMSHHH | | | | | | | | | | |
| Total/NA | Prep | Organotin Prep | | | 20.0 g | 2 mL | 532359 | 02/11/25 08:24 | UWEZ | EET CAL 4 |
| Total/NA | Analysis | Organotins SIM | | 1 | 1 mL | 1 mL | 533497 | 02/13/25 19:27 | ULLI | EET CAL 4 |
| Instrument ID: GCMSY | | | | | | | | | | |
| Total/NA | Analysis | 2540G | | 1 | | | 532129 | 02/10/25 16:03 | TP6R | EET CAL 4 |
| Instrument ID: BAL66 | | | | | | | | | | |
| Total/NA | Analysis | Homogenization | | 1 | 800 g | 800 g | 532157 | 02/10/25 16:47 | USUL | EET CAL 4 |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| California | State | 3082 | 07-31-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|----------------|--------|---------------------|
| 2540G | | Solid | Percent Moisture |
| 8270C SIM CON | 3541 | Solid | PCB-101 |
| 8270C SIM CON | 3541 | Solid | PCB-105 |
| 8270C SIM CON | 3541 | Solid | PCB-110 |
| 8270C SIM CON | 3541 | Solid | PCB-114 |
| 8270C SIM CON | 3541 | Solid | PCB-118 |
| 8270C SIM CON | 3541 | Solid | PCB-119 |
| 8270C SIM CON | 3541 | Solid | PCB-123 |
| 8270C SIM CON | 3541 | Solid | PCB-126 |
| 8270C SIM CON | 3541 | Solid | PCB-128 |
| 8270C SIM CON | 3541 | Solid | PCB-132/153 |
| 8270C SIM CON | 3541 | Solid | PCB-138/158 |
| 8270C SIM CON | 3541 | Solid | PCB-149 |
| 8270C SIM CON | 3541 | Solid | PCB-151 |
| 8270C SIM CON | 3541 | Solid | PCB-156 |
| 8270C SIM CON | 3541 | Solid | PCB-157 |
| 8270C SIM CON | 3541 | Solid | PCB-167 |
| 8270C SIM CON | 3541 | Solid | PCB-168 |
| 8270C SIM CON | 3541 | Solid | PCB-169 |
| 8270C SIM CON | 3541 | Solid | PCB-170 |
| 8270C SIM CON | 3541 | Solid | PCB-177 |
| 8270C SIM CON | 3541 | Solid | PCB-18 |
| 8270C SIM CON | 3541 | Solid | PCB-180 |
| 8270C SIM CON | 3541 | Solid | PCB-183 |
| 8270C SIM CON | 3541 | Solid | PCB-187 |
| 8270C SIM CON | 3541 | Solid | PCB-189 |
| 8270C SIM CON | 3541 | Solid | PCB-194 |
| 8270C SIM CON | 3541 | Solid | PCB-201 |
| 8270C SIM CON | 3541 | Solid | PCB-206 |
| 8270C SIM CON | 3541 | Solid | PCB-28 |
| 8270C SIM CON | 3541 | Solid | PCB-37 |
| 8270C SIM CON | 3541 | Solid | PCB-44 |
| 8270C SIM CON | 3541 | Solid | PCB-49 |
| 8270C SIM CON | 3541 | Solid | PCB-52 |
| 8270C SIM CON | 3541 | Solid | PCB-66 |
| 8270C SIM CON | 3541 | Solid | PCB-70 |
| 8270C SIM CON | 3541 | Solid | PCB-74 |
| 8270C SIM CON | 3541 | Solid | PCB-77 |
| 8270C SIM CON | 3541 | Solid | PCB-81 |
| 8270C SIM CON | 3541 | Solid | PCB-87 |
| 8270C SIM CON | 3541 | Solid | PCB-99 |
| 8270C SIM CON | 3541 | Solid | Total PCB Congeners |
| Homogenization | | Solid | Sample Homogenized |
| Organotins SIM | Organotin Prep | Solid | Dibutyltin |
| Organotins SIM | Organotin Prep | Solid | Monobutyltin |



Accreditation/Certification Summary

Client: Tenera Environmental
 Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

Laboratory: Eurofins Calscience (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|--------------------|-----------------------|--------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| <u>Analysis Method</u> | <u>Prep Method</u> | <u>Matrix</u> | <u>Analyte</u> |
| Organotins SIM | Organotin Prep | Solid | Tetrabutyltin |
| Organotins SIM | Organotin Prep | Solid | Tributyltin |
| Oregon | NELAP | 4175 | 02-02-26 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| <u>Analysis Method</u> | <u>Prep Method</u> | <u>Matrix</u> | <u>Analyte</u> |
| Homogenization | | Solid | Sample Homogenized |



