padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

REMEDIAL ACTION PLAN

GALILEO PISA, LLC PROJECT
5317 CALLE REAL, SANTA BARBARA,
SANTA BARBARA COUNTY, CALIFORNIA

Prepared for:
GALILEO PISA, LLC

August 2020

1861 Knoll Drive ■ Ventura, California 93003 ■ (805) 644-2220 ■ www.padreinc.com

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August 13, 2020
Project No. 2001-7261

Santa Barbara County Public Health Department
Environmental Health Services – Site Mitigation Unit
2125 South Centerpointe Parkway, Room 333
Santa Maria, California 93455

Attention: Mr. Thomas M. Rejzek, P.G., C.Hg.

Subject: Remedial Action Plan, Galileo Pisa, LLC Project, 5317 Calle Real, Santa Barbara, Santa Barbara County, California

Dear Mr. Rejzek:

Padre Associates, Inc., on behalf of Galileo Pisa, LLC, has prepared this Remedial Action Plan that outlines Padre's proposed methodology for soil remediation activities to be completed at the subject site. If you have any questions or comments please contact Mr. Jerome K. Summerlin at (805) 644-2220, extension 17 / jsummerlin@padreinc.com.

Sincerely,

PADRE ASSOCIATES, INC.

Louis J. Cappel, P.G., C.Hg.
Principal

Jerome K. Summerlin, C.E.G., C.Hg.
President

cc: Ms. Trudi G. Carey, Galileo Pisa, LLC

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1.0 INTRODUCTION

Padre Associates, Inc., on behalf of Galileo Pisa, LLC (GP), has prepared this Remedial Action Plan (RAP) that outlines Padre's proposed methodology for soil remediation activities to be completed at 5317 Calle Real, Santa Barbara, Santa Barbara County, California (Project Site). The location of the Project Site is presented on Plate 1 - Site Location Map. Provided below is a project overview and a description of the RAP organization.

1.1 OVERVIEW

The Project Site was historically utilized as an avocado orchard, and is identified with County of Santa Barbara Assessor's Parcel Number (APN) 069-525-022 (Refer to Plate 2 – Site Plan Showing Soil Assessment Locations). The Project Site is approximately 1.5 acres in size, and is currently planned to be redeveloped for residential land use. Based on the information provided to Padre by GP, EHS previously recommended soil assessment activities at the Project Site for the presence of the following Constituents of Potential Concern (COPCs): metals, organochlorine pesticides, chlorinated herbicides, and, if a transformer was identified, polychlorinated biphenyls (PCBs).

To satisfy EHS' recommendation to perform soil assessment activities at the Project Site, GP contracted Certified Environmental Consultants, Inc. (CEC) of Camarillo, California to perform preliminary soil assessment activities. In May and June 2020 CEC performed limited soil assessment activities at the Project Site and submitted an assessment report to EHS titled *Report of Phase II Site Assessment Findings*, dated July 16, 2020. The shallow soil samples collected at the Project Site by CEC are presented on Plate 2. In response to CEC's assessment report, in a letter dated August 6, 2020, EHS provided comments and directives to GP (refer to Appendix A).

Based on Padre's review of CEC's assessment report and EHS' directive letter, there is an occurrence of arsenic and organochlorine pesticide chlordane in shallow soil (1-foot or less) that exceeded the residential land use Cleanup Goals established for the Project Site (refer to Plate 3 - Site Plan Showing Distribution of Arsenic and Chlordane in Soil). The arsenic-containing soil is located at a discrete location at the Project Site and encompasses an area of approximately 0.2 acres. The chlordane-containing soil occurs over a broader area at the Project Site and covers an area of approximately 0.9 acres.

The purpose of this RAP is to provide the framework for planned soil remediation activities at the Project Site. The Remedial Action Objective (RAO) is remediation to an unrestricted land use standard with no Land Use Covenant (LUC). Impacted soils identified at the Project Site will be excavated and properly managed and disposed off-site at a permitted disposal facility. Verification soil samples will be collected from the limits of the excavation and chemically analyzed for the presence of arsenic and chlordane. The results of the verification soil samples will be compared to the Project Site Cleanup Goals, and if exceeded, excavation activities will continue. If verification soil samples are below the Cleanup Goals, then excavation activities will be deemed complete. The limits of the planned excavation are illustrated on Plate 4 – Site Plan Showing Planned Limits of Soil Excavation.

1.2 RAP ORGANIZATION

This RAP is organized as follows: Section 2.0 presents background information for the Project Site, including a discussion of the Project Site location, hydrology, geology, hydrogeology, and historical assessment activities; Section 3.0 presents the methodology for planned soil remediation activities; Section 4.0 provides the limitations of this document; and Section 5.0 provides the documents referenced within this report.

This RAP includes two appendices. Appendix A provides the August 6, 2020 EHS letter. Appendix B includes historical laboratory analytical reports and chain-of-custody documentation. Tables and plates with supporting information follow the text.

2.0 BACKGROUND

2.1 PROJECT SITE DESCRIPTION

The Project Site is located at the southwestern corner of the intersection of North Patterson Avenue and Calle Real, just north of Highway 101, within Santa Barbara, Santa Barbara County, California (refer to Plate 1). The Project Site has historically been utilized as an avocado orchard, and is identified with Santa Barbara County APN 069-525-022 (refer to Plate 2). The Project Site is approximately 1.5 acres in size, and is currently planned to be redeveloped for residential land use. The Project Site is bounded to the north and west by Calle Real, to the east by North Patterson Avenue, and to the south by a self-storage facility and office buildings (refer to Plate 2).

2.2 HYDROLOGY, GEOLOGY, AND HYDROGEOLOGY

The Project Site is located in the foothills between the Santa Ynez Mountains and the Santa Barbara Channel, and lies at an elevation of approximately 80 feet above mean sea level (MSL). The area of the Project Site slopes toward the south. No surface water bodies traverse the Project Site. The closest mapped surface water body to the Project Site is East Fork Maria Ygnacio Creek, which is located approximately 1,200 feet east of the Project Site (refer to Plate 1).

The Project Site is underlain by alluvium and colluvium of Holocene and late Pleistocene age (USGS, 2013). A geotechnical drill hole (Boring No. 3) was advanced to a total depth of 50 feet below ground surface (bgs) (CEC, 2020). Based on a review of the drill hole log for geotechnical Boring No. 3, soils encountered included interbedded mixtures of clay, silt, and sand.

The Project Site is located within the Goleta Groundwater Basin (GSI Water Solutions, Inc., 2016). Groundwater was not encountered within geotechnical Boring No. 3 that was advanced to a depth of approximately 50 feet bgs at the Project Site (CEC, 2020). In 2009 at a former service station located approximately 300 feet toward the southeast of the Project Site groundwater was measured at a depth of approximately 60 feet bgs, and was calculated to flow toward the southeast (The Source Group, Inc., 2009).

2.3 PREVIOUS SITE ASSESSMENT ACTIVITIES

In May and June 2020 CEC performed limited soil assessment activities at the Project Site and submitted an assessment report to EHS titled *Report of Phase II Site Assessment Findings*, dated July 16, 2020. In response to the CEC's assessment report in a letter dated August 6, 2020, EHS provided comments and directives to GP. Based on Padre's review of CEC's assessment report and EHS' directive letter, Padre provides the following summary.

- EHS identified several issues with the CEC's report titled *Report of Phase II Site Assessment Findings*, dated July 16, 2020. These issues included, but were not limited to, incorrect units presented in tables for the soil sample analytical results, incorrect interpretation of COPC exceedances, and inappropriate recommendation (i.e. Soil Management Plan) pertaining to the identified impacted soils at the Project Site. Padre created new tables and corrected the identified issues, which are included as Tables 1, 2, and 3 of this RAP. The historical laboratory analytical report and chain-of-custody documentation is provided as Appendix B.
- No transformers were identified at the Project Site. Therefore, PCBs were not included as a COPC and are not included within this RAP.
- A total of ten discrete-depth shallow soil samples (sample ID Nos. 1 through 10) were collected across the Project Site at depths of approximately 0.5 feet bgs.
- One drill hole (8-1) was advanced at the location of shallow soil sample No. 8 to a total approximate depth of 5 feet bgs to facilitate the collection of discrete-depth soil samples.
- A total of 13 soil samples were chemically analyzed for the presence of COPCs, including metals, organochlorine pesticides, and chlorinated herbicides.
- COPCs identified in soil at the Project Site that exceeded residential Cleanup Goals for the Project Site include arsenic and the organochlorine pesticide chlordane (refer to Plate 3). Based on the existing data, these impacts are limited to shallow soil (1-foot or less). Indicated concentrations of COPCs did not exceed established Total Threshold Limit Concentration (TTLC) values. Additionally, Soluble Threshold Limit Concentration (STLC) values were not exceeded by 10 times and Toxicity Characteristic Leaching Procedure (TCLP) values were not exceeded by 20 times (refer to Tables 1 and 2).
- Arsenic was indicated at the location of soil sample No. 8 at a concentration of 13 milligrams per kilogram (mg/kg), which is slightly above the California Department of Toxic Substance Control's (DTSC) Southern California background concentration of 12 mg/kg (DTSC, 2009). Chlordane was indicated at concentrations above its California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) Minimally Vegetated Area Environmental Screening Level (ESL) of 8.5 micrograms per kilogram (µg/kg) at a total of five soil sample locations (Nos. 2, 6, 7, 8, and 9).

- The arsenic-containing soil is located at a discrete location at the Project Site, and encompasses and area of approximately 0.2 acres. The chlordane-containing soil occurs over a broader area at the Project Site and covers an area of approximately 0.9 acres.
- Both lead and vanadium were indicated at concentrations above their established Tier 1 ESL, but EHS concluded that further action for these constituents was not warranted at this time due to the limited lateral extent of lead at the Project Site and that the site-wide 95% Upper Confident Level (UCL) for lead is below the Tier 1 ESL. Additionally, the identified lead concentration is below the Human Health Risk Residential ESL of 80 mg/kg. The vanadium concentrations are indicative of naturally occurring, background concentrations for the general region of the Project Site.

3.0 SOIL REMEDIATION METHODOLOGY

Presented below is the soil remediation methodology planned at the Project Site.

3.1 REMEDIAL ACTION OBJECTIVE AND CLEANUP GOALS

The RAO is soil remediation to an unrestricted land use standard with no LUC. To meet this RAO, the arsenic and chlordane impacted soil at the Project Site will be excavated to concentrations below the Cleanup Goals, and the excavated soil will be appropriately transferred for disposal at a permitted facility. Given the shallow nature of the planned excavation (1-foot depth), imported certified-clean soil may not be necessary; however, if the excavations require off-site imported backfill material, then the material will be certified-clean in accordance with the DTSC document titled *Information Advisory, Clean Imported Fill Material*, dated October 2001.

Exposure Point Concentration (EPC) will be calculated (if sufficient data points exist) per U.S. EPA Guidance. U.S. EPA's most current version of ProUCL will be used to calculate EPCs for arsenic and chlordane. ProUCL provides the means for calculating EPCs for data sets that include non-detects. When ProUCL calculates an EPC, it will recommend that an upper confidence limit (UCL) of 95% or greater is the best fit for the data presented (e.g. 97.5% or 99% UCL). The UCL recommended by ProUCL that best fits the data presented will be used as the EPC. Depending on a specific data set, it may not be appropriate to perform a UCL calculation. This is particularly true for very small data sets or for data sets with less than five detections. If it is not appropriate to calculate an EPC, then a point by point assessment will be conducted.

The Clean-Up Goals for this project are: 1) arsenic DTSC Southern California background concentration of 12 mg/kg; 2) chlordane Tier 1 ESL concentration of 8.5 µg/kg; and 3) flexibility to calculate EPCs for arsenic and/or chlordane, where appropriate.

3.2 PRE-REMEDIATION PLANNING ACTIVITIES

Pre-remediation planning activities include preparation of a site-specific health and safety plan (HASP), permitting activities, notifications, and soil remediation preparation activities, which are presented below.

3.2.1 Health and Safety Plan

Padre will prepare a site-specific HASP for the planned soil remediation activities at the Project Site. The HASP will include the procedures, equipment, and materials to be utilized to protect worker and community health and safety during the course of the soil remediation activities.

3.2.2 Permitting / Plans

Padre assumes that the soil remediation activities will be performed under the following permits / plans, which will be obtained by GP as part of the planned residential redevelopment activities:

- Grading Plan and Grading Permit from the County of Santa Barbara Planning and Building Department;
- Notice of Intent (NOI) – State Water Resources Control Board General Permit for Storm Water Discharges Associated with Construction or Land Disturbance Activities; and
- Storm Water Pollution Prevention Plan (SWPPP) or SWPPP Waiver.