Method Summary

Client: Tenera Environmental
Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

| Method | Method Description | Protocol | Laboratory |
|----------------|------------------------------|----------|------------|
| 8270C SIM CON | PCB Congeners (GC/MS) | SW846 | EET CAL 4 |
| Organotins SIM | Organotins (GC/MS SIM) | KRONE | EET CAL 4 |
| 2540G | Percent Moisture | SM | EET CAL 4 |
| Homogenization | Homogenization | None | EET CAL 4 |
| 3541 | Automated Soxhlet Extraction | SW846 | EET CAL 4 |
| Organotin Prep | Extraction (Organotins) | None | EET CAL 4 |

Protocol References:

KRONE = KRONE

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Sample Summary

Client: Tenera Environmental
Project/Site: Sediment Sample Testing

Job ID: 570-216828-1

| <u>Lab Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Collected</u> | <u>Received</u> |
|----------------------|-------------------------|---------------|------------------|-----------------|
| 570-216828-1 | PSL-1 | Solid | 02/15/24 11:27 | 02/05/25 10:05 |
| 570-216828-2 | PSL-2 | Solid | 02/15/24 10:32 | 02/05/25 10:05 |



066

My COCs / 358251

Eurofins Calscience

Company
Tenerra Environmental

Address
141 Suburban rd, Suite A2
San Luis Obispo, California
93405

Phone
(805) 471-8295

Email
tvictor@tenerra.com

Client TAT
10 Days

Samples (2)

| Sample Name | Matrix | Date | Time | Type | Collected | On Hold | Comr |
|-------------|--------|---------|-------------|--------|-----------|---------|------|
| PSL-1 | Soil | 2/15/24 | 11:27 AM PT | NORMAL | Yes | No | |
| PSL-2 | Soil | 2/15/24 | 10:32 AM PT | NORMAL | Yes | No | |

Possible Hazards (0 of 6)

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216828
075 :oc:7



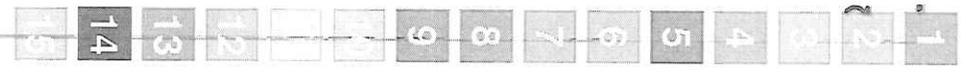
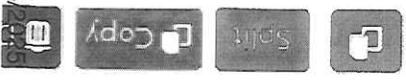
570-216828 Chain of Custody

Received by: [Signature] 2.5.25 10:06
-1.8/-12 etc

Relinquished From: Tessa Victor Date: Victor 2/4/25 12:40
TO: VPS

Purchase Order
Purchase Order not required
Site Name
Sediment Sample Testing
Lab Return Address
2841 Dow Avenue, Suite 100
Tustin, CA
92780
Sampler
Tessa Victor
Short Hold
Yes

2/25/2025



Havena Environmental Sediment Samples
 PSL-1 and PSL-2
 Collection: 02/15/2024

| Organotins | |
|--------------|---------|
| Dibutyltin | PCB 044 |
| Monobutyltin | PCB 037 |
| Tributyltin | PCB 028 |
| Tributyltin | PCB 018 |
| PCBs | |
| PCB 128 | PCB 128 |
| PCB 138 | PCB 138 |
| PCB 149 | PCB 149 |
| PCB 151 | PCB 151 |
| PCB 153 | PCB 153 |
| PCB 156 | PCB 156 |
| PCB 157 | PCB 157 |
| PCB 158 | PCB 158 |
| PCB 167 | PCB 167 |
| PCB 174 | PCB 174 |
| PCB 077 | PCB 077 |
| PCB 081 | PCB 081 |
| PCB 087 | PCB 087 |
| PCB 099 | PCB 099 |
| PCB 101 | PCB 101 |
| PCB 105 | PCB 105 |
| PCB 110 | PCB 110 |
| PCB 114 | PCB 114 |
| PCB 118 | PCB 118 |
| PCB 119 | PCB 119 |
| PCB 201 | PCB 201 |
| PCB 206 | PCB 206 |
| Total PCBs | PCB 126 |

Method
 } Kane et al
 EPA 8270c

Contact: Tessa Vicker 1 (805) 471-8295, tvicker@haver.com

525912

Login Sample Receipt Checklist

Client: Tenera Environmental

Job Number: 570-216828-1

Login Number: 216828

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