Padre will prepare the following additional permit applications / documents, if necessary:

- County of Santa Barbara Air Pollution Control District (APCD) permit application package to obtain a Permit to Operate (PTO) for contaminated soil cleanup;
- Project fact sheet for the required 30-day public notification period, as well as the California Environmental Quality Act (CEQA) Notice of Exemption (NOE) that EHS will issue; and
- Supporting information for the waste profile for the non-hazardous soil planned for disposal at a permitted facility.

3.2.3 Notifications

Padre will coordinate the submittal of any and all required public notifications. Additionally, Padre will notify the appropriate regulatory agencies, including EHS and APCD, prior to GP initiating field activities.

3.2.4 Access

GP will provide Padre and the remedial construction contractor access to the Project Site to complete the project.

3.2.5 Site Restoration Area Preparation

Underground Service Alert. The Project Site boundary will be marked with white paint, and Underground Service Alert will be contacted at least 48 hours prior to the commencement of field activities.

Mobilization. Padre and GP's selected remedial construction contractor will mobilize personnel and equipment to perform the work described in this RAP. Mobilization will follow agency approval of the RAP, acquisition of the required permits, and community notification. Mobilization shall include, but shall not be limited to, the following:

- Establishing lines of communication on the project between Padre, subcontractors, and GP's remedial construction contractor;
- Reviewing the site-specific HASP and other safety-related information;
- Deploying personnel and equipment to the Project Site;
- Reviewing the conditions of any local, county and state permits required for the project; and
- Establishing formal work areas including an exclusion zone, support zone, decontamination area, staging areas, and potential soil stockpile and soil screening areas.

3.3 SOIL REMEDIATION ACTIVITIES

Padre's planned soil remediation activities are described below.

3.3.1 Air Monitoring

During the course of soil excavation activities, Padre will conduct monitoring of airborne particulate matter concentrations utilizing a Personal Data Real-time aerosol monitor / data loggers (PDR). This monitoring will be used to control worker exposure and off-site emissions in compliance with this RAP, the site-specific HASP, and APCD PTO requirements, if necessary. The proposed air monitoring program for the Project Site includes excavation area perimeter ambient air monitoring and work zone air monitoring. Air monitoring will be performed throughout the workday. Baseline conditions will be established for all monitored parameters. Calibration checks of monitoring equipment will be performed at a minimum of once per day.

3.3.2 Dust Control

Construction activities such as excavation, backfilling, grading operations, stockpiling soil, construction vehicle traffic, and wind blowing over disturbed soil may generate dust and particulate matter when the exposed soil surfaces are dry. In order to mitigate this, dust control measures have been developed and will be performed during field activities. GP's remedial construction contractor will employ the following dust control measures throughout the project:

- Reducing equipment speed while on the Project Site;
- Covering soil contained in roll-off bins or haul trucks entering and exiting the Project Site;
- Providing labor and equipment for watering of exposed or disturbed soil surfaces sufficient to suppress dust;
- Covering or wetting debris, soil, or other materials when not in use;
- Minimizing drop heights while loading and unloading soil;
- Cleaning vehicles and tires prior to leaving the Project Site;
- Sweeping adjacent streets of soil, if needed; and
- Suspending earth moving or other dust-producing activities during periods of high winds or when dust control measures are not able to prevent visible dust plumes.

If site-specific dust action levels are exceeded as identified in the APCD PTO, then engineering control(s) will be used to minimize dust generation. Alternatively, field activities may be temporarily ceased until more favorable conditions exist.

3.3.3 Soil Excavation, Transportation, and Disposal

GP's remedial construction contractor will provide the necessary construction equipment to complete the soil remediation activities. Padre staff will be on-site to observe and document the soil remediation activities to be performed at the Project Site. Currently, Padre estimates that approximately 800 to 1,500 cubic yards of non-hazardous soil will be excavated and disposed of off-site as part of the planned soil remediation activities. The depth of excavation will be to approximately 1-foot bgs. The limits of the planned excavation are illustrated on Plate 4, which may be revised based on the laboratory analytical results additional of additional soil assessment activities.

The remedial construction contractor, under supervision of Padre, will excavate the identified impacted soil areas to the recommended excavation depth. Padre will perform the required air monitoring activities. The remedial construction contractor will implement engineering controls (i.e., dust suppression) as necessary during the course of the soil excavation project. The impacted soil will be stockpiled or directly loaded into end-dump trucks and hauled off-site to a permitted disposal facility.

At the conclusion of the remedial excavation activities, verification soil samples will be collected from the limits of the excavation and chemically analyzed for the presence of arsenic and chlordane (refer to Section 3.3.4). The results of the verification soil samples will be compared to the Cleanup Goals, and if exceeded, excavation activities will continue. If verification soil samples are below the Cleanup Goals, then excavation activities will be deemed complete.

3.3.4 Verification Soil Sample Collection and Laboratory Analyses

Verification soil samples will be collected from remedial excavations at a frequency of one verification soil sample for approximately every 2,500 square feet (50-foot by 50-foot area) at the base of the excavation, as well as one verification soil sample from the excavation sidewalls every 50 linear feet. EHS will be notified prior to the collection of verification soil samples associated with arsenic and chlordane impacted soil removal activities. If EHS is not present during verification soil sampling activities, then photo-documentation of the verification soil sample locations will be performed by Padre.

Verification soil samples will be collected utilizing a slide hammer equipped with a stainless-steel core barrel sampler containing a 6-inch stainless steel sleeve. The stainless-steel soil sample sleeve will be retrieved from the core barrel by Padre staff wearing a pair of clean nitrile gloves, and Teflon® tape and plastic end caps will be placed over each end of the sleeve to seal the soil sample. The soil samples will be labeled and preserved on ice in the field in a chilled cooler containing ice. Chain-of-custody protocol will be utilized during sample handling and submittal to the laboratory.

Field sampling equipment will be cleaned before use, between sample locations, and after completion of fieldwork. Cleaning procedures will consist of a non-phosphate detergent wash,

two rinses with tap water, and a final de-ionized water rinse. Padre will also verify that equipment was clean by visually inspecting all decontaminated equipment.

Verification soil samples will be submitted for chemical analyses to a laboratory certified by the State of California Environmental Laboratory Accreditation Program (ELAP). All verification soil samples submitted for chemical analyses will be analyzed for chlordane by U.S. EPA Method 8081A. Verification samples collected within the limits of the arsenic impacted soil excavation area will be additionally chemically analyzed for the presence of arsenic by U.S. EPA Method 6010B (refer to Plate 4).

3.4 SURVEY

The soil excavation limits and verification sample locations will be surveyed using a hand-held GPS unit with sub-meter accuracy.

3.5 EXCAVATION BACKFILLING ACTIVITIES

At this time, given the shallow nature of the planned remedial excavation, backfilling of the excavation is not anticipated. After completion of the planned soil remediation activities, the Project Site will be prepared and graded to facilitate the planned residential development at the Project Site. If off-site backfill material is required for the remedial excavation, then the imported backfill soil will meet or exceed the requirements outlined by the DTSC document titled *Information Advisory, Clean Imported Fill Material*, dated October 2001. The soil sample analytical results will be reviewed and compared to Tier 1 ESLs, as well as published literature for naturally-occurring metals concentrations for the region for acceptance prior to use as a backfill source.

3.6 QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES

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

3.6.1 Field QA/QC Procedures

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

- COC records will be utilized to document sample collection and submittal to the laboratory for analysis. A COC record will accompany all samples submitted for chemical analyses; and
- Daily information regarding sample collection will be recorded on field data sheets. Sample types, sample identification numbers, and sample times will be collected and recorded on field data sheets.

3.6.2 Laboratory QA/QC Procedures

Laboratory QA/QC procedures include the following:

- Chemical analyses will be performed within the required holding time for all samples;

- A state-certified hazardous waste testing laboratory will conduct the required analysis; and
- The laboratory will provide the following information for each sample:
  - Method blank data;
  - Surrogate recovery, instrument tuning, and calibration data; and
  - Signed laboratory reports including the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum Reporting Limit.

3.7 SITE CLOSURE REPORT

The Site Closure Report will be signed and stamped by a California-licensed Professional Geologist and will include the following:

- A description of the Project Site location and physical setting;
- A summary of the soil remediation activities, including plates illustrating the surveyed limits of excavation and verification soil sample locations;
- Summary tables of verification soil sample laboratory analytical results;
- Copies of permits obtained for the project;
- Photographs of the work performed;
- A summary of the field monitoring data collected during the course of the project;
- Copies of waste manifests; and
- Rationale for requesting site closure.

4.0 LIMITATIONS

This document has been prepared for the sole benefit of Galileo Pisa, LLC. No other persons may rely on the findings of this report without the expressed written consent of Galileo Pisa, LLC.

In performing our professional services, we have attempted to apply present engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of work and in locale of the Project Site for similar type studies. Padre Associates, Inc. makes no warranty, express or implied.

The analyses and interpretations presented in this report have been developed based on the results from the review of existing information pertaining to the site, soil sampling at discrete locations at the Project Site, and the results from the laboratory analyses of the soil samples. It should be recognized that contamination can vary between sampling locations and between areas.

5.0 REFERENCES

CEC, 2020, *Report of Phase II Site Assessment Findings, For Assessor's Parcel Numbers 069-525-022 and 069-160-051, Located at the Southwestern Corner of the Intersection of Calle Real and North Patterson Avenue, Within an Unincorporated Area of Santa Barbara County, near the City of Santa Barbara, California*, dated July 16, 2020.

DTSC, 2001, *Information Advisory, Clean Imported Fill Material*, dated October 2001.

DTSC, 2009, *Determination of a Southern California Regional Background Arsenic Concentration in Soil*, dated January 2009.

EHS, 2020, *Phase II Report, 5317 Calle Real, Goleta, California 93111, SR# 0111643, APNs 069-525-022 and 069-160-051*, dated August 6, 2020.

GSI Water Solutions, Inc., 2016, *Groundwater Management Plan Goleta Groundwater Basin 2016 Update*, dated November 8, 2016.

RWQCB, 2019, Environmental Screening Levels, dated July 2019.

The Source Group, Inc., 2009, *Quarterly Status Monitoring Report, Second Quarter – 2009, Former Station No. Former 1872 Address, 80 N. Patterson Avenue, Goleta, California*, dated July 15, 2009.

USGS, 2013, *California State Waters Map Series—offshore of Coal Oil Point, California: U.S. Geological Survey, Scientific Investigations Map SIM-3302, scale 1:24,000*.

TABLES

Table 1
Summary of Soil Analytical Results for CAM-17 Metals
5317 Calle Real
Santa Barbara, Santa Barbara County, California

Sample ID	Date Collected	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	RWQCB Tier 1 ESL	**11**	**12 ***	**390**	**5**	**1.9**	**160**	**23**	**180**	**32**	**13**	**6.9**	**86**	**2.4**	**25**	**0.78**	**88.3 ****	**340**
	TTLC	**500**	**500**	**10,000**	**75**	**100**	**2,500**	**8,000**	**2,500**	**1000**	**20**	**3,500**	**2,000**	**100**	**500**	**700**	**2,400**	**5,000**
	STLC/TCLP	**15/--**	**5/5**	**100/100**	**0.75/--**	**1/--**	**5/5**	**80/--**	**25/--**	**5/5**	**0.2/0.2**	**350/--**	**20/--**	**1/1**	**5/5**	**7/7**	**24/24**	**250/250**
1	05/30/20	<0.500	**2.68**	**112**	<0.500	**1.12**	**26.4**	**7.09**	**16.3**	**8.27**	<0.0500	<0.500	**32.8**	<0.500	<0.500	<0.500	**29.9**	**48.7**
2	05/30/20	<0.500	**6.45**	**82.8**	<0.500	**1.18**	**22.4**	**6.52**	**88.7**	**33.5**	<0.0500	**0.555**	**25.1**	<0.500	<0.500	<0.500	**26.2**	**89.6**
3	05/30/20	<0.500	**4.06**	**78.5**	<0.500	**1.24**	**23.3**	**6.66**	**53.6**	**19.5**	<0.0500	<0.500	**25.5**	<0.500	<0.500	<0.500	**27.3**	**84.3**
4	05/30/20	<0.500	**5.26**	**79.2**	<0.500	**1.1**	**21.6**	**5.88**	**48.3**	**12.8**	<0.0500	<0.500	**22.9**	<0.500	<0.500	<0.500	**25.2**	**59.4**
5	05/30/20	<0.500	**2.87**	**52.1**	<0.500	**0.897**	**17.7**	**5.41**	**49**	**14.9**	<0.0500	<0.500	**19.8**	<0.500	<0.500	<0.500	**21.2**	**50.4**
6	05/30/20	**1.4**	**3.27**	**94.7**	<0.500	**1.16**	**24**	**6.41**	**28.5**	**16.3**	<0.0500	<0.500	**30.7**	<0.500	<0.500	<0.500	**30**	**69.9**
7	05/30/20	<0.500	**3.18**	**81.3**	<0.500	**1.2**	**22.9**	**6.11**	**37.4**	**15**	<0.0500	**0.526**	**23.8**	<0.500	<0.500	<0.500	**27.1**	**76**
8	05/30/20	<0.500	**13.1**	**60.8**	<0.500	**1.06**	**18.8**	**5.37**	**102**	**24.1**	<0.0500	<0.500	**20.8**	<0.500	<0.500	<0.500	**22.3**	**60.9**
9	05/30/20	<0.500	**4.51**	**66.2**	<0.500	**1.02**	**20.4**	**5.65**	**61.5**	**16.7**	<0.0500	<0.500	**21.4**	<0.500	<0.500	<0.500	**24.3**	**58.3**
10	05/30/20	<0.500	**3.52**	**79.2**	<0.500	**1.22**	**21.2**	**6.38**	**42.7**	**12.2**	<0.0500	<0.500	**23.9**	<0.500	<0.500	<0.500	**25.2**	**112**
8-1	06/19/20	<0.500	**4.08**	**96.7**	<0.500	**1.06**	**22**	**6.61**	**23.8**	**6.68**	<0.0500	<0.500	**26.3**	<0.500	<0.500	<0.500	**25.6**	**32.4**
8-3	06/19/20	<0.500	**3.15**	**97.9**	<0.500	**1.1**	**23.7**	**7.06**	**13**	**4.73**	<0.0500	<0.500	**28.9**	<0.500	<0.500	<0.500	**27.6**	**29.1**
8-5	06/19/20	<0.500	**4.79**	**88.7**	<0.500	**1.16**	**22.7**	**6.63**	**37**	**9.36**	<0.0500	<0.500	**27.3**	<0.500	<0.500	<0.500	**26.8**	**42.3**

Notes:
All results reported in milligrams per kilogram (mg/kg), except STLC and TCLP values in milligrams per liter (mg/L)
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
<15 = Not detected with laboratory reporting limit shown
J = estimated result; between the method detection limit and laboratory reporting limit
27 = Bold text indicates compound detected above laboratory reporting limit
13.1 = bold text and highlighted result concentration is greater than the Tier 1 ESL or respective regional background level
Tier 1 ESL = Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels (Tier 1 Values, Jan. 2019)
-- = Not established or not analyzed
* = Arsenic value of 12 mg/kg was obtained from *California DTSC - Determination of a Southern California Regional Background Arsenic Concentration in Soil and Naturally Occurring Concentration* https://www.dtsc.ca.gov/upload/background-arsenic.pdf
** = Thallium background value of 25 mg/kg (95th percentile) was obtained from *California DTSC - Naturally Occurring Concentrations of Inorganic Chemicals in Ground Water and Soil at California Air Force Installations. https://www.dtsc.ca.gov/assessingRisk/upload/Natural-Occur-Inorg-at-AF-Bases.pdf*

Table 2
Summary of Soil Analytical Results for Organochlorine Pesticides
5317 Calle Real
Santa Barbara, Santa Barbara County, California

Sample ID	Date Collected	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	alpha-Chlordane	gamma-Chlordane	Chlordane (tech)	beta-BHC	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
	Tier 1 ESL	**2671**	**330**	**1.1**	**2.4**	**--**	**8.5**	**8.5**	**8.5**	**--**	**--**	**0.5**	**9.8**	**--**	**--**	**1.1**	**--**	**--**	**--**	**120**	**0.18**	**13.4**	**508**
	TTLC	**1000**	**1000**	**1000**	**1400**	**--**	**2500**	**2500**	**2500**	**--**	**--**	**8000**	**--**	**--**	**--**	**200**	**--**	**--**	**--**	**4700**	**--**	**100000**	**5000**
	STLC / TCLP	**100 / --**	**100 / --**	**100 / --**	**140 / --**	**--**	**250 / 30**	**250 / 30**	**250 / 30**	**--**	**--**	**800**	**--**	**--**	**--**	**20 / 2**	**--**	**--**	**--**	**470 / 8**	**--**	**10000 / 10000**	**500 / 500**
1	05/30/20	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
2	05/30/20	**13**	<4.00	<4.00	<2.00	<2.00	**33.2**	**3.69**	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
3	05/30/20	<4.00	<4.00	**4.33**	<2.00	<2.00	**7.32**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
4	05/30/20	<4.00	<4.00	<4.00	<2.00	<2.00	**5.77**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
5	05/30/20	<4.00	<4.00	<4.00	<2.00	<2.00	**3.2**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
6	05/30/20	**5.4**	<4.00	<4.00	<2.00	<2.00	**13.5**	**2.16**	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
7	05/30/20	**6.63**	<4.00	<4.00	<2.00	<2.00	**10.6**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
8	05/30/20	**84.1**	<4.00	**4.94**	<2.00	<2.00	**180**	**20.9**	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
9	05/30/20	<4.00	**4.29**	<4.00	<2.00	<2.00	**11.1**	**2.14**	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
10	05/30/20	<4.00	<4.00	<4.00	<2.00	<2.00	**6.06**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
8-1	06/19/20	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
8-3	06/19/20	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170
8-5	06/19/20	<4.00	<4.00	<4.00	<2.00	<2.00	**5.24**	<2.00	<100	<2.00	<2.00	<4.00	<2.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	<2.00	<4.00	<170

Notes:
All results reported in micrograms per kilogram (µg/kg), except STLC and TCLP values in micrograms per liter (µg/L)
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
<15 = not detected with laboratory reporting limit shown
J = estimated result; between the method detection limit and laboratory reporting limit
5 = bold text indicates result above laboratory reporting limit
5 = bold text and highlighted result indicates concentration is greater than the RWQCB Tier 1 ESL
Tier 1 ESL = Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels (Tier 1 Values, Jan. 2019), residential land use, shallow soil exposure
-- = Not established

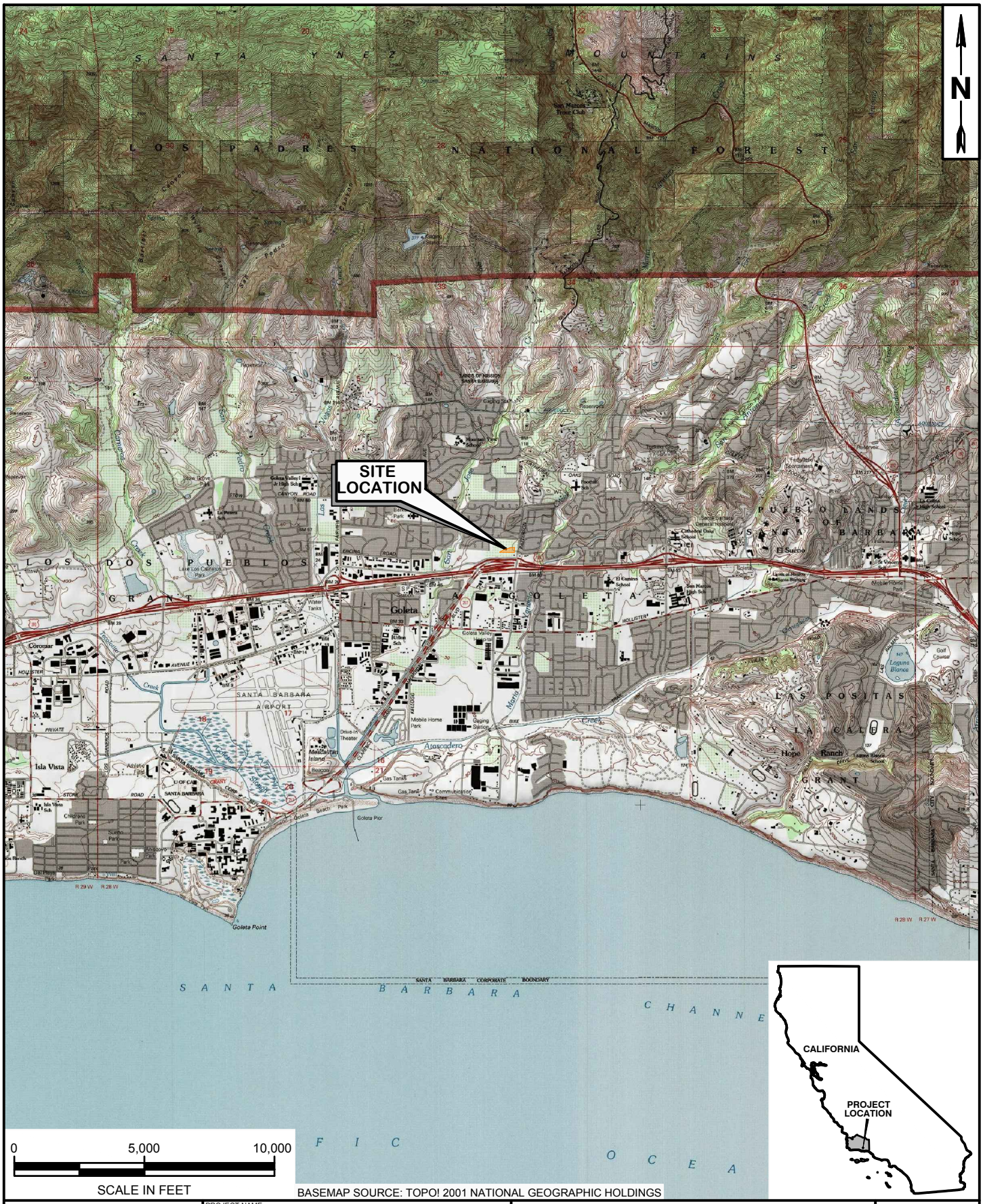
Table 3
Summary of Soil Analytical Results for Chlorinated Herbicides
5317 Calle Real
Santa Barbara, Santa Barbara County, California

Sample ID	Date Collected	2,4-D	2,4-DB	Dalapon	Dicamba	Dichloroprop	Dinoseb	2,4,5-T	2,4,5-TP (Silvex)
	Residential RSL	700	1900	1900	1900	--	63	630	--
1	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
2	05/30/20	<0.039	<0.077	<0.097	<0.0039	<0.039	<0.014	<0.0058	<0.0058
3	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
4	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
5	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
6	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
7	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
8	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
9	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030
10	05/30/20	<0.020	<0.040	<0.050	<0.0020	<0.020	<0.0070	<0.0030	<0.0030

Notes:
All results reported in milligrams per kilogram (mg/kg)
<15 = not detected with laboratory reporting limit shown
J = estimated result; between the method detection limit and laboratory reporting limit
5 = bold text indicates result above laboratory reporting limit
Residential RSL = U.S. Environmental Protection Agency Region 9, Regional Screening Levels for Residential Sites target hazard quotients (THQ) of 1.0, May 2020
There are no Tier 1 ESLs for Chlorinated Herbicides for Residential RSLs were used.
-- = Not established

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PLATES



padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Galileo Pisa, LLC
5317 Calle Real,
Santa Barbara,
Santa Barbara County, CA

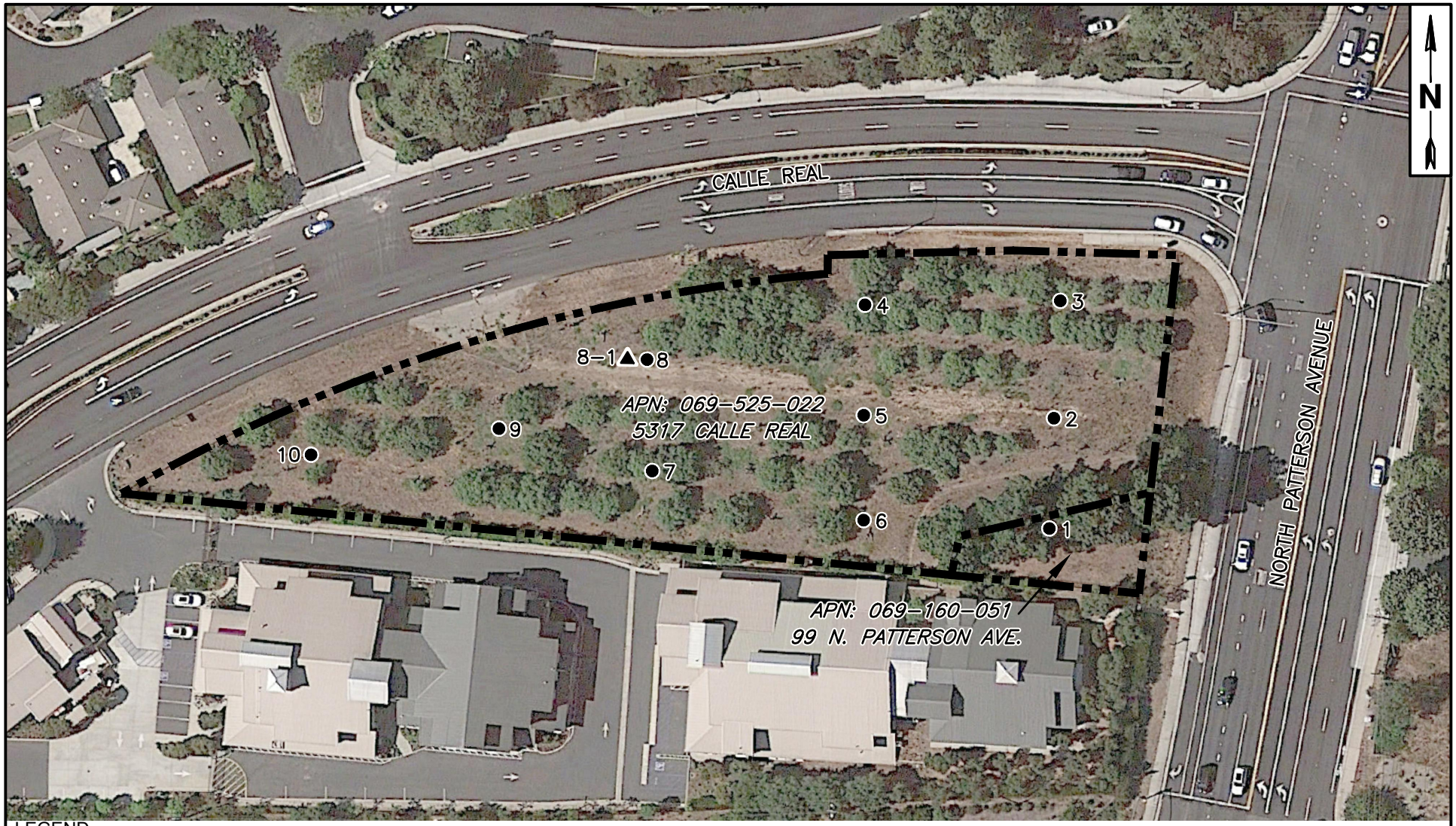
PROJECT NUMBER: 2001-7261

DATE: August 2020

SITE LOCATION MAP

PLATE 1

Z:\Current Projects\2001-7261 The Carey Group - 5317 Calle Real\Graphics\The Carey Group.dwg, 8/11/2020 2:51:06 PM



LEGEND

- PROJECT SITE (APPROXIMATE PARCEL BOUNDARY)
- 8 ● SURFACE SAMPLE LOCATION
- 8–1 ▲ HAND-AUGER DRILL HOLE LOCATION

NOTES:

1. BASEMAP SOURCE: GOOGLE EARTH PRO; IMAGE DATE 8/19/2019
2. ASSESSMENT LOCATIONS ARE APPROXIMATE AND BASED ON CERTIFIED ENVIRONMENTAL CONSULTANTS, INC. REPORT DATED 7/16/20.

0 80 160

SCALE IN FEET

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Galileo Pisa, LLC
5317 Calle Real,
Santa Barbara,
Santa Barbara County, CA

PROJECT NUMBER: 2001-7261

DATE: August 2020

SITE PLAN SHOWING SOIL ASSESSMENT LOCATIONS

PLATE 2

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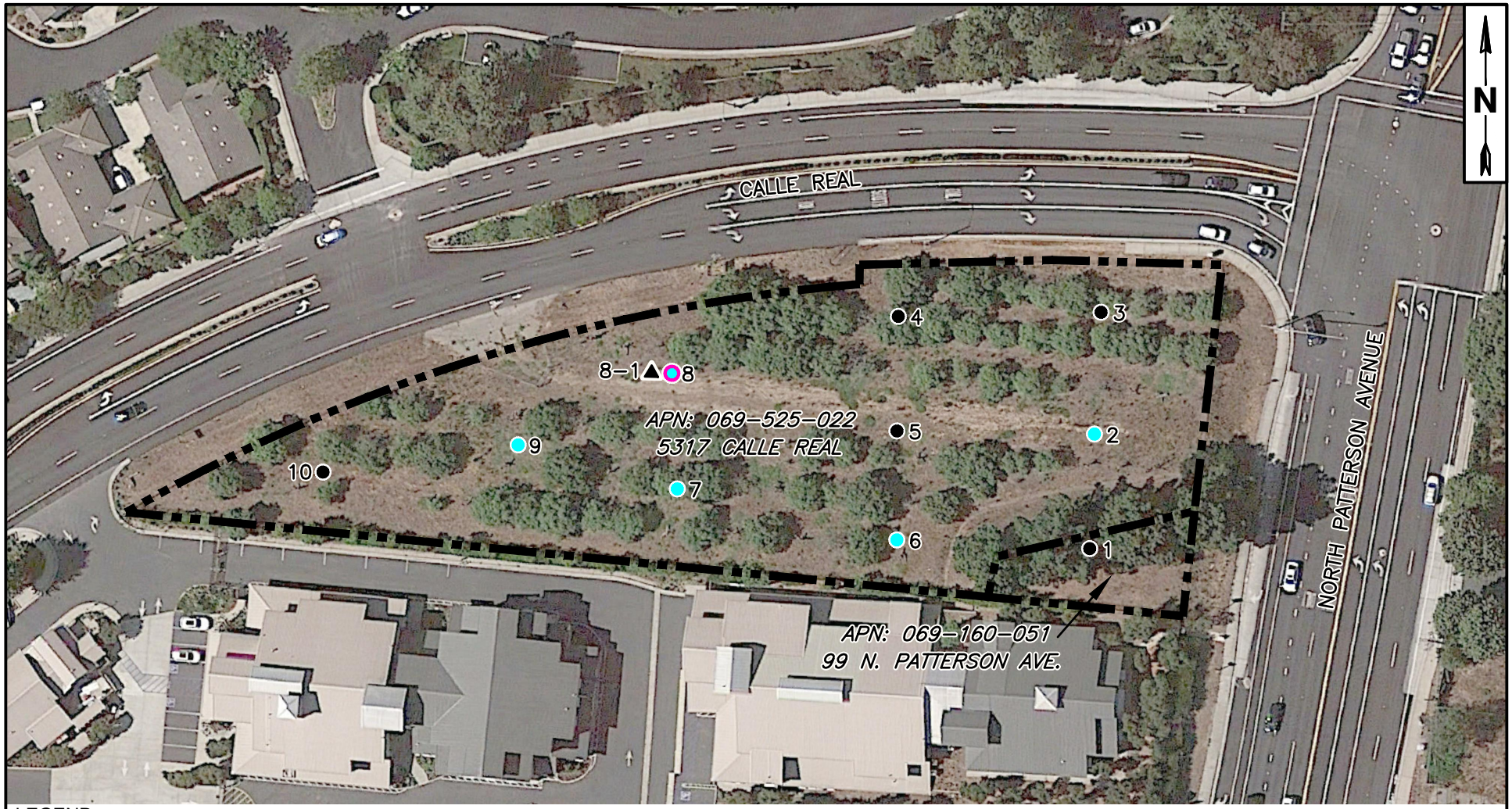


LEGEND

- PROJECT SITE (APPROXIMATE PARCEL BOUNDARY)
- 8 ● SURFACE SAMPLE LOCATION
- 8-1▲ HAND-AUGER DRILL HOLE LOCATION
- EXCEEDS CHLORDANE TIER 1 ESL OF 8.5 ug/kg
- EXCEEDS ARSENIC DTSC VALUE OF 12 mg/kg

NOTES:

1. BASEMAP SOURCE: GOOGLE EARTH PRO; IMAGE DATE 8/19/2019
2. ASSESSMENT LOCATIONS ARE APPROXIMATE AND BASED ON CERTIFIED ENVIRONMENTAL CONSULTANTS, INC. REPORT DATED 7/16/20.
3. ug/kg = MICROGRAMS PER KILOGRAM
4. mg/kg = MILLIGRAMS PER KILOGRAM

0 80 160

SCALE IN FEET

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Galileo Pisa, LLC
5317 Calle Real,
Santa Barbara,
Santa Barbara County, CA

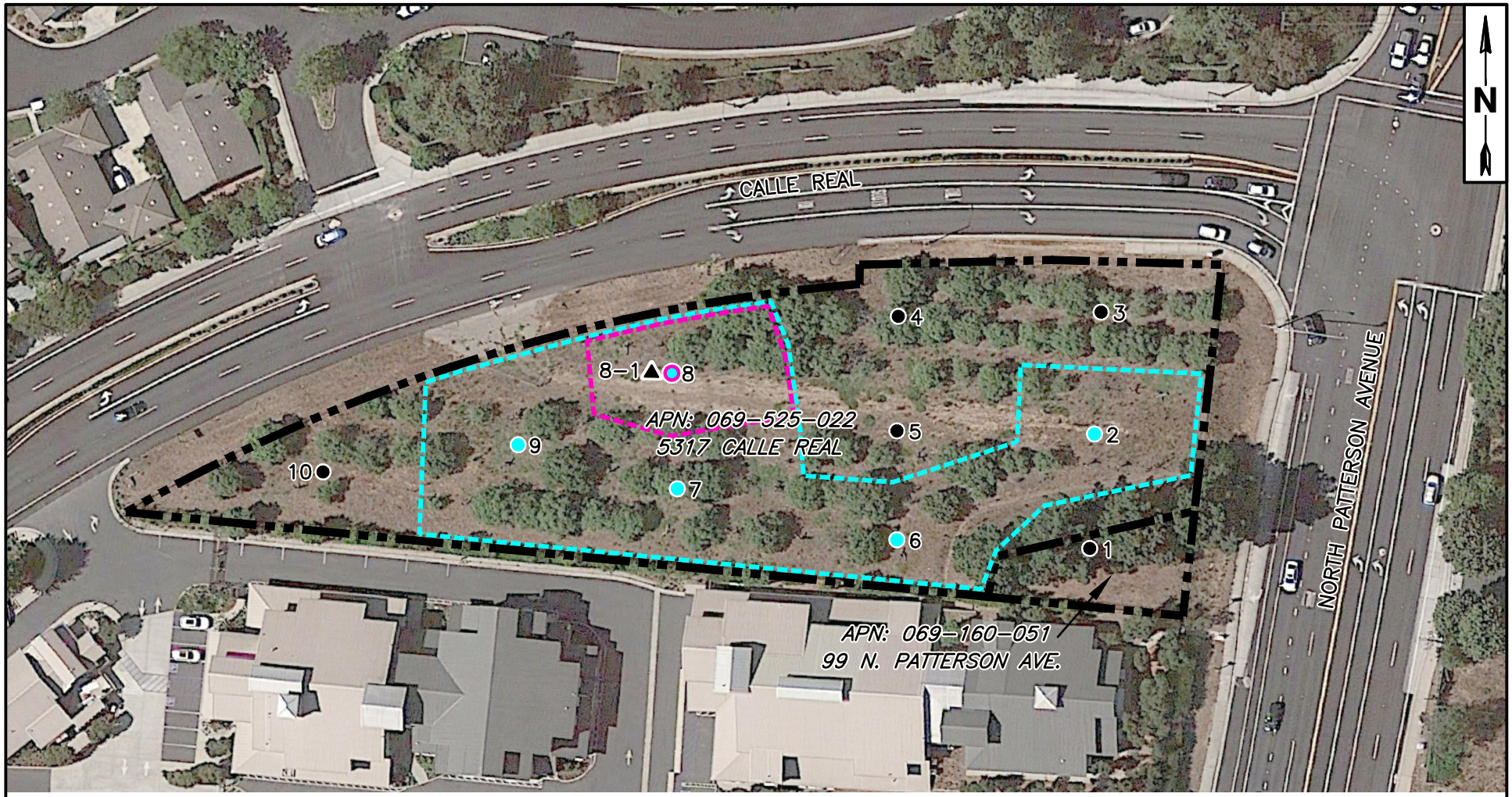
PROJECT NUMBER: 2001-7261

DATE: August 2020

SITE PLAN SHOWING DISTRIBUTION OF ARSENIC AND CHLORDANE IN SOIL

PLATE 3

Z:\Current Projects\2001-7261 The Carey Group - 5317 Calle Real\Graphics\The Carey Group.dwg, 8/12/2020 2:48:42 PM



LEGEND

- PROJECT SITE (APPROXIMATE PARCEL BOUNDARY)
- 8 ● SURFACE SAMPLE LOCATION
- 8-1▲ HAND-AUGER DRILL HOLE LOCATION
- EXCEEDS CHLORDANE TIER 1 ESL OF 8.5 ug/kg
- EXCEEDS ARSENIC DTSC VALUE OF 12 mg/kg
- ESTIMATED LIMITS OF CHLORDANE IMPACTED SOIL EXCAVATION
- ESTIMATED LIMITS OF ARSENIC IMPACTED SOIL EXCAVATION

NOTES:

1. BASEMAP SOURCE: GOOGLE EARTH PRO; IMAGE DATE 8/19/2019
2. ASSESSMENT LOCATIONS ARE APPROXIMATE AND BASED ON CERTIFIED ENVIRONMENTAL CONSULTANTS, INC. REPORT DATED 7/16/20.
3. ug/kg = MICROGRAMS PER KILOGRAM
4. mg/kg = MILLIGRAMS PER KILOGRAM

0 80 160

SCALE IN FEET

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: Galileo Pisa, LLC
5317 Calle Real,
Santa Barbara,
Santa Barbara County, CA

PROJECT NUMBER: 2001-7261

DATE: August 2020

SITE PLAN SHOWING PLANNED LIMITS OF SOIL EXCAVATION

PLATE 4

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APPENDIX A
EHS LETTER DATED AUGUST 6, 2020

Santa Barbara County
PUBLIC Health
DEPARTMENT

Environmental Health Services

225 Camino del Remedio ◆ Santa Barbara, CA 93110
805/681-4900 ◆ FAX 805/681-4901

2125 S. Centerpointe Pkwy. #333 ◆ Santa Maria, CA 93455-1340
805/346-8460 ◆ FAX 805/346-8485

Van Do-Reynoso, MPH, PhD *Director*
Suzanne Jacobson, CPA *Chief Financial Officer*
Paige Batson, MA, PHN, RN *Deputy Director*
Douglas Metz, DPM, MPH *Deputy Director*
Polly Baldwin, MD, MPH *Medical Director*
Henning Ansorg, M.D. *Health Officer*
Darrin Eisenbarth *Deputy Director*

Lawrence Fay *Director of Environmental Health*

August 6, 2020

Ms. Trudi G. Carey
The Carey Group
5325 Calle Real
Santa Barbara, CA 93111
(trudi@careygroupinc.com)

Subject: Phase II Report
5317 Calle Real, Goleta, California 93111
SR# 0111643
APNs 069-525-022 and 069-160-051

Dear Ms. Carey:

The Santa Barbara County Public Health Department, Environmental Health Services (EHS) Site Mitigation Unit has reviewed the July 16, 2020 document prepared by your consultant, Certified Environmental Consultants, Inc., titled *Report of Phase II Site Assessment Findings, For Assessor's Parcel Numbers 069-525-022 and 069-160-051, Located at the Southwestern Corner of the Intersection of Calle Real and North Patterson Avenue, Within an Unincorporated Area of Santa Barbara County, near the City of Santa Barbara, California* (*Report*).

A Phase I report prepared for this site indicated that the site was used as an avocado orchard and may have had an electrical transformer on it. A residential development is planned for the site. Based upon this information, EHS recommended soil sampling across the site for the following Constituents of Potential Concern (COPCs): metals, organochlorine pesticides, chlorinated herbicides, and, if a transformer was identified, polychlorinated biphenyls (PCBs). The *Report* documented the collection of ten initial near surface samples in the orchard area for metals, organochlorine pesticides, and chlorinated herbicides. Based upon the initial results, three vertical samples were collected at the sample location with the highest pesticides. The transformer did not exist, so no sampling for PCBs was conducted.

The sample results indicated the presence of the organochlorine pesticides alpha-chlordane, gamma-chlordane, 4,4-DDD, 4,4-DDE, and 4,4 DDT and elevated levels of select metals. Total chlordane was detected in 10 of the 13 samples at concentrations

ranging from, 3.20 to 200.9 ug/kg. The Tier 1 Environmental Screening Level (ESL) for total chlordane is 8.5 ug/kg and is based upon terrestrial habitat levels, with the human health risk ESL for a residential scenario being 480 ug/kg. 4,4-DDD was detected in 4 of the 13 samples at concentrations ranging from 5.40 to 84.1 ug/kg, which is well below the Tier 1 ESL for 4,4-DDD of 2,700 ug/kg. 4,4-DDE was detected in 1 of the 13 samples at 4.29 ug/kg. The Tier 1 ESL for 4,4-DDE is 330 ug/kg. 4,4-DDT was detected in 2 of the 13 samples at 4.33 and 4.94 ug/kg which exceeds the Tier 1 ESL for 4,4-DDT of 1.1 ug/kg. This Tier 1 value is also based upon terrestrial habitat levels, with the human health risk ESL for a residential scenario at 1900 ug/kg. Lead was detected in 1 of the 13 samples at a concentration above its Tier 1 ESL. Arsenic and Vanadium were also detected in each of the 13 samples at concentrations above their respective Tier 1 ESLs.

The *Report* concludes that arsenic and vanadium were indicative of background concentrations. For the organochlorine pesticides, the *Report* notes that that these compounds attenuate with depth. As for the COPCs that are above their respective Tier 1 ESLs, no analysis or evaluation is performed other than to state that "*these "lookup" tables are intended for use as preliminary, conservative-by-design values, and specifically are not intended for use in making remediation-related decisions"*. The *Report* recommends preparing a site-specific soil management plan and using the excavated impacted soil under the building pad or parking/driving area and exporting surplus soil as hazardous or otherwise-regulated waste.

After careful review of the *Report* and site file, EHS has the following comments and directives:

1. EHS' review of the *Report* was impeded due to the following issues:
    a. The incorrect units were used in the text of the *Report* for the organochlorine pesticides. The *Report* listed these constituents as being reported in mg/kg. This would have resulted in most of the site's upper foot of soil containing hazardous waste levels of chlordane. A review of the laboratory data indicated that the reporting units were actually in ug/kg, which is three orders of magnitude less in concentration. This error has significant consequences with respect to remediation alternatives at the site.
    b. The tables did not have units listed for the values presented. This was a particular issue for Table 2- Organochlorine Pesticides. This Table did list the ESLs used for screening comparisons in mg/kg, but the detected values that were presented were actually in ug/kg. This gave the incorrect impression that the pesticides were prevalent in higher concentrations at the site that they actually were.
    c. The tables used "ND" to depict samples that were below reporting limits. The reporting limits were not shown on the tables. EHS has discouraged the use of "ND" in tables since the mid-2000s. The preferred method is to list the reporting limit with a less than symbol (e.g. <5.0).
    d. None of the figures contained data generated from this investigation. Thus, no presentation of the spatial distribution or data analysis was provided in the *Report*.
    e. Where ESLs are not available, US EPA Regional Screening Levels can be used as screening levels. Additionally, the constituent concentrations should

have been compared to hazardous waste criteria. No evaluation or analysis of the COPCs were made with respect to the screening levels.

2. The *Report* states that arsenic is indicative of background levels. However, a review of the data suggests that the 0.5- foot sample at location 8 is above the range of other samples at the site. This sample has a concentration of 13 mg/kg, which is above the Department of Toxic Substance Control's (DTSC) accepted upper limit background of 11 mg/kg. The concentration of arsenic drops significantly in the 1-, 3-, and 5- foot depths. Additionally, this sample contains the highest concentrations of pesticides at the site. This suggests that the arsenic is anthropogenically derived and possibly related to an arsenic based pesticide due to the previous site use as an orchard. EHS requires this area of arsenic to be removed prior to development.

3. Lead was detected at 33.5 mg/kg at location 2, which is above the Tier 1 ESL of 32 mg/kg. The site-wide 95% Upper Confident Level (UCL) is well below this screening level. A review of the ESL tables indicates that the Tier 1 ESL is derived from lead exposure to mammals and birds. Due to the limited lateral extent of lead at this location and the site-wide 95% UCL below the Tier 1 ESL, it is unlikely that the lead would provide a significant impact to mammals and birds. Additionally, this concertation is below the Human Health Risk Residential ESL of 80 mg/kg. Further evaluation of lead at the site is not warranted, at this time.

4. EHS concurs that although vanadium concentrations are above its Tier 1 ESL, the concentrations are indicative of background levels and further evaluation is not warranted, at this time.

5. The Organochlorine Pesticides 4,4-DDD and 4,4-DDE were below their respective Tier 1 ESLs. 4,4-DDT was above its Tier 1 ESL. However, this screening level is for Significantly Vegetated Areas. This project would quality as a Minimally Vegetated Area and therefore, 4,4-DDT would be below the proper screening level. Further evaluation of these COPCs are not warranted, at this time.

6. Chlordane was detected in soil at levels that would not characterize it as hazardous waste, but exceeded its Tier 1 ESL. It appears that chlordane is generally present in the upper 1 foot of soil at the site, with one minor concentration detected at 5 feet at location 8. However, there are five areas that are above the Minimally Vegetated Area ESL of 8.5 ug/kg. The *Report* has recommended that the soil with elevated chlordane can be used as fill material under the building or driveway/parking area and suggested preparing a soils management plan to accomplish this task. EHS does not oppose the general idea, however, as this is a somewhat involved process, EHS requires a Remedial Action Plan rather than a soil management plan. The soil with elevated chlordane would have to be segregated and confirmation sampling performed to confirm its removal. The areas where chlordane would remain would need to have a 95% UCL below 8.5 ug/kg. Any excess soil containing elevated chlordane not placed under a building or parking area would have to be transported offsite for proper disposal.

7. EHS requires a Remedial Action Plan for this site that address the above issues. You can enroll in EHS' Voluntary Remedial Oversight Program, or contact either Central Coast Regional Water Quality Control Board or DTSC for their oversight.

If you have any questions regarding the aforementioned, please do not hesitate to call me at (805) 346-8216. Written correspondence regarding this matter should be sent to EHS at 2125 S. Centerpointe Parkway, Room 333, Santa Maria, CA 93455, via facsimile to (805) 346-8485, or via email at tom.rejzek@sbcphd.org).

Sincerely,

Thomas M. Rejzek
Professional Geologist #6461
Certified Hydrogeologist #601
LUFT/SMU Programs

ec: Mr. Sean Stewart, Santa Barbara County Planning Department(sestewart@co.santa-barbara.ca.us)
Mr. David Johannes, CEC (cecdj@aol.com)

tmr:mlc SR011643 08-20

APPENDIX B
HISTORICAL LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

09 June 2020

David Johannes

Certified Enviro. Consultants, Inc.

1206 Harris Ave

Camarillo, CA 93010

Work Order #: 2006013

Project Name: 99PATT2

Project ID: 20-2160

Site Address:

Enclosed are the results of analyses for samples received by the laboratory on June 02, 2020. If you have any questions concerning this report, please feel free to contact us.

Rojert G. Araghi

Laboratory Director

CEC

Certified Environmental Consultants, Inc.
1206 Harris Avenue
Camarillo, CA 93010
Telephone: 805-388-8970
E-Mail: cecdj@aol.com

Chain of Custody

ASL JOB # 2006013

Project Number: 20-2160 | Project Name: 99PATT2
Project Manager: DAVID JOHANNES
Client Name: CAREY GRP.

Analyses Requested: ORGANOCHL. PESTS. (8081A) | CHLOR. HERBS. (8151A) | TITLE 22 METALS (6010B)

Turn-around time:
__ 24-Hour RUSH
__ 48-Hour RUSH
X Normal TAT

Lab. I.D. # (Lab. use only)	Sample Description (As it should appear on analytical report)	Date Sampled	Time Sampled	Sample Matrix	Containers (# and type)	ORGANOCHL. PESTS. (8081A)	CHLOR. HERBS. (8151A)	TITLE 22 METALS (6010B)	Remarks/ Special Instructions
2006013-01	1	5/30/20	11:40	SOIL	(1) TUBE	X	X	X	
2006013-02	2					X	X	X	
2006013-03	3					X	X	X	
2006013-04	4					X	X	X	
2006013-05	5					X	X	X	
2006013-06	6					X	X	X	
2006013-07	7					X	X	X	
2006013-08	8					X	X	X	
2006013-09	9					X	X	X	
2006013-10	10		12:50			X	X	X	

	Date	Time
Relinquished by: (Sampler's Signature) David Johannes	6/2/20	13:15
Received by: Janet Chin	6-2-20	13:15
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the above-specified analyses.		
Relinquished by:	Date	Time
Received by:	Date	Time
Relinquished by:	Date	Time
Received by:	Date	Time

Sample Delivery Conditions:
Samples chilled? ✓Yes __No
Custody seals? __Yes ✓No
All sample containers intact? ✓Yes __No
By: __Courier __UPS/Fed Ex ✓Hand carried

Sample Disposal:
__ Client will pick up
__ Return to client
X Lab disposal

Laboratory Notes:

COC.frm

Job# 2006013

ASL Sample Receipt Form

Client: Certified Environmental Consultants, Inc.

Date: 6-2-2020

Sample Information:

Temperature: 5.2 °C ☐ Blank ☒ Sample

Custody Seal: ☐ Yes ☒ No ☐ Not Available

Received Within Holding Time: ☒ Yes ☐ No

Container:

Proper Containers and Sufficient Volume: ☐ Yes ☐ No

Soil: ☐ 4oz ☐ 8oz ☒ Sleeve ☐ VOA

Water: ☐ 500AG ☐ 1AG ☐ 125PB ☐ 250PB ☐ 500PB ☐ VOA ☐ Other _____

Air: ☐ Tedlar®

Sample Containers Intact: ☒ Yes ☐ No

Trip Blank ☐ Yes ☐ No

Chain-of-Custody (COC):

Received: ☒ Yes ☐ No

Samplers Name: ☒ Yes ☐ No

Container Labels match COC: ☒ Yes ☐ No

COC documents received complete: ☒ Yes ☐ No

Proper Preservation Noted: ☒ Yes ☐ No

Completed By: Janet Chin

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

ANALYTICAL SUMMARY REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1	2006013-01	Solid	05/30/2020 11:40	06/02/2020 13:15
2	2006013-02	Solid	05/30/2020 11:40	06/02/2020 13:15
3	2006013-03	Solid	05/30/2020 11:40	06/02/2020 13:15
4	2006013-04	Solid	05/30/2020 11:40	06/02/2020 13:15
5	2006013-05	Solid	05/30/2020 11:40	06/02/2020 13:15
6	2006013-06	Solid	05/30/2020 11:40	06/02/2020 13:15
7	2006013-07	Solid	05/30/2020 11:40	06/02/2020 13:15
8	2006013-08	Solid	05/30/2020 11:40	06/02/2020 13:15
9	2006013-09	Solid	05/30/2020 11:40	06/02/2020 13:15
10	2006013-10	Solid	05/30/2020 12:50	06/02/2020 13:15

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 1

Laboratory Sample ID: 2006013-01 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**2.68**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**112**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.12**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**26.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**7.09**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**16.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**8.27**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**32.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**29.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**48.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A

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Amolk Brar, Lab Manager

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Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 1

Laboratory Sample ID: 2006013-01 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 10:59	AY	8081A
Surrogate: Decachlorobiphenyl			*104 %*	*43-169*		3545	06/03/2020 10:59	AY	*8081A*

Analytical Results

Client Sample ID: 2

Laboratory Sample ID: 2006013-02 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**6.45**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**82.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.18**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**22.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**6.52**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**88.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**33.5**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	**0.555**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**25.1**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**26.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**89.6**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
gamma-Chlordane	**3.69**		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
alpha-Chlordane	**33.2**		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
4,4´-DDD	**13.0**		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 2

Laboratory Sample ID: 2006013-02 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 11:12	AY	8081A
Surrogate: Decachlorobiphenyl			*122 %*		*43-169*	3545	06/03/2020 11:12	AY	*8081A*

Analytical Results

Client Sample ID: 3

Laboratory Sample ID: 2006013-03 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**4.06**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**78.5**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.24**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**23.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**6.66**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**53.6**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**19.5**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**25.5**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 3

Laboratory Sample ID: 2006013-03 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Vanadium	**27.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**84.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
alpha-Chlordane	**7.32**		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
4,4´-DDT	**4.33**		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 11:25	AY	8081A
Surrogate: Decachlorobiphenyl			*107 %*	*43-169*		3545	06/03/2020 11:25	AY	*8081A*

Analytical Results

Client Sample ID: 4

Laboratory Sample ID: 2006013-04 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**5.26**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**79.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B

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Amolk Brar, Lab Manager

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Environmental Testing Services
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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 4

Laboratory Sample ID: 2006013-04 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.10**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**21.6**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**5.88**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**48.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**12.8**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**22.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**25.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**59.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
alpha-Chlordane	**5.77**		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 11:38	AY	8081A
Surrogate: Decachlorobiphenyl			*96.0 %*		*43-169*	3545	06/03/2020 11:38	AY	*8081A*

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Amolk Brar, Lab Manager

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 5

Laboratory Sample ID: 2006013-05 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**2.87**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**52.1**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**0.897**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**17.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**5.41**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**49.0**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**14.9**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**19.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**21.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**50.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
alpha-Chlordane	**3.20**		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A

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Amolk Brar, Lab Manager

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 5

Laboratory Sample ID: 2006013-05 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 11:51	AY	8081A
Surrogate: Decachlorobiphenyl			*102 %*	*43-169*		3545	06/03/2020 11:51	AY	*8081A*

Analytical Results

Client Sample ID: 6

Laboratory Sample ID: 2006013-06 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	**1.40**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**3.27**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**94.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.16**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**24.0**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**6.41**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**28.5**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**16.3**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**30.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**30.0**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**69.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
gamma-Chlordane	**2.16**		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
alpha-Chlordane	**13.5**		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
4,4´-DDD	**5.40**		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A

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Amolk Brar, Lab Manager

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 6

Laboratory Sample ID: 2006013-06 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 12:04	AY	8081A
Surrogate: Decachlorobiphenyl			*102 %*		*43-169*	3545	06/03/2020 12:04	AY	*8081A*

Analytical Results

Client Sample ID: 7

Laboratory Sample ID: 2006013-07 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**3.18**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**81.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.20**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**22.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**6.11**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**37.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**15.0**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	**0.526**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**23.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B

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Amolk Brar, Lab Manager

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 7

Laboratory Sample ID: 2006013-07 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Vanadium	**27.1**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**76.0**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
alpha-Chlordane	**10.6**		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
4,4´-DDD	**6.63**		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 12:17	AY	8081A
Surrogate: Decachlorobiphenyl			*134 %*		*43-169*	3545	06/03/2020 12:17	AY	*8081A*

Analytical Results

Client Sample ID: 8

Laboratory Sample ID: 2006013-08 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**13.1**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**60.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B

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Amolk Brar, Lab Manager

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 8

Laboratory Sample ID: 2006013-08 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.06**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**18.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**5.37**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**102**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**24.1**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**20.8**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**22.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**60.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
gamma-Chlordane	**20.9**		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
alpha-Chlordane	**180**		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
4,4´-DDD	**84.1**		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
4,4´-DDT	**4.94**		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 12:30	AY	8081A
Surrogate: Decachlorobiphenyl			*117 %*	*43-169*		3545	06/03/2020 12:30	AY	*8081A*

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Amolk Brar, Lab Manager

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Environmental Testing Services
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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 9

Laboratory Sample ID: 2006013-09 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**4.51**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**66.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.02**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**20.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**5.65**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**61.5**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**16.7**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**21.4**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**24.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**58.3**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
gamma-Chlordane	**2.14**		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
alpha-Chlordane	**11.1**		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
4,4´-DDE	**4.29**		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A

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Amolk Brar, Lab Manager

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Environmental Testing Services
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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 9

Laboratory Sample ID: 2006013-09 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 12:43	AY	8081A
Surrogate: Decachlorobiphenyl			*91.7 %*	*43-169*		3545	06/03/2020 12:43	AY	*8081A*

Analytical Results

Client Sample ID: 10

Laboratory Sample ID: 2006013-10 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00245		Prepared: 06/03/2020 11:40		
Mercury	ND		0.0500	mg/kg	1	7471A	06/03/2020 17:12	LVE	7471A
Total ICP Metals				Batch ID:	BF00246		Prepared: 06/03/2020 11:46		
Antimony	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Arsenic	**3.52**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Barium	**79.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cadmium	**1.22**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Chromium	**21.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Cobalt	**6.38**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Copper	**42.7**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Lead	**12.2**		0.250	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Nickel	**23.9**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Vanadium	**25.2**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Zinc	**112**		0.500	mg/kg	1	3050B	06/03/2020 18:16	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
Aldrin	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
alpha-Chlordane	**6.06**		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Analytical Results

Client Sample ID: 10

Laboratory Sample ID: 2006013-10 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00117		Prepared: 06/02/2020 15:45		
delta-BHC	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/03/2020 12:57	AY	8081A
Surrogate: Decachlorobiphenyl			*107 %*		*43-169*	3545	06/03/2020 12:57	AY	*8081A*

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Total Mercury (CVAA) - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00245 - 7471A - 7471A										
Blank (BF00245-BLK1)				Prepared & Analyzed: 06/03/202						
Mercury	ND	0.0500	mg/kg							
LCS (BF00245-BS1)				Prepared & Analyzed: 06/03/202						
Mercury	0.102	0.0500	mg/kg	0.100		102	80-120			
LCS Dup (BF00245-BSD1)				Prepared & Analyzed: 06/03/202						
Mercury	0.110	0.0500	mg/kg	0.100		110	80-120	7.51	20	

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00246 - 3050B - SW846 6010B										
Blank (BF00246-BLK1)				Prepared & Analyzed: 06/03/202						
Antimony	ND	0.500	mg/kg							
Arsenic	ND	0.250	"							
Barium	ND	0.500	"							
Beryllium	ND	0.500	"							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Cobalt	ND	0.500	"							
Copper	ND	0.500	"							
Lead	ND	0.250	"							
Molybdenum	ND	0.500	"							
Nickel	ND	0.500	"							
Selenium	ND	0.500	"							
Silver	ND	0.500	"							
Thallium	ND	0.500	"							
Vanadium	ND	0.500	"							
Zinc	ND	0.500	"							
LCS (BF00246-BS1)				Prepared & Analyzed: 06/03/202						
Antimony	0.982	0.0100	mg/kg	1.00		98.2	80-120			
Arsenic	0.938	0.00500	"	1.00		93.8	80-120			
Barium	1.06	0.0100	"	1.00		106	80-120			
Beryllium	1.05	0.0100	"	1.00		105	80-120			
Cadmium	0.984	0.0100	"	1.00		98.4	80-120			
Chromium	1.04	0.0100	"	1.00		104	80-120			
Cobalt	1.02	0.0100	"	1.00		102	80-120			
Copper	1.04	0.0100	"	1.00		104	80-120			
Lead	1.01	0.00500	"	1.00		101	80-120			
Molybdenum	1.01	0.0100	"	1.00		101	80-120			
Nickel	0.996	0.0100	"	1.00		99.6	80-120			
Selenium	0.922	0.0100	"	1.00		92.2	80-120			
Silver	0.965	0.0100	"	1.00		96.5	80-120			
Thallium	1.03	0.0100	"	1.00		103	80-120			
Vanadium	1.05	0.0100	"	1.00		105	80-120			
Zinc	0.951	0.0100	"	1.00		95.1	80-120			

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00246 - 3050B - SW846 6010B										
LCS Dup (BF00246-BSD1)				Prepared & Analyzed: 06/03/202						
Antimony	0.957	0.0100	mg/kg	1.00		95.7	80-120	2.61	20	
Arsenic	0.948	0.00500	"	1.00		94.8	80-120	1.07	20	
Barium	1.05	0.0100	"	1.00		105	80-120	0.668	20	
Beryllium	1.04	0.0100	"	1.00		104	80-120	0.204	20	
Cadmium	0.998	0.0100	"	1.00		99.8	80-120	1.33	20	
Chromium	1.04	0.0100	"	1.00		104	80-120	0.222	20	
Cobalt	1.03	0.0100	"	1.00		103	80-120	0.847	20	
Copper	1.04	0.0100	"	1.00		104	80-120	0.0798	20	
Lead	1.02	0.00500	"	1.00		102	80-120	1.22	20	
Molybdenum	1.01	0.0100	"	1.00		101	80-120	0.452	20	
Nickel	1.00	0.0100	"	1.00		100	80-120	0.853	20	
Selenium	0.936	0.0100	"	1.00		93.6	80-120	1.48	20	
Silver	0.945	0.0100	"	1.00		94.5	80-120	2.05	20	
Thallium	1.05	0.0100	"	1.00		105	80-120	1.86	20	
Vanadium	1.05	0.0100	"	1.00		105	80-120	0.00190	20	
Zinc	0.963	0.0100	"	1.00		96.3	80-120	1.22	20	

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00117 - 3545 - 8081A										
Blank (BF00117-BLK1)				Prepared: 06/02/202 Analyzed: 06/03/202						
Aldrin	ND	2.00	ug/kg							
alpha-BHC	ND	2.00	"							
beta-BHC	ND	2.00	"							
gamma-Chlordane	ND	2.00	"							
alpha-Chlordane	ND	2.00	"							
4,4´-DDD	ND	4.00	"							
4,4´-DDE	ND	4.00	"							
4,4´-DDT	ND	4.00	"							
delta-BHC	ND	2.00	"							
Dieldrin	ND	4.00	"							
Endosulfan I	ND	2.00	"							
Endosulfan II	ND	4.00	"							
Endosulfan sulfate	ND	4.00	"							
Endrin	ND	4.00	"							
Endrin aldehyde	ND	4.00	"							
Endrin ketone	ND	4.00	"							
gamma-BHC, Lindane	ND	2.00	"							
Heptachlor	ND	2.00	"							
Heptachlor Epoxide	ND	2.00	"							
Methoxychlor	ND	4.00	"							
Toxaphene	ND	170	"							
Chlordane (total)	ND	100	"							
Surrogate: Decachlorobiphenyl	*18.2*		*"*	*16.7*		*109*	*43-169*			
LCS (BF00117-BS1)				Prepared: 06/02/202 Analyzed: 06/03/202						
Aldrin	14.4	2.00	ug/kg	16.7		86.5	42-122			
4,4´-DDT	17.0	4.00	"	16.7		102	25-160			
Dieldrin	16.0	4.00	"	16.7		96.0	36-146			
Endrin	15.5	4.00	"	16.7		93.2	30-147			
gamma-BHC, Lindane	16.7	2.00	"	16.7		100	32-127			
Heptachlor	15.8	2.00	"	16.7		94.8	34-111			
Surrogate: Decachlorobiphenyl	*19.4*		*"*	*16.7*		*117*	*43-169*			

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00117 - 3545 - 8081A										
LCS Dup (BF00117-BSD1)				Prepared: 06/02/202 Analyzed: 06/03/202						
Aldrin	15.6	2.00	ug/kg	16.7		93.4	42-122	7.62	30	
4,4´-DDT	16.1	4.00	"	16.7		96.4	25-160	5.53	30	
Dieldrin	16.8	4.00	"	16.7		101	36-146	4.62	30	
Endrin	16.4	4.00	"	16.7		98.6	30-147	5.69	30	
gamma-BHC, Lindane	18.1	2.00	"	16.7		109	32-127	7.92	30	
Heptachlor	17.5	2.00	"	16.7		105	34-111	10.4	30	
Surrogate: Decachlorobiphenyl	*19.0*		*"*	*16.7*		*114*	*43-169*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amolk Brar, Lab Manager

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006013
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/09/2020 16:38

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the practical quantitation limit (PQL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Date of Report: 06/11/2020

Molky Brar

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Client Project:	2006013
BCL Project:	Solid
BCL Work Order:	2015962
Invoice ID:	B382574

Enclosed are the results of analyses for samples received by the laboratory on 6/3/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

Table of Contents

Chain of Custody and Cooler Receipt Form for 2015962 Page 1 of 3

SUBCONTRACT ORDER

American Scientific Laboratories

20-15962 **2006013**

SENDING LABORATORY:

American Scientific Laboratories
2520 N San Fernando Road
Los Angeles, CA 90065
Phone: (323) 223-9700
Fax: (323) 223-9500
Project Manager: Amolk Brar

RECEIVING LABORATORY:

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
Phone :(661) 327-4911
Fax:

Analysis	Due	Expires	Laboratory ID	Comments
-1 **Sample ID: 2006013-01**	**Solid**	**Sampled:05/30/2020 11:40**		Standard TAT
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		Total- 10 samples
Containers Supplied: 4 oz- Glass Jar				
-2 **Sample ID: 2006013-02**	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied: 4 oz- Glass Jar				
-3 **Sample ID: 2006013-03**	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied: 4 oz- Glass Jar				
-4 **Sample ID: 2006013-04**	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied: 4 oz. Glass Jar				
-5 **Sample ID: 2006013-05**	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied: 4 oz. Glass Jar				
-6 **Sample ID: 2006013-06**	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied: 4 oz. Glass Jar				

CHK BY MM DISTRIBUTION SUB OUT ☐

Released By	Date	Received By	Date
		6-3-20 950	
Released By	Date	Received By	Date

Page 1 of 2

Chain of Custody and Cooler Receipt Form for 2015962 Page 2 of 3

SUBCONTRACT ORDER

American Scientific Laboratories

20-15962 **2006013**

Analysis	Due	Expires	Laboratory ID	Comments
-7				
Sample ID: 2006013-07	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied:				
4 oz. Glass Jar				
-8				
Sample ID: 2006013-08	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied:				
4 oz. Glass Jar				
-9				
Sample ID: 2006013-09	**Solid**	**Sampled:05/30/2020 11:40**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 11:40		
Containers Supplied:				
4 oz. Glass Jar				
-10				
Sample ID: 2006013-10	**Solid**	**Sampled:05/30/2020 12:50**		
8151A Herbicides	06/09/2020 16:00	06/13/2020 12:50		
Containers Supplied:				
4 oz Glass Jar				

Released By	Date	Received By	Date
		10320 950	
Released By	Date	Received By	Date

Page 2 of 2

Chain of Custody and Cooler Receipt Form for 2015962 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 2015962

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☐ Other ☒ (Specify) GLS	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ W / S

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .97 Container: glass Thermometer ID: 274 Date/Time 6-3-2020 1125

Temperature: (A) 4.2 °C / (C) 4.2 °C Analyst Init TKJ

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
~~8oz / 16oz / 32oz~~ JAR 402	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: CMZ Date/Time: 6/3/20 1125

A = Actual / C = Corrected

Rev 21 05/23/2016

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American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2015962-01	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-01	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-02	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-02	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-03	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-03	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-04	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-04	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-05	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-05	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-06	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-06	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-07	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-07	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2015962-08	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-08	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-09	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-09	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
2015962-10	**COC Number:**	---	**Receive Date:**	06/03/2020 09:50
	Project Number:	---	**Sampling Date:**	05/30/2020 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	2006013-10	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-01 | **Client Sample Name:** 2006013-01, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	31.0	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 15:19	OLH	GC-8	1.017	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-02 | **Client Sample Name:** 2006013-02, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.039	0.0058	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.077	0.013	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.097	0.013	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0039	0.0011	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.039	0.0072	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.014	0.0039	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0058	0.0021	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0058	0.0014	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	28.5	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 15:40	OLH	GC-8	1.935	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-03 | **Client Sample Name:** 2006013-03, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	17.8	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 16:01	OLH	GC-8	1.003	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-04 | **Client Sample Name:** 2006013-04, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	12.0	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 16:22	OLH	GC-8	1.010	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-05 | **Client Sample Name:** 2006013-05, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	10.2	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 16:42	OLH	GC-8	1.014	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-06 | **Client Sample Name:** 2006013-06, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	14.3	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 19:09	OLH	GC-8	0.990	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-07 | **Client Sample Name:** 2006013-07, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	15.5	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 19:29	OLH	GC-8	1.003	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-08 | **Client Sample Name:** 2006013-08, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	13.7	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 19:50	OLH	GC-8	0.987	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-09 | **Client Sample Name:** 2006013-09, 5/30/2020 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	18.2	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 20:11	OLH	GC-8	0.987	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

BCL Sample ID: 2015962-10 | **Client Sample Name:** 2006013-10, 5/30/2020 12:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	mg/kg	0.020	0.0030	EPA-8151A	ND		1
2,4-DB	ND	mg/kg	0.040	0.0067	EPA-8151A	ND		1
Dalapon	ND	mg/kg	0.050	0.0068	EPA-8151A	ND		1
Dicamba	ND	mg/kg	0.0020	0.00057	EPA-8151A	ND		1
Dichloroprop	ND	mg/kg	0.020	0.0037	EPA-8151A	ND		1
Dinoseb	ND	mg/kg	0.0070	0.0020	EPA-8151A	ND		1
2,4,5-T	ND	mg/kg	0.0030	0.0011	EPA-8151A	ND		1
2,4,5-TP (Silvex)	ND	mg/kg	0.0030	0.00073	EPA-8151A	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	19.5	%	40 - 120 (LCL - UCL)		EPA-8151A		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8151A	06/04/20 10:00	06/05/20 20:32	OLH	GC-8	1.017	B079518	EPA 3550B

American Scientific Laboratories
2520 North San Fernando
Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B079518						
2,4-D	B079518-BLK1	ND	mg/kg	0.020	0.0030	
2,4-DB	B079518-BLK1	ND	mg/kg	0.040	0.0067	
Dalapon	B079518-BLK1	ND	mg/kg	0.050	0.0068	
Dicamba	B079518-BLK1	ND	mg/kg	0.0020	0.00057	
Dichloroprop	B079518-BLK1	ND	mg/kg	0.020	0.0037	
Dinoseb	B079518-BLK1	ND	mg/kg	0.0070	0.0020	
2,4,5-T	B079518-BLK1	ND	mg/kg	0.0030	0.0011	
2,4,5-TP (Silvex)	B079518-BLK1	ND	mg/kg	0.0030	0.00073	
2,4-Dichlorophenylacetic acid (Surrogate)	**B079518-BLK1**	**78.5**	%	**40 - 120 (LCL - UCL)**		

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Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B079518										
2,4-D	B079518-BS1	LCS	0.069900	0.080268	mg/kg	87.1		50 - 120		
2,4-DB	B079518-BS1	LCS	0.17793	0.18060	mg/kg	98.5		50 - 120		
Dicamba	B079518-BS1	LCS	0.017391	0.020067	mg/kg	86.7		50 - 120		
Dichloroprop	B079518-BS1	LCS	0.068227	0.080268	mg/kg	85.0		50 - 120		
Dinoseb	B079518-BS1	LCS	0.033445	0.040134	mg/kg	83.3		50 - 120		
2,4,5-T	B079518-BS1	LCS	0.019398	0.020067	mg/kg	96.7		30 - 120		
2,4,5-TP (Silvex)	B079518-BS1	LCS	0.017391	0.020067	mg/kg	86.7		50 - 120		
2,4-Dichlorophenylacetic acid (Surrogate)	B079518-BS1	LCS	0.10569	0.13378	mg/kg	79.0		40 - 120		

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Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Chlorinated Herbicides (EPA Method 8151A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B079518	Used client sample: N										
2,4-D	MS	2013596-71	ND	0.073443	0.078689	mg/kg		93.3		40 - 120	
	MSD	2013596-71	ND	0.076949	0.081356	mg/kg	4.7	94.6	30	40 - 120	
2,4-DB	MS	2013596-71	ND	0.16852	0.17705	mg/kg		95.2		50 - 120	
	MSD	2013596-71	ND	0.14576	0.18305	mg/kg	14.5	79.6	30	50 - 120	
Dicamba	MS	2013596-71	ND	0.018361	0.019672	mg/kg		93.3		50 - 120	
	MSD	2013596-71	ND	0.020000	0.020339	mg/kg	8.5	98.3	30	50 - 120	
Dichloroprop	MS	2013596-71	ND	0.071148	0.078689	mg/kg		90.4		40 - 120	
	MSD	2013596-71	ND	0.075932	0.081356	mg/kg	6.5	93.3	30	40 - 120	
Dinoseb	MS	2013596-71	ND	0.034754	0.039344	mg/kg		88.3		40 - 130	
	MSD	2013596-71	ND	0.036949	0.040678	mg/kg	6.1	90.8	30	40 - 130	
2,4,5-T	MS	2013596-71	ND	0.019672	0.019672	mg/kg		100		30 - 120	
	MSD	2013596-71	ND	0.021017	0.020339	mg/kg	6.6	103	30	30 - 120	
2,4,5-TP (Silvex)	MS	2013596-71	ND	0.018361	0.019672	mg/kg		93.3		40 - 120	
	MSD	2013596-71	ND	0.019661	0.020339	mg/kg	6.8	96.7	30	40 - 120	
2,4-Dichlorophenylacetic acid (Surrogate	MS	2013596-71	ND	0.10918	0.13115	mg/kg		83.2		40 - 120	
	MSD	2013596-71	ND	0.11017	0.13559	mg/kg	0.9	81.3		40 - 120	

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Los Angeles, CA 90065

Reported: 06/11/2020 10:35
Project: Solid
Project Number: 2006013
Project Manager: Molky Brar

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A20	Surrogate is low due to matrix interference. Interference verified through second extraction/analysis.

American Scientific Laboratories, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

30 June 2020

David Johannes

Certified Enviro. Consultants, Inc.

1206 Harris Ave

Camarillo, CA 93010

Work Order #: 2006149

Project Name: 99PATT2

Project ID: 20-2160

Site Address:

Enclosed are the results of analyses for samples received by the laboratory on June 23, 2020. If you have any questions concerning this report, please feel free to contact us.

Rojert G. Araghi

Laboratory Director

CEC

Certified Environmental Consultants, Inc.
1206 Harris Avenue
Camarillo, CA 93010
Telephone: 805-388-8970
E-Mail: cecdj@aol.com

Chain of Custody

ASL JOB # 2006149

Project Number: 20-2160 | Project Name: 99PATT2
Project Manager: DAVID JOHANNES
Client Name: TCG

Turn-around time:
- __ 24-Hour RUSH
- __ 48-Hour RUSH
- X Normal TAT

Lab. I.D. # (Lab. use only)	Sample Description (As it should appear on analytical report)	Date Sampled	Time Sampled	Sample Matrix	Containers (# and type)	ORGANOCHLOR. PESTS. (8081A)	TITLE 22 METALS (6010B)	HOLD	Remarks/ Special Instructions
2006149-01	B-1	6/19/20	13:00	SOIL	(1) TUBE	X	X		
	B-2							X	
2006149-02	B-3					X	X		
	B-4							X	
2006149-03	B-5		13:55			X	X		

Relinquished by: (Sampler's Signature)	Date	Time	Relinquished by:	Date	Time
David Johannes	6/23/20	10:55			
Received by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Alex	6.23.20	1055			
			Relinquished by:	Date	Time
			Received by:	Date	Time

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the above-specified analyses.

Sample Delivery Conditions:
- Samples chilled? ✓ Yes __ No
- Custody seals? __ Yes ✓ No
- All sample containers intact? ✓ Yes __ No
- By: __ Courier __ UPS/Fed Ex ✓ Hand carried

Sample Disposal:
- __ Client will pick up
- __ Return to client
- X Lab disposal

Laboratory Notes:

Job# 2006149

ASL Sample Receipt Form

Client: Certified Envirn. Consultants, Inc.

Date: 6.23.2020

Sample Information:

Temperature: 5.2 °C ☐ Blank ☒ Sample

Custody Seal: ☐ Yes ☒ No ☐ Not Available

Received Within Holding Time: ☒ Yes ☐ No

Container:

Proper Containers and Sufficient Volume: ☐ Yes ☐ No

Soil: __☐ 4oz __☐ 8oz __☒ Sleeve __☐ VOA

Water: __☐500AG __☐1AG __☐125PB __☐250PB __☐500PB __☐VOA __☐Other _____

Air: __☐ Tedlar®

Sample Containers Intact: ☒ Yes ☐ No

Trip Blank ☐ Yes ☒ No

Chain-of-Custody (COC):

Received: ☒ Yes ☐ No

Samplers Name: ☒ Yes ☐ No

Container Labels match COC: ☒ Yes ☐ No

COC documents received complete: ☒ Yes ☐ No

Proper Preservation Noted: ☒ Yes ☐ No

Completed By: Janet Chin

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

ANALYTICAL SUMMARY REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
8-1	2006149-01	Solid	06/19/2020 13:00	06/23/2020 10:55
8-3	2006149-02	Solid	06/19/2020 13:00	06/23/2020 10:55
8-5	2006149-03	Solid	06/19/2020 13:55	06/23/2020 10:55

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Analytical Results

Client Sample ID: 8-1

Laboratory Sample ID: 2006149-01 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00789		Prepared: 06/24/2020 11:36		
Mercury	ND		0.0500	mg/kg	1	7471A	06/25/2020 10:40	LVE	7471A
Total ICP Metals				Batch ID:	BF00791		Prepared: 06/24/2020 10:42		
Antimony	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Arsenic	**4.08**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Barium	**96.7**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cadmium	**1.06**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Chromium	**22.0**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cobalt	**6.61**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Copper	**23.8**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Lead	**6.68**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Nickel	**26.3**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Vanadium	**25.6**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Zinc	**32.4**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00513		Prepared: 06/23/2020 14:21		
Aldrin	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A

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Amolk Brar, Lab Manager

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Environmental Testing Services
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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Analytical Results

Client Sample ID: 8-1

Laboratory Sample ID: 2006149-01 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00513		Prepared: 06/23/2020 14:21		
Methoxychlor	ND		4.00	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/23/2020 14:31	AY	8081A
Surrogate: Decachlorobiphenyl			*102 %*	*43-169*		3545	06/23/2020 14:31	AY	*8081A*

Analytical Results

Client Sample ID: 8-3

Laboratory Sample ID: 2006149-02 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00789		Prepared: 06/24/2020 11:36		
Mercury	ND		0.0500	mg/kg	1	7471A	06/25/2020 10:40	LVE	7471A
Total ICP Metals				Batch ID:	BF00791		Prepared: 06/24/2020 10:42		
Antimony	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Arsenic	**3.15**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Barium	**97.9**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cadmium	**1.10**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Chromium	**23.7**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cobalt	**7.06**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Copper	**13.0**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Lead	**4.73**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Nickel	**28.9**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Vanadium	**27.6**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Zinc	**29.1**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00513		Prepared: 06/23/2020 14:21		
Aldrin	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A

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Amolk Brar, Lab Manager

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Analytical Results

Client Sample ID: 8-3

Laboratory Sample ID: 2006149-02 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides				Batch ID:	BF00513		Prepared: 06/23/2020 14:21		
delta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/23/2020 14:44	AY	8081A
Surrogate: Decachlorobiphenyl			*88.8 %*		*43-169*	3545	06/23/2020 14:44	AY	*8081A*

Analytical Results

Client Sample ID: 8-5

Laboratory Sample ID: 2006149-03 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID:	BF00789		Prepared: 06/24/2020 11:36		
Mercury	ND		0.0500	mg/kg	1	7471A	06/25/2020 10:40	LVE	7471A
Total ICP Metals				Batch ID:	BF00791		Prepared: 06/24/2020 10:42		
Antimony	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Arsenic	**4.79**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Barium	**88.7**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cadmium	**1.16**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Chromium	**22.7**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Cobalt	**6.63**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Copper	**37.0**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Lead	**9.36**		0.250	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Nickel	**27.3**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B

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Environmental Testing Services
2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Analytical Results

Client Sample ID: 8-5

Laboratory Sample ID: 2006149-03 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals				Batch ID:	BF00791		Prepared: 06/24/2020 10:42		
Vanadium	**26.8**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Zinc	**42.3**		0.500	mg/kg	1	3050B	06/24/2020 19:09	LVE	SW846 6010B
Organochlorine Pesticides				Batch ID:	BF00513		Prepared: 06/23/2020 14:21		
Aldrin	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
alpha-Chlordane	**5.24**		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
4,4´-DDD	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
4,4´-DDE	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
4,4´-DDT	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	06/23/2020 14:57	AY	8081A
Surrogate: Decachlorobiphenyl			*83.8 %*		*43-169*	3545	06/23/2020 14:57	AY	*8081A*

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Total Mercury (CVAA) - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00789 - 7471A - 7471A										
Blank (BF00789-BLK1)				Prepared: 06/24/202 Analyzed: 06/25/202						
Mercury	ND	0.0500	mg/kg							
LCS (BF00789-BS1)				Prepared: 06/24/202 Analyzed: 06/25/202						
Mercury	0.0938	0.0500	mg/kg	0.100		93.8	80-120			
LCS Dup (BF00789-BSD1)				Prepared: 06/24/202 Analyzed: 06/25/202						
Mercury	0.0954	0.0500	mg/kg	0.100		95.4	80-120	1.69	20	

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00791 - 3050B - SW846 6010B										
Blank (BF00791-BLK1)				Prepared & Analyzed: 06/24/202						
Antimony	ND	0.500	mg/kg							
Arsenic	ND	0.250	"							
Barium	ND	0.500	"							
Beryllium	ND	0.500	"							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Cobalt	ND	0.500	"							
Copper	ND	0.500	"							
Lead	ND	0.250	"							
Molybdenum	ND	0.500	"							
Nickel	ND	0.500	"							
Selenium	ND	0.500	"							
Silver	ND	0.500	"							
Thallium	ND	0.500	"							
Vanadium	ND	0.500	"							
Zinc	ND	0.500	"							
LCS (BF00791-BS1)				Prepared & Analyzed: 06/24/202						
Antimony	0.942	0.0100	mg/kg	1.00		94.2	80-120			
Arsenic	0.980	0.00500	"	1.00		98.0	80-120			
Barium	0.965	0.0100	"	1.00		96.5	80-120			
Beryllium	1.03	0.0100	"	1.00		103	80-120			
Cadmium	0.994	0.0100	"	1.00		99.4	80-120			
Chromium	0.975	0.0100	"	1.00		97.5	80-120			
Cobalt	0.993	0.0100	"	1.00		99.3	80-120			
Copper	1.01	0.0100	"	1.00		101	80-120			
Lead	1.00	0.00500	"	1.00		100	80-120			
Molybdenum	0.952	0.0100	"	1.00		95.2	80-120			
Nickel	0.983	0.0100	"	1.00		98.3	80-120			
Selenium	0.966	0.0100	"	1.00		96.6	80-120			
Silver	0.983	0.0100	"	1.00		98.3	80-120			
Thallium	1.01	0.0100	"	1.00		101	80-120			
Vanadium	0.970	0.0100	"	1.00		97.0	80-120			
Zinc	0.947	0.0100	"	1.00		94.7	80-120			

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00791 - 3050B - SW846 6010B										
LCS Dup (BF00791-BSD1)				Prepared & Analyzed: 06/24/202						
Antimony	0.943	0.0100	mg/kg	1.00		94.3	80-120	0.0591	20	
Arsenic	0.962	0.00500	"	1.00		96.2	80-120	1.79	20	
Barium	0.944	0.0100	"	1.00		94.4	80-120	2.19	20	
Beryllium	1.02	0.0100	"	1.00		102	80-120	1.46	20	
Cadmium	0.977	0.0100	"	1.00		97.7	80-120	1.69	20	
Chromium	0.959	0.0100	"	1.00		95.9	80-120	1.67	20	
Cobalt	0.973	0.0100	"	1.00		97.3	80-120	1.98	20	
Copper	0.990	0.0100	"	1.00		99.0	80-120	1.52	20	
Lead	0.984	0.00500	"	1.00		98.4	80-120	1.81	20	
Molybdenum	0.937	0.0100	"	1.00		93.7	80-120	1.65	20	
Nickel	0.964	0.0100	"	1.00		96.4	80-120	1.90	20	
Selenium	0.957	0.0100	"	1.00		95.7	80-120	0.916	20	
Silver	1.01	0.0100	"	1.00		101	80-120	2.28	20	
Thallium	0.990	0.0100	"	1.00		99.0	80-120	2.43	20	
Vanadium	0.955	0.0100	"	1.00		95.5	80-120	1.58	20	
Zinc	0.932	0.0100	"	1.00		93.2	80-120	1.56	20	

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00513 - 3545 - 8081A										
Blank (BF00513-BLK1)				Prepared & Analyzed: 06/23/202						
Aldrin	ND	2.00	ug/kg							
alpha-BHC	ND	2.00	"							
beta-BHC	ND	2.00	"							
gamma-Chlordane	ND	2.00	"							
alpha-Chlordane	ND	2.00	"							
4,4´-DDD	ND	4.00	"							
4,4´-DDE	ND	4.00	"							
4,4´-DDT	ND	4.00	"							
delta-BHC	ND	2.00	"							
Dieldrin	ND	4.00	"							
Endosulfan I	ND	2.00	"							
Endosulfan II	ND	4.00	"							
Endosulfan sulfate	ND	4.00	"							
Endrin	ND	4.00	"							
Endrin aldehyde	ND	4.00	"							
Endrin ketone	ND	4.00	"							
gamma-BHC, Lindane	ND	2.00	"							
Heptachlor	ND	2.00	"							
Heptachlor Epoxide	ND	2.00	"							
Methoxychlor	ND	4.00	"							
Toxaphene	ND	170	"							
Chlordane (total)	ND	100	"							
Surrogate: Decachlorobiphenyl	*18.1*		*"*	*16.7*		*109*	*43-169*			
LCS (BF00513-BS1)				Prepared & Analyzed: 06/23/202						
Aldrin	15.7	2.00	ug/kg	16.7		94.4	42-122			
4,4´-DDT	16.7	4.00	"	16.7		99.9	25-160			
Dieldrin	15.8	4.00	"	16.7		95.0	36-146			
Endrin	15.1	4.00	"	16.7		90.7	30-147			
gamma-BHC, Lindane	16.8	2.00	"	16.7		101	32-127			
Heptachlor	15.2	2.00	"	16.7		90.9	34-111			
Surrogate: Decachlorobiphenyl	*18.2*		*"*	*16.7*		*109*	*43-169*			

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BF00513 - 3545 - 8081A										
LCS Dup (BF00513-BSD1)				Prepared & Analyzed: 06/23/202						
Aldrin	17.2	2.00	ug/kg	16.7		103	42-122	8.81	30	
4,4´-DDT	15.1	4.00	"	16.7		90.6	25-160	9.78	30	
Dieldrin	16.5	4.00	"	16.7		98.7	36-146	3.87	30	
Endrin	15.3	4.00	"	16.7		91.6	30-147	0.983	30	
gamma-BHC, Lindane	20.9	2.00	"	16.7		125	32-127	22.0	30	
Heptachlor	16.9	2.00	"	16.7		101	34-111	10.7	30	
Surrogate: Decachlorobiphenyl	*18.5*		*"*	*16.7*		*111*	*43-169*			

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Certified Enviro. Consultants, Inc.	Project: 99PATT2	Work Order No: 2006149
1206 Harris Ave	Project Number: 20-2160	**Reported:**
Camarillo CA, 93010	Project Manager: David Johannes	06/30/2020 14:28

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the practical quantitation limit (PQL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference