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#### Valley Oak Partners, LLC

734 The Alameda San Jose, CA 95126 Tel: 408.282.9700 www.valleyoakpartners.com



December 3, 2013

Mr. Mark Detterman, PG, CEG Senior Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Re: Soil Cleanup Documentation Report

23830 & 23836 Saklan Road and 24137 Eden Avenue

Hayward, California

Dear Mr. Detterman:

I declare under penalty of perjury that to the best of my knowledge the information and recommendations contained in the attached report are true and correct.

If you have any questions or need additional information, please call me at (408) 282-0991.

Sincerely,

Steve Fisher

Partner, Valley Oak Partners, LLC

Attachment: November 26, 2013 Tetra Tech, Inc. Soil Cleanup Documentation

Report, 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward,

California



#### November 26, 2013

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Mr. Steve Fisher Valley Oak Partners, LLC 734 The Alameda San Jose, California 95126

Re: Soil Cleanup Documentation Report
23830 & 23836 Saklan Road and 24137 Eden Ave
Hayward, California
Tetra Tech Inc. Project 117-7059010.01

Dear Mr. Fisher

This report documents the sampling, excavation and off-site disposal of pesticide- and PCB-impacted soil from the 23830 & 23836 Saklan Road and 24137 Eden Avenue site in Hayward, California (the Property). Field activities were performed in accordance with the scope of work presented in the August 14, 2013 proposal titled *Proposal for Soil Cleanup – Excavation and Off-Site Disposal, 23836 Saklan Road Property in Hayward, California.* Work was also performed in accordance with follow-up emails with you, and discussions with the Alameda County Environmental Health Department case manager for the Property, Mr. Mark Detterman, PG, CEG.

The pesticide- and PCB-impacted soil was removed from the Property in preparation for residential redevelopment. Soil was cleaned up to meet State of California and U. S. EPA human health screening levels for residential land use, as follows:

- Environmental Screening Level (ESL) values published by the State of California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, Table A-1, Shallow Soil, Direct Exposure Value, May 2013.
- California Human Health Screening Level (CHHSL) values published by the State of California Department of Toxic Substances Control (DTSC) and the Office of Environmental Health Hazard Assessment (OEHHA), Table 1, Residential Scenario, September 2010.
- Regional Screening Level (RSL) values published by the U.S. Environmental Protection Agency (EPA), Region IX, Summary Table, Residential Soil, May 2013.

These cleanup values are conservative values protective of human health under residential land use, and are commonly used to guide soil cleanup activities.

The Property location is shown on Figure 1 and the Property plot plan is shown on Figure 2. The Property currently supports three single-family homes with several outbuildings. The Property formerly supported plant nursery businesses, with greenhouses formerly present on the two Saklan Road parcels.

Property conditions and historical Property use, including prior soil sample results are described in the July 2, 2013 Tetra Tech report titled *Phase I and Phase II Environmental Site Assessment, Three Adjacent Residential Parcels, 23830 and 23836 Saklan Road, and 24137 Eden Avenue, Hayward, California* (ESA report). Residual concentrations of pesticide and PCB compounds were shown to be present in surface soil within portions of the Property. The prior (1990 – 1991) sample results are shown on Figure 3.

In summary, for this soil cleanup investigation, 329.41 tons of soil were excavated and disposed off-site. A total of 49.44 tons of soil (2 truck loads) were disposed as hazardous waste (due to total DDT, DDD and DDE concentrations above 1 part per million [ppm]) at the Clean Harbors Buttonwillow Class I landfill located near Buttonwillow (west of Bakersfield), California, and a total of 279.97 tons of soil (13 truckloads) were disposed as non-hazardous waste at the Recology Hay Road Landfill located east of Vacaville, California. Pre- and post-excavation confirmation soil sampling was performed; final soil sample results were below State and Federal screening level values for residential land use. Work perimeter air monitoring was performed during the soil excavation activities, and the results were non-detect for pesticides and PCBs.

The main target pesticide compounds that exceeded the cleanup criteria were beta-BHC and chlordane. Residual concentrations of DDT, and DDT breakdown products DDD and DDE, were also present in soil, in concentrations mostly below cleanup criteria but often above the State of California "Total Threshold Limit Concentration" (TTLC) value of 1 part per million (ppm) as defined in California Title 22 regulations. It was the presence of DDT / DDD / DDE in a total concentration above 1 ppm, but in most cases below corresponding residential cleanup levels, that triggered the requirement to dispose of some of the soil as hazardous waste.

A summary of the field activities, analytical results and waste disposal documentation is presented in the following sections.

# SOIL CHARACTERIZATION

Soil impacts were assessed by performing several rounds of soil sampling across the Property in 2013. Results of initial sampling conducted February 27, 2013 and March 27, 2013 were presented in the July 2, 2013 Phase I and Phase II Environmental Site Assessment report

(ESA). The sample results are included in Tables 1 through 3 and the initial sample locations are shown on Figure 4.

The delineation of areas for soil cleanup was initially defined in the ESA. Additional soil sampling was conducted in September and October 2013 to confirm clean conditions around the perimeter of excavation areas. In some instances, several step-out soil samples were collected to delineate clean soil conditions. Excavation confirmation soil samples were collected from the bottom and sidewalls of the excavations in order to confirm that all of the impacted soil areas had been excavated to the clean-up level criteria.

The DTSC schools agricultural land sampling guidance was initially used to determine soil sample locations for this clean-up effort: *Interim Guidance for Sampling Agricultural Properties* (August 7, 2008, Third Revision). The DTSC document recommended that four soil samples should be collected on the Property, based on its size. However, in consideration of the earlier sampling results and the proposed future land use (townhomes), four samples were not considered to be enough to characterize exposure for individual townhomes. As a result, a tight grid pattern was created that provided good coverage across each parcel. The grid pattern took into consideration areas that were former locations of greenhouses and included potential hot spot areas identified by earlier sampling (see the ESA report).

Discrete soil samples were considered a requirement because of the planned residential land use of the Property as townhomes. Composite soil samples were not collected because each parcel sampled is not considered to be one population in terms of potential exposure, each parcel will be divided into numerous small areas for the townhomes. For that reason it was important to use the discrete soil samples to identify "hot spots" that required cleanup.

The initial soil sample results for 23830 Saklan Road, 24137 Eden Avenue, and 23836 Saklan Road are displayed on Figures 5, 6, and 7, respectively. The results of the soil sampling are summarized below:

- 23830 Saklan Road this parcel did not contain pesticides above agency screening level criteria (Table 1 and Figure 5).
- 24137 Eden Avenue Chlordane was detected slightly above agency screening level criteria at one location, 37-GS15-0.5' (Table 3 and Figure 6).
- 23836 Saklan Road PCB and pesticide residues were detected above agency screening criteria for residential land use. Specifically, the pesticide beta-BHC was present in surface soil in concentrations exceeding screening criteria. The pesticide DDT, along with DDD and DDE, were also present in surface soil, but in concentrations below agency screening level criteria for residential land use. PCBs were detected in soil at three sampling locations above agency screening level criteria (Table 2 and Figure 7).

At the request of the Alameda County Environmental Health Department (ACEHD), additional soil sampling was completed on the 23830 Saklan Road parcel because DDT and DDE sample results from one location ("30-GS5") were detected close to, but did not exceed, the residential land use screening level criteria. On September 30, 2013, three near-surface soil samples (0.5 feet in depth) were collected approximately 10-feet out from sample location 30-GS5 in a triangular pattern, equally distant from one another (30-GS-17, 30-GS-18, and 30-GS19). Detected concentrations of DDE and DDT were less than agency screening level criteria, and less than the initially detected concentrations at 30-GS5 (Figure 5). As a result, no soil cleanup work was performed on the 23830 Saklan Road parcel.

Additional soil sampling was also performed at the request of the ACEHD on the 24137 Eden Avenue parcel in follow-up to the single detection of chlordane at location 37-GS15, slightly above the residential screening level (Figure 6). Four additional soil samples were collected: one at 1.5 feet in depth at 37-GS15, and three near-surface soil samples at 0.5 feet in depth, roughly 10 feet away, in a triangular shape around sample location 37-GS15 (37-GS16, 37-GS-17, and 37-GS-18). Chlordane was not detected above the agency screening level at the 1.5-foot depth at sample location 37-GS15. Chlordane was detected above the agency screening level at the three additional near-surface soil sample locations. Four additional soil samples were then collected to further assess lateral extent of chlordane on October 10, 2013 (37-GS19, 37-GS20, 37-GS21, and 37-GS22). Chlordane was detected above the agency screening level criteria at one location (37-GS19). The results of the additional soil sampling are included in Table 3 and Figure 6. The analytical data sheets and chain of custody forms are presented in Attachment B.

## SOIL EXCAVATION AND STOCKPILING

On August 26 and 27, 2013, Tetra Tech provided oversight for the excavation of PCB- and pesticide-impacted soil in selected areas of the 23836 Saklan Road parcel as shown on Figures 8 and 9. Additional soil was excavated from the 23836 Saklan Road parcel on October 21, 2013, and pesticide-impacted soil was excavated from the 24137 Eden Avenue parcel on October 21 and 22, 2013, as shown on Figure 10.

Prior to beginning both the August and the October soil excavation work, a public notice was prepared and provided to homes adjacent and close to the southern and northern Property boundaries to inform neighbors of the upcoming heavy equipment work. The notices were provided to the Homeowners Association (governing the residences adjacent to the Property) by Valley Oak Partners, LLC.

Soil was excavated using an excavator and backhoe. Water was applied prior to and during excavation activities to suppress dust. Photographs of the soil excavation and stockpiling activities, selected confirmation soil sample locations, perimeter air monitoring, and truck loading / off-hauling activities are presented in Attachment A.

The pesticide-impacted soil was temporarily stockpiled on site in three separate piles. One pile was identified as the "hazardous" pile because it was generated from the excavation of surface soil identified as containing total DDT / DDD / DDE concentrations above 1 ppm. A second soil pile was created and identified as the "non-hazardous" pile because it was generated from soil excavated from areas that contained non-hazardous concentrations of pesticides. A third pile was created from soil excavated from areas that did not have enough soil sample data to be confident of the resulting pesticide concentrations. All three piles were covered by plastic sheeting to protect against wind erosion.

Each soil pile was profiled separately for disposal purposes. Separate 4-point composite soil samples were collected from the "hazardous" pile and the "non-hazardous" pile. Two 4-point composite soil samples were collected from the larger third pile: one was collected from the eastern half of the pile and one was collected from the western half. For sample identification purposes, the "hazardous" soil pile was identified as Pile 1, the "non-hazardous" soil pile was identified as Pile 2, and the third pile was identified as Pile 3. The four composite soil profile samples were collected and transported under chain of custody protocol and hand delivered to CLS Laboratories in Rancho Cordova, California for total pesticide analysis using EPA Method 8081A, PCB analysis using EPA method 8082A, CAM 17 metals analysis using EPA Method 6000 series, total petroleum hydrocarbon as diesel and as motor oil (TPH-d,mo) using EPA Method 8015M, and total petroleum hydrocarbon as gasoline (TPH-g) and benzene, toluene, ethyl benzene, and xylene using EPA Method 8260B. Results of the soil profile sample analyses are presented in Table 4. Copies of the laboratory analytical data sheets and chain of custody forms are presented in Attachment C.

## Pile 1 - Hazardous Soil Pile

The total DDT / DDD / DDE concentration from the composite soil sample collected from the "hazardous" soil pile did not exceed the 1 ppm TTLC criteria for hazardous waste. However, because the discrete soil samples collected during the Phase II site investigation were above the 1 ppm criteria, the soil required disposal as a hazardous waste.

The soil was accepted by the Buttonwillow Class I landfill for disposal.

# Pile 2 – Non-Hazardous Soil Stockpile

Pesticide concentrations in the composite sample collected from the non-hazardous soil pile were below corresponding TTLC criteria for designation as a hazardous waste. At the request of the landfill, the profile sample was reanalyzed for chromium using the Title 22 Solubility Threshold Leaching Criteria (STLC) waste extraction test. Chromium was detected in the sample at 0.87 milligrams per liter (mg/L) which is below the chromium STLC value of 5 mg/L; the soil could therefore be handled as non-hazardous.

The soil was accepted for disposal as non-hazardous waste at the Recology Hay Road Landfill.

# Pile 3 - Third Soil Stockpile

Pesticide concentrations in the two composite samples collected from the third soil pile were below corresponding TTLC criteria for designation as a hazardous waste. At the request of the landfill, the profile samples were reanalyzed for chromium using the STLC waste extraction test. Chromium was detected at 0.65 mg/L and 2.5 mg/L in samples Pile 3-1 and Pile 3-2, respectively, which are below the chromium STLC value of 5 mg/L; the soil could therefore be handled as non-hazardous.

The soil was accepted for disposal as non-hazardous waste at the Recology Hay Road Landfill.

## CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS

A total of 22 post-excavation confirmation soil samples were collected from the side-walls and bottom of each of the excavated areas on August 28, 2013. Additional step-out confirmation sampling was conducted on September 10, 2013 and September 30, 2013 to further delineate soil with pesticide concentrations above agency screening criteria. The confirmation soil samples were collected and transported under chain of custody protocol and hand delivered to CLS Laboratories in Rancho Cordova, California, for pesticide analysis using EPA Method 8081A, and for PCB analysis using EPA Method 8082. Confirmation soil sample locations are shown on Figures 8 and 9. Sample results are provided in Table 5, and copies of laboratory analytical data sheets and chain of custody forms are provided in Attachment C. With one exception, all final confirmation soil sample results met the cleanup criteria. The one exception was soil sample 37-GS19 that contained chlordane above the cleanup level criteria. Results from nearby sample location 37-GS14 were used to delineate clean soil conditions in that area.

## **OFF-SITE DISPOSAL**

Tetra Tech arranged for the loading and off-site transport of the stockpiled soil from the Property. On October 22, 2013, a total of 15 truckloads of soil were transported off-site for disposal. Water spray was applied during the truck loading activities to suppress potential dust. The soil was moist and no visible dust emissions were observed during the soil loading. Air monitoring was conducted during the loading of the trucks as described in the Air Monitoring section below.

Two truckloads of soil (totaling 49.44 tons) were transported as hazardous waste to Buttonwillow Landfill for disposal. A Uniform Hazardous Waste Manifest, signed by the generator and transporter, was sent with each truckload. A copy of the generator-, transporter- and landfill-signed waste manifests, and the landfill-generated weight summary report for disposal of the hazardous soil is provided in Attachment D.

Thirteen truckloads of soil (totaling 279.97 tons) were transported as non-hazardous waste to Recology Hay Road Landfill. Each truckload was sent with a Non-Hazardous Waste Manifest that included the Waste Profile Number. A copy of the signed manifest forms, and the Recology Hay Road Landfill-generated weight summary report for disposal of the non-hazardous soil is provided in Attachment E.

## **AIR MONITORING**

Tetra Tech performed perimeter air monitoring to document air quality conditions around the perimeter of the work area, including locations closest to the adjacent residential homes, during the periods of soil excavation conducted on August 26 and 27 and for the excavation, loading and off-hauling conducted on October 21 and 22, 2013.

Air quality was monitored at three locations around the perimeter of the work area during each excavation event and during the loading and off-haul. For the August 26 and 27, 2013 excavation, air quality instruments were placed at one location on the southern fence line near the western soil excavation areas; along the southern fence line near the eastern soil excavation areas; and along the northern fence line (Figure 4). The western-most air monitoring location was moved onto the Eden Avenue property during the October soil excavation event to monitor the excavation completed within the southwestern corner of the 24137 Eden Avenue parcel.

Each of the monitoring stations consisted of a real-time particulate monitor (dust monitor) and a 1-liter per minute (LPM) air sampling pump fitted with a particulate filter cartridge. The dust meters operated during the majority of each 8-hour work day on August 26 and 27 and October 21 and 22, and the air sampling pumps operated during the soil excavation and stockpiling activities that occurred each day. The air sampling pumps operated 2.5 hours on August 26th and for 5.8 hours on August 27, resulting in an 8.3-hour sample period for each of the air sampling pumps. During the second excavation event the air sampling pumps operated for 8 hours on October 21.

# **Air Sampling Pumps**

The three air sampling pumps (Model Aircheck 52) were fitted with particulate filters (SKS-West ST PUF 76 mm). The three particulate filters were submitted to Galson Laboratories under chain of custody protocols after each of the two 8-hour monitoring events (August 26 and 27, and October 21). Galson Laboratories in turn submitted the samples to Bureau Veritas North America in Novi, Michigan for analysis of 21 organochlorine pesticides, including Beta-BHC and DDT / DDD / DDE, and PCBs, using EPA Method TO-10A.

No pesticide or PCB compounds were detected during each of the two monitoring events. The laboratory reporting limit was 0.05 micrograms (ug) for all compounds except toxaphene, which had a reporting limit of 1 ug. Laboratory results were converted from a weight to a

concentration using the amount of air which passed through the filters. Laboratory results were therefore reported in concentration units of milligrams per cubic meter (mg/m³), as presented on the laboratory analytical data sheets provided in Attachment F. Sample results varied from <0.000098 mg/m³ (October east fence sample) to <0.00010 mg/m³ (August east fence sample) for all compounds except toxaphene, which had a reporting limit of <0.0015 to <0.0022 mg/m³, and is not a chemical of concern at the Property

The sample results were compared to State of California OSHA permissible exposure limit (PEL) time weighted average (TWA) values for chlordane and DDT (Title 8, Section 5155, Table AC-1) to confirm that the reporting limits were below corresponding action levels. The compounds DDD and DDE do not have corresponding PEL values. The PELs for chlordane and DDT are 0.5 mg/m³ and 1 mg/m³, respectively. The laboratory reporting limits were well below the target health concentrations (PEL values).

## **Dust Monitors**

Dust monitors (Thermo Personal Data RAM Aerosol Monitor) provided real-time visual observations of airborne dust and were used to evaluate whether dust suppression activities were adequate. Real-time aerosol monitors were used to evaluate total dust concentrations expressed in mg/m³. Real-time dust measurements, time weighted average dust measurements, along with the current weather conditions, and the activities being conducted at the time were documented in field monitoring logs at approximately 15-minute intervals during the duration of the activities with the potential for creating dust. The results of the monitoring were compared to a concentration 0.5 mg/m³, which is the State of California OSHA PEL for chlordane (assuming all measured dust was chlordane). The dust monitoring results were all below 0.5 mg/m³.

Dust was not detected in the dust monitors during the soil excavation or loading activities and no dust was observed in the air. Moisture retained in the covered stockpiles and additional soil wetting during truck loading was sufficient to control dust emissions. Results of the air monitoring indicate that wetting of the soil prior to and during the excavation and stockpiling activities was effective in suppressing dust and not allowing pesticide-impacted dust from leaving the Property.

# SUMMARY AND CONCLUSION

A total of 329.41 tons of pesticide-impacted soil were excavated from the Property and transported off site for disposal. A total of 279.97 tons of soil was disposed at the Recology Hay Road Landfill as non-hazardous waste and a total of 49.44 tons of soil were disposed at the Buttonwillow Landfill as hazardous waste.

Based on the confirmation soil analytical results, the pesticide-impacted soil exceeding residential land use criteria has been removed from the Property.

Air monitoring results and field observations showed that soil containing elevated concentrations of pesticides did not migrate off-site during the soil excavation and truck loading activities.

# **CLOSURE**

Please contact Tim Costello should you have any questions about the soil cleanup activities GEOLOG, described above.

Sincerely,

Tetra Tech, Inc.

Tim Costello **Senior Scientist** 

**Associate** 

Casey Scott, PG Senior Scientist

CASEYS. SCOTT No. 8529

OF

CALIFOR

# Attachments:

# **FIGURES**

Figure 1	Site Location Map
Figure 2	Plot Plan
Figure 3	Former Soil Sample Locations 1990 - 1991
Figure 4	Overview of Excavation, Sampling, and Air Monitoring Locations
Figure 5	23830 Saklan Road Soil Sample Results,
Figure 6	24137 Eden Avenue Soil Sample Results,
Figure 7	23836 Saklan Road Sample Results, February / March 2013
Figure 8	Soil Excavation Areas and Confirmation Sampling Results, 23836 Saklan
	Road
Figure 9	Close-up of 23836 Saklan Road Soil Excavation Areas, Showing
	Selected Sample Results
Figure 10	Close-up of 24137 Eden Avenue Soil Excavation Areas

# **TABLES**

Table 1	Analytical Results Summary – Surface Soil Samples, 23830 Saklan Road
Table 2	Analytical Results Summary – Surface Soil Samples, 23836 Saklan Road

Mr. Fisher

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Table 3 Analytical Results Summary – Surface Soil Samples, 24137 Eden

Avenue

Table 4 Analytical Results Summary - Disposal Profile Soil Samples, 23836

Saklan Road

Table 5 Analytical Results Summary – Confirmation Soil Samples, 23836 Saklan

Road

## **ATTACHMENTS**

Attachment A Photo Log

Attachment B Additional Phase II Investigation Laboratory Analytical Data

Sheets and Chain of Custody Forms

Attachment C Soil Profile and Confirmation Soil Sample Laboratory Analytical

Data Sheets and Chain of Custody Forms

Attachment D Hazardous Waste Manifests and Landfill Weight Report

Attachment E Non-hazardous Waste Manifests and Landfill Weight Report

Attachment F Perimeter Air Monitoring Analytical Data Sheets and Chain of

**Custody Form** 

TABLE 1
Analytical Results Summary - Surface Soil Samples
23830 Saklan Road
Hayward, California

				O.C. I	Pesticides 8081A	(µg/Kg)		
Sample ID	Date	alpha- BHC	beta-BHC	delta- BHC	Chlordane	4,4´-DDD	4,4´-DDE	4,4´-DDT
30-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS2-0.5'	2/26/2013	< 20	< 100	< 100	220	< 150	< 150	< 150
30-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	1,300	1,400
30-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	180	< 150
30-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS8-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS9-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	170	< 150
30-GS13-0.5'	2/26/2013	< 20	< 100	< 100	< 200	170	430	< 150
30-GS14-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	250	200
30-GS15-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	200	330
30-GS16-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	210	240
30-GS17-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	200
30-GS18-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	570	690
30-GS19-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	160
RS	L	77	270	nv	1,600	2,000	1,400	1,700
TTL	C	nv	nv	nv	2,500	1,000	1,000	1,000
СНН	SL	nv	nv	nv	430	2,300	1,600	1,600
ES	L	nv	nv	nv	440	2,400	1,700	1,700

Notes:	
μg/Kg CHHSL	See laboratory analytical data sheets for list of compounds and reporting limits; <b>Results in BOLD exceed agency screening criteria.</b> micrograms per kilograms or parts per billion (ppb). California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil
CHITISE	screening numbers based on total exposure to contaminated soil: inhalation, ingestion, dermal absorption.
ESL	Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, February 2013
nv	no value.
TTLC	Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.
RSL	EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013
O.C.	Organochlorine

#### TABLE 2 Analytical Results Summary - Surface Soil Samples 23836 Saklan Road Hayward, California

Valley Oak Partners Hayward Properties

					O.C. Pesticides	s 8081A (µg/	Kg)			PCBs by EPA Method 8082A (µg/Kg)		CAM Metals	by EPA Me (mg/Kg)	ethod 6010		801	PH 15M g/Kg)
Sample ID	Date	alpha- BHC	beta- BHC	delta- BHC	Chlordane	4,4´-DDD	4,4'-DDE	4,4'-DDT	Meth- oxychlor	Aroclor 1260	Cadmium	Chromium	Lead	Nickel	Zinc	Diesel	ē
36-GS1-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150								
36-GS2-0.5'	02/27/2013	< 40	< 200	< 200	< 400	< 300	< 300	< 300	< 300								
36-GS3-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150								
36-GS4-0.6'	02/27/2013	< 20	< 100	< 100	< 200	< 150	180	< 150	< 150								
36-GS5-0.5'	02/27/2013	< 40	< 200	< 200	< 400	< 300	< 300	< 300	< 300								
36-GS6-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	430	610	< 150								
36-GS7-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150								
36-GS8-0.5'	02/27/2013	< 20	530	< 100	< 200	< 150	1,000	1,300	< 150								
36-GS8-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150								
36-GS9-0.5'	02/27/2013	< 20	290	< 100	< 200	< 150	430	< 150	< 150	< 20							
36-GS10-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	270	< 150	< 150	< 20							
36-GS11-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	310	230	< 150	< 20							
36-GS12-0.5'	02/27/2013	< 20	310	< 100	< 200	180	850	380	< 150	640							
36-GS12-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20							
36-GS13-0.5'	02/27/2013	< 20	610	< 100	< 200	< 150	650	590	< 150	< 20							
36-GS13-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150								
36-GS14-0.5'	02/27/2013	45	1,200	110	< 200	< 150	1,300	1,400	260	1,400							
36-GS14-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20							
36-GS15-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	320	170	< 150	< 20							
36-GS16-0.5'	02/27/2013	< 20	220	< 100	< 200	< 150	1,400	610	< 150	1,200	< 1.0	100	21	39	120	< 1.0	14
36-GS16-1.5'	03/27/2013									< 20							
36-GS17-0.5'	02/27/2013	< 20	110	< 100	< 200	< 150	240	< 150	< 150	< 20							
36-GS18-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20							
36-GS19-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	310	220	< 150								
36-GS20-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	160	< 150	< 150								
36-GS21-0.5'	03/27/2013									< 20							
36-GS22-0.5'	03/27/2013									< 20							
36-GS23-0.5'	03/27/2013									< 20							
36-GS24-0.5'	03/27/2013									< 20							
36-GS25-0.5'	03/27/2013									< 20							
R	SL	77	270	nv	1,600	2,000	1,400	1,700	310,000	220	70	120,000	400	1,500	23,000	nv	nv
TT	LC	nv	nv	nv	2,500	1,000	1,000	1,000	100,000	50,000	100	2,500	1,000	2,000	5,000	nv	nv
CH	HSL	nv	nv	nv	430	2,300	1,600	1,600	340,000	89	1.7	100,000	80	1,600	23,000	nv	nv
E	SL	nv	nv	nv	440	2,400	1,700	1,700	390,000	220	1.2	750	80	150	600	100	500

	ESL	nv	nv	nv	440	2,400	1,700	1,700	390,000	220	1.2	750	80	150	600	100	5
Notes:																	_
	See laboratory analytic	cal data sheet	s for list of c	compounds and i	reporting limitsRes	sults in BOLD ex	ceed agency	screening cr	iteria.								
CAM	California Assessment	Manual															
mg/Kg	milligrams per kilogram	ns or parts pe	r million (ppi	m).													
μg/Kg	micrograms per kilogra	ams or parts p	er billion (pp	ob).													
	Not analyzed.																
CHHSL	California Human Heal	th Screening	Level, Office	e of Environmen	tal Health Hazard	Assessment, Ta	ble 1, Residen	tial Soil, Septe	ember 2010. Soil s	creening numbers bas	ed on total exposu	re to contamina	ited soil: inhalati	on, ingestion,	dermal absorption	on.	
ESL	Environmental Screeni	ing Level, RW	/QCB - San	Francisco Regio	on, Table A-1, Dire	ect Exposure, Hu	man Health, S	hallow Soil So	reening Levels, Re	sidential Land Use, Ma	ıy 2013						
nv	no value.																
TPH	Total Petroleum Hydro	carbons															
TTLC	Total Threshold Limit C	Concentration	s, Title 22; li	mit for off-site di	sposal as a haza	rdous waste.											
RSL	EPA Regional Screening	ng Levels, Su	mmary Tabl	le, Residential S	oil, May 2013												
O.C.	Organochlorine																

P-\PROJECTS\Valley Oak Partners\Hayward (117-7059010.01)\Phase II ESA\Data Tables.xisx\23836

TABLE 3 **Analytical Results Summary - Surface Soil Samples** 24137 Eden Avenue Hayward, California

					O.C. Pe	esticides 80	)81Α (μg/Κ <u>ί</u>	1)			CAN	I Metals by E	PA Metho	od 6010 (mg	g/Kg)	TF 801 (mg,	
Sample ID	Date	alpha- BHC	beta- BHC	delta- BHC	Chlordane	4,4'-DDD	4,4′-DDE	4,4´-DDT	Dieldrin	Heptachlor epoxide	Cadmium	Chromium	Lead	Nickel	Zinc	Diesel	II.O
37-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS2-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS8-1.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	< 1.0	42	< 10	43	51	< 1.0	89
37-GS9-0.5'	2/26/2013	< 20	< 100	< 100	340	< 150	< 150	< 150	< 10	< 20							
37-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20							
37-GS13-0.5'	2/26/2013	< 20	< 100	< 100	200	< 150	< 150	< 150	< 10	< 20							
37-GS14-0.5'	2/26/2013	< 20	< 100	< 100	260	< 150	< 150	< 150	< 10	< 20							
37-GS15-0.5'	2/26/2013	< 20	< 100	< 100	460	< 150	< 150	< 150	< 10	< 20							
37-GS15-1.5'	9/30/2013	< 20	< 100	< 100	210	< 150	< 150	< 150	< 10	< 20							
37-GS16-0.5'	9/30/2013	< 20	< 100	< 100	1,700	< 150	< 150	< 150	< 10	< 20							
37-GS17-0.5'	9/30/2013	< 20	< 100	< 100	1,100	< 150	< 150	< 150	< 10	< 20							
37-GS18-0.5'	9/30/2013	< 20	< 100	< 100	1,000	< 150	< 150	< 150	< 10	< 20							
37-GS19-0.5'	10/10/2013	< 17	< 17	< 17	930	< 33	79	120	52	22							
37-GS20-0.5'	10/10/2013	< 17	< 17	< 17	120	< 33	< 33	< 33	< 30	< 17							
37-GS21-0.5'	10/10/2013	< 17	< 17	< 17	150	< 33	< 33	< 33	< 30	< 17							
37-GS22-0.5'	10/10/2013	< 17	< 17	< 17	< 33	< 33	< 33	< 33	< 30	< 17							
RS	SL	77	270	nv	1,600	2,000	1,400	1,700	30	53	70	120,000	400	1,500	23,000	nv	nv
TT	LC	nv	nv	nv	2,500	1,000	1,000	1,000	8,000	nv	100	2,500	1,000	2,000	5,000	nv	nv
CHI	HSL	nv	nv	nv	430	2,300	1,600	1,600	35	nv	1.7	100,000	80	1,600	23,000	nv	nv
ES	SL	nv	nv	nv	440	2,400	1,700	1,700	2.3	14	1.2	750	80	150	600	100	500

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits; Results in BOLD exceed agency screening criteria.

CAM California Assessment Manual

mg/Kg milligrams per kilograms or parts per million (ppm). μg/Kg micrograms per kilograms or parts per billion (ppb).

Not analyzed.

California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exposure to contaminated soil: inhalation, ingestion, dermal absorption.

CHHSL ESL Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, May 2013.

no value.

Total Petroleum Hydrocarbons TPH

TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.

RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013

O.C. Organochlorine

#### TABLE 4 Analytical Results Summary - Disposal Profile Soil Samples 23836 Saklan Road Hayward, California

					Pe	sticide	s (O.C.	) 8081	A (μg/	Kg)					CAM Metals by EPA Method 6010 (mg/Kg)						STLC		8015N	/I (mg/Kg)										
Sample ID	Sample Date	alpha-BHC	beta-BHC	4,4′-DDD	4,4′-DDE	4,4′-DDT	Chlordane	delta-BHC	Dieldrin	gamma-BHC (Lindane)	Heptachlor epoxide	Methoxychlor	PCBs by EPA Method 8082A (μg/Kg)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Chromium	BTEX by 8260B (µg/Kg)	Gasoline	Diesel Motor Oil
Pile 1	8/28/2013	< 17	99	< 33	230	180	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.4	190	0.53	< 0.50	64	11	26	18	< 0.10	< 1.0	46	< 2.5	< 0.50	< 1.0	45	81	NA	ND	< 0.20	< 1.0 23
Pile 2	8/28/2013	< 17	48	< 33	140	44	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.8	160	< 0.50	0.52	61	10	28	44	< 0.10	< 1.0	41	< 2.5	< 0.50	< 1.0	44	100	0.87	ND	< 0.20	< 1.0 26
Pile 3-1	8/28/2013	< 17	43	< 33	120	81	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.4	160	< 0.50	0.63	58	9.5	27	30	< 0.10	< 1.0	38	< 2.5	< 0.50	< 1.0	42	110	0.65	ND	< 0.20	< 1.0 39
Pile 3-2	8/28/2013	< 17	110	< 33	260	200	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.5	150	< 0.50	0.60	72	9.7	28	23	0.14	< 1.0	40	< 2.5	< 0.50	< 1.0	43	100	2.5	ND	< 0.20	< 1.0 29
	TLC	nv	nv	1,000	1,000	1,000	2,500	nv	8,000	400	nv	nv		500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	500 5 (mg/L)		nv	nv nv

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits.

SGT Silica Gel Treatment (to remove naturally occuring lipids and fats that may cause false positive results).

mg/Kg milligrams per kilograms or parts per million (ppm).

μg/Kg micrograms per kilograms or parts per billion (ppb).

mg/L milligrams per liter

TTLC Total Threshold Limit Concentration, CCR, Title 22, Chapter 11, Article 3; limit for off-site disposal as a hazardous waste.

STLC SolubleTotal Threshold Limit Concentration, CCR, Title 22, Chapter 11, Article 3; limit for off-site disposal as a hazardous waste.

ND Non Detected

NA Not Analyzed

no value

# TABLE 5 Analytical Results Summary - Confirmation Soil Samples 23836 Saklan Road Hayward, California

					O.C. Bootiside	s 8081A (µg/Kg)				PCBs by EPA Method 8082 (µg/Kg)
						s 8081A (µg/Kg)				(µg/kg)
Sample ID	Date	alpha-BHC	heta-R⊌C	delta-BHC	gamma-BHC (Lindane)	Chlordane	4.4´-DDD	4,4´-DDE	4.4′-DDT	Aroclor 1260
		•								
F-1 F-2	8/28/2013 8/28/2013	< 17 < 17	< 17 54	< 17 < 17	< 17 < 17	< 33 < 33	< 33 < 33	< 33 65	< 33 41	< 20 < 20
F-3	8/28/2013	< 17 < 17	54 < 17	< 17 < 17	< 17 < 17	< 33	< 33	55	< 33	< 20
F-4	8/28/2013	< 17 < 17	73	< 17 < 17	< 17 < 17	< 33	< 33	< 33	< 33	< 20
F-5	8/28/2013	< 17 < 17	/3 < 17	< 17 < 17	< 17 < 17	< 33	< 33	< 33	< 33	< 20 
r-5 F-6	8/28/2013	< 17 < 17	< 17 < 17	< 17 < 17	< 17 < 17	< 33	< 33	< 33	< 33	
			96				< 33			
SW-1	8/28/2013 8/28/2013	< 17 < 17	96 18	< 17 < 17	< 17 < 17	< 33 < 33	< 33 < 33	140	69 270	< 20 < 20
SW-2 SW-3	8/28/2013	< 17 < 17	18 < 17	< 17 < 17	< 17 < 17	< 33 < 33	< 33 < 33	550 65	270 43	< 20 < 20
SW-4	8/28/2013	< 17 < 17	< 17 190	< 17 < 17	< 17 < 17	< 33 < 33	< 33 < 33	65 470	43 350	< 20 < 20
SW-5		< 17 < 17	190 <b>400</b>	< 17 < 17	< 17 < 17		< 33 < 33	400	360	< 20 < 20
SW-6	8/28/2013 8/28/2013	< 17 < 17	100	< 17 < 17	< 17 < 17	< 33 < 33	< 33 < 33	400 33	< 33	< 20 < 20
SW-7	8/28/2013	< 17 < 17	440	< 17 < 17	< 17 < 17	< 33	< 33	33 310	330	< 20 
SW-8	8/28/2013	< 17 < 17	170	< 17 < 17	< 17 < 17	< 33	< 33	560	330	< 20
SW-9	8/28/2013		340		26	< 33			960	
		< 17		< 17			150	1,300		< 20
SW-10	8/28/2013 8/28/2013	< 17	190	< 17	< 17	< 33 < 33	40	980 33	720	< 20
SW-11		< 17	< 17	< 17	< 17		< 33	33 82	< 33	
SW-12	8/28/2013	< 17	25	< 17	< 17	< 33	< 33		< 33	
SW-13	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	110	56	
SW-14	8/28/2013	< 17	28	< 17	< 17	< 33	< 33	190	100	
SW-15	8/28/2013	< 17	83	< 17	< 17	< 33	< 33	190	50	
SW-16	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	< 33	< 33	
SW-17	9/10/2013	< 20	380	< 100	< 100	< 200	< 150	240	240	
SW-18	9/10/2013	< 20	180	< 100	< 100	< 200	< 150	900	780	
SO-SW-5-5'	9/10/2013	< 20	510	< 100	< 100	< 200	< 150	570	630	
SO-SW-5-10'	9/10/2013	< 40	300	< 200	< 200	< 400	< 300	430	350	
SO-SW-5-15'	9/30/2013	< 20	240	< 100	< 100	< 200	1,200	840	8,000	
SO-SW-5-20'	9/30/2013	< 20	< 100	230	< 100	< 200	< 150	1,200	730	
SO-SW-7-5'	9/10/2013	< 20	190	< 100	< 100	< 200	< 150	< 150	< 150	
SO-SW-9-5'	9/10/2013	< 20	390	< 100	< 100	< 200	< 150	170	160	
SO-SW-9-10'	9/30/2013	< 20	< 100	< 100	< 100	< 200	< 150	< 150	< 150	
SO-SW-17-5'	9/10/2013	< 40	< 200	< 200	< 200	< 400	< 300	540	320	
RS	L	77	270	nv	520	1,600	2,000	1,400	1,700	220
TTL	С	nv	nv	nv	400	2,500	1,000	1,000	1,000	50,000
CHH	SL	nv	nv	nv	500	430	2,300	1,600	1,600	89
ESI	L	nv	nv	nv	21,000	440	2,400	1,700	1,700	220

Notes	

See laboratory analytical data sheets for list of compounds and reporting limits; Results in BOLD exceed agency screening criteria.

mg/Kg milligrams per kilograms or parts per million (ppm).  $\mu$ g/Kg micrograms per kilograms or parts per billion (ppb).

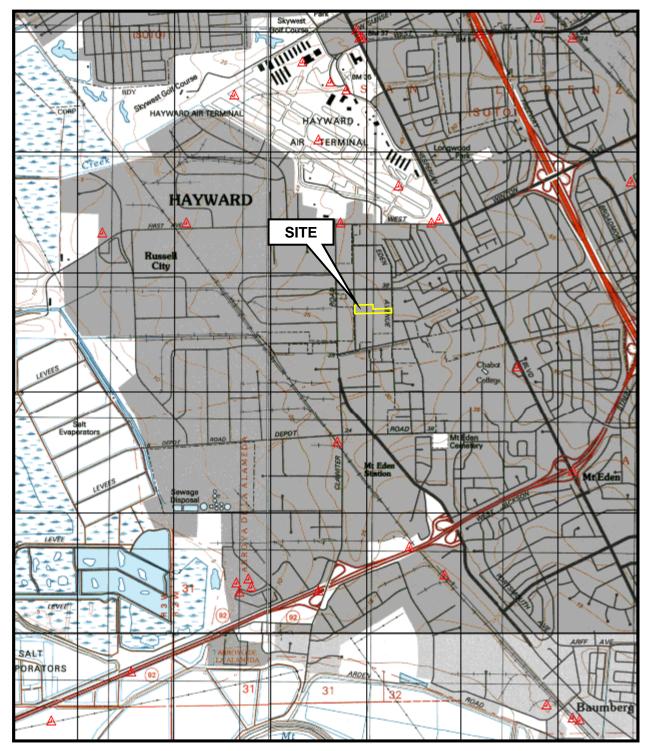
--- Not analyzed.

CHHSL California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exp Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, May 2013

nv no value.

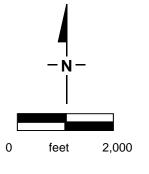
TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.

RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013



SOURCE: HAYWARD, CALIFORNIA 7.5-MINUTE QUADRANGLE, 1981.

TITLE:



Site Location Map

LOCATION: 23830 & 23836 Saklan Road and 24137 Eden Avenue

Hayward, California



CHECKED:	TC	FIGURE:
DRAFTED:	KEM	
FILE:	117-7059010	
DATE:	11/5/2013	



- 1 Agriculture Well
- Water Well
- 3 Septic Location (approx.)
- 4 Garage/Workshop
- **5** Sump Feature, Possible Septic Tank
- 6 Garage/Office Structure
- 7 Garden Shed/Landscape Equipment Storage
- 8 House
- Garden

TITLE: **Plot Plan** 

LOCATION:

23830 & 23836 Saklan Road and 24137 Eden Avenue Hayward, California



CHECKED:	TC	FIGURE:
DRAFTED:	KEM	
FILE:	117-7059010	4
DATE:	11/5/2013	

0

feet

180



DATE:

11/4/2013



# Legend:

- Initial Surface soil sample location (February 2013)
- ▲ Follow-up soil sample location (March October 2013)
- Air Monitoring Station
- Dust Monitoring Station
- Soil Excavation Area

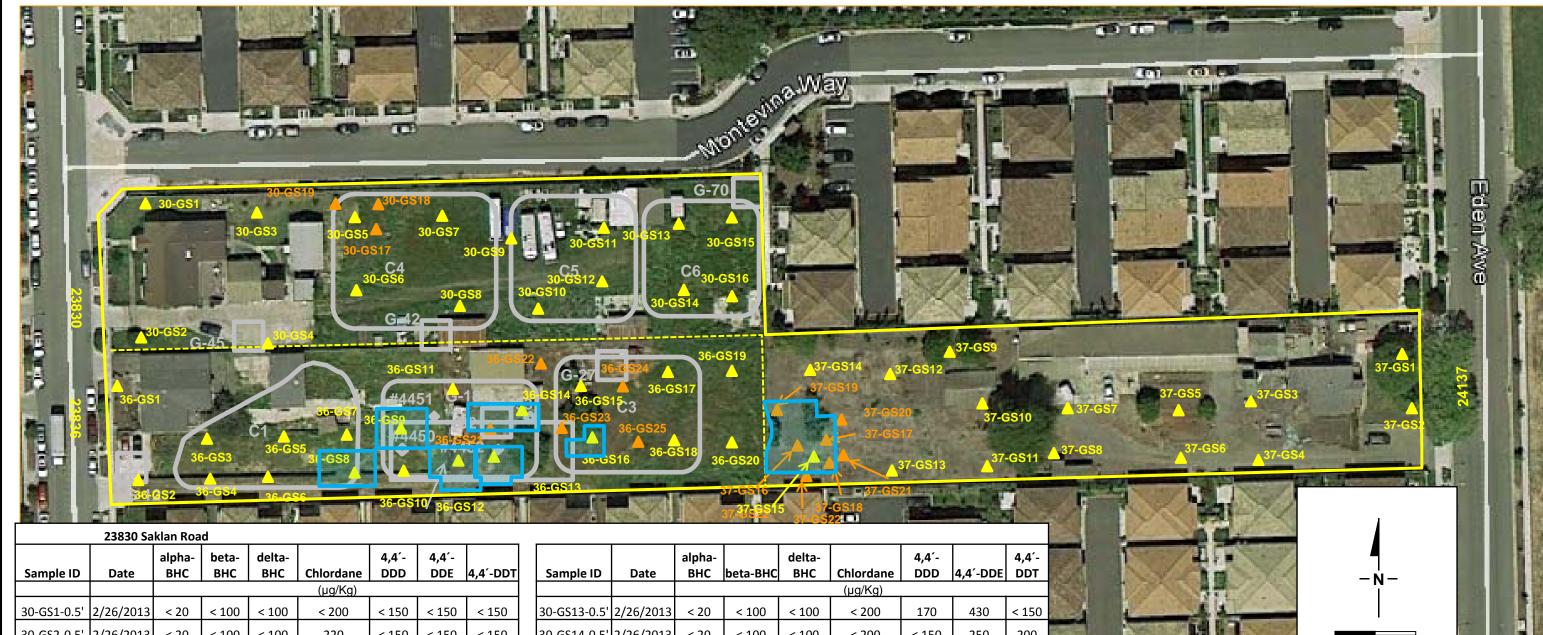


LOCATION: 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California



	CHECKED:	TC				
1	DRAFTED:	KEM				
•	FILE:	117-7059010				
	DATE:	11/4/2013				

4



		alpha-	beta-	delta-		4,4′-	4,4′-	
Sample ID	Date	внс	внс	внс	Chlordane	DDD	DDE	4,4´-DDT
					(µg/Kg)			
30-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS2-0.5'	2/26/2013	< 20	< 100	< 100	220	< 150	< 150	< 150
30-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	1,300	1,400
30-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	180	< 150
30-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS8-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS9-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	170	< 150
RS	L	77	270	nv	1,600	2,000	1,400	1,700
TTL	.c	nv	nv	nv	2,500	1,000	1,000	1,000
СНН	SL	nv	nv	nv	430	2,300	1,600	1,600
ES	L	nv	nv	nv	440	2,400	1,700	1,700

Sample ID	Date	alpha- BHC	beta-BHC	delta- BHC	Chlordane	4,4´- DDD	4,4′-DDE	4,4´- DDT
•					(µg/Kg)			
30-GS13-0.5'	2/26/2013	< 20	< 100	< 100	< 200	170	430	< 150
30-GS14-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	250	200
30-GS15-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	200	330
30-GS16-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	210	240
30-GS17-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	200
30-GS18-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	570	690
30-GS19-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	160

Legend:

Initial Surface soil sample location (February 2013)

Follow-up soil sample location (September – October 2013)

Soil Excavation Area

Notes: nv = no value

NA = Not Analyzed

TITLE: 23830 Saklan Road Soil Sample Results

23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California



• • •	Coda ana 2+107 L	acii Avenae, naywa	u, \
	CHECKED:	TC	FIG
1	DRAFTED:	KEM	
	FILE:	117-7059010	
	DATE:	11/4/2013	

(approximate)



= 1107 EGC	1171701140					
Sample ID	Date	Chlordane	4,4´- DDE	4,4´- DDT	Dieldrin	Heptachlor epoxide
				(μg/K	g)	
37-GS1-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS2-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS3-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS4-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS5-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS6-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS7-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS8-1.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS9-0.5'	2/26/2013	340	< 150	< 150	< 10	< 20
37-GS10-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS11-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS12-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
<u> </u>						
RS	iL	1,600	1,400	1,700	30	53
TTI	LC	2,500	1,000	1,000	8,000	nv
CHI	ISL	430	1,600	1,600	35	nv
ES	L	440	1,700	1,700	2.3	14

Sample ID	Date	Chlordane	4,4´-DDE	4,4´-DDT	Dieldrin	Heptachlor epoxide				
			(μg/Kg)							
37-GS13-0.5'	2/26/2013	200	< 150	< 150	< 10	< 20				
37-GS14-0.5'	2/26/2013	260	< 150	< 150	< 10	< 20				
37-GS15-0.5	2/26/2013	460	< 150	< 150	< 10	< 20				
37-GS15-1.5'	9/30/2013	210	< 150	< 150	< 10	< 20				
37-GS16-0.5	9/30/2013	1,700	< 150	< 150	< 10	< 20				
37-GS17-0.5	9/30/2013	1,100	< 150	< 150	< 10	< 20				
37-GS18-0.5	9/30/2013	1,000	< 150	< 150	< 10	< 20				
37-GS19-0.5'	10/10/2013	930	79	120	52	22				
37-GS20-0.5'	10/10/2013	120	< 33	< 33	< 30	< 17				
37-GS21-0.5'	10/10/2013	150	< 33	< 33	< 30	< 17				
37-GS22-0.5'	10/10/2013	< 33	< 33	< 33	< 30	< 17				

Notes: nv = no value NA = Not Analyzed

# Legend:

TITLE:

Initial Surface soil sample location (February 2013)

Follow-up soil sample location (September – October 2013)

Soil Excavation Area

24137 Eden Avenue Soil Sample Results 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California FIGURE:



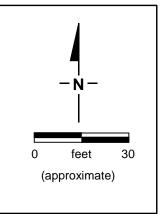
CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

6



23836 Sak	23836 Saklan Road							
Sample ID	Sample Depth (ft)	alpha- BHC	beta-BHC	delta- BHC	DDD	DDE	DDT	PCBs - Aroclor 1260
			-		(µg/Kg)	-		-
36-GS1	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS2	0.5'	< 40	< 200	< 200	< 150	< 150	< 150	
36-GS3	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS4	0.5'	< 20	< 100	< 100	< 150	180	< 150	
36-GS4	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS6	0.5'	< 20	< 100	< 100	< 150	430	610	
36-GS7	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS8	0.5'	< 20	530	< 100	< 150	1,000	1,300	
36-GS8	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS9	0.5'	< 20	290	< 100	< 150	430	< 150	< 20
36-GS10	0.5'	< 20	< 100	< 100	< 150	270	< 150	
36-GS11	0.5'	< 20	< 100	< 100	< 150	310	230	
36-GS12	0.5'	< 20	310	< 100	180	850	380	640
36-GS12	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
36-GS13	0.5'	< 20	610	< 100	< 150	650	590	< 20
36-GS13	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS14	0.5'	45	1,200	110	< 150	1,300	1,400	1,400
36-GS14	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
RS	SL	77	270	nv	2,000	1,400	1,700	220
E:	SL	nv	nv	nv	2,400	1,700	1,700	220
Notes:	LC	nv	nv	nv	1,000	1,000	1,000	50,000

Sample ID	Sample Depth (ft)	alpha- BHC	beta-BHC	delta-BHC	DDD	DDE	DDT	PCBs - Aroclor 1260
	. , ,		!	!	(µg/Kg)			!
36-GS15	0.5'	< 20	< 100	< 100	< 150	320	170	
36-GS16	0.5'	< 20	220	< 100	< 150	1,400	610	1,200
36-GS16	1.5'	-			-	1	1	< 20
36-GS17	0.5'	< 20	110	< 100	< 150	240	< 150	
36-GS18	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
36-GS19	0.5'	< 20	< 100	< 100	< 150	310	220	
36-GS20	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	
36-GS21	0.5'	1				1	1	< 20
36-GS22	0.5'							< 20
36-GS23	0.5'							< 20
36-GS24	0.5'							< 20
36-GS25	0.5'	-						< 20
RSL		77	270	nv	2,000	1,400	1,700	220
ESL		nv	nv	nv	2,400	1,700	1,700	220
TTLC		nv	nv	nv	1,000	1,000	1,000	50,000



# Legend:

36-GS18 🔼

Initial and follow-up soil sample location (February/March 2013)

23836 Saklan Road Soil Sample Results, February / March 2013

DCATION: 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California



		, <b>,</b>
	CHECKED:	TC
_	DRAFTED:	KEM
	FILE:	117-7059010
	DATE:	11/4/2013

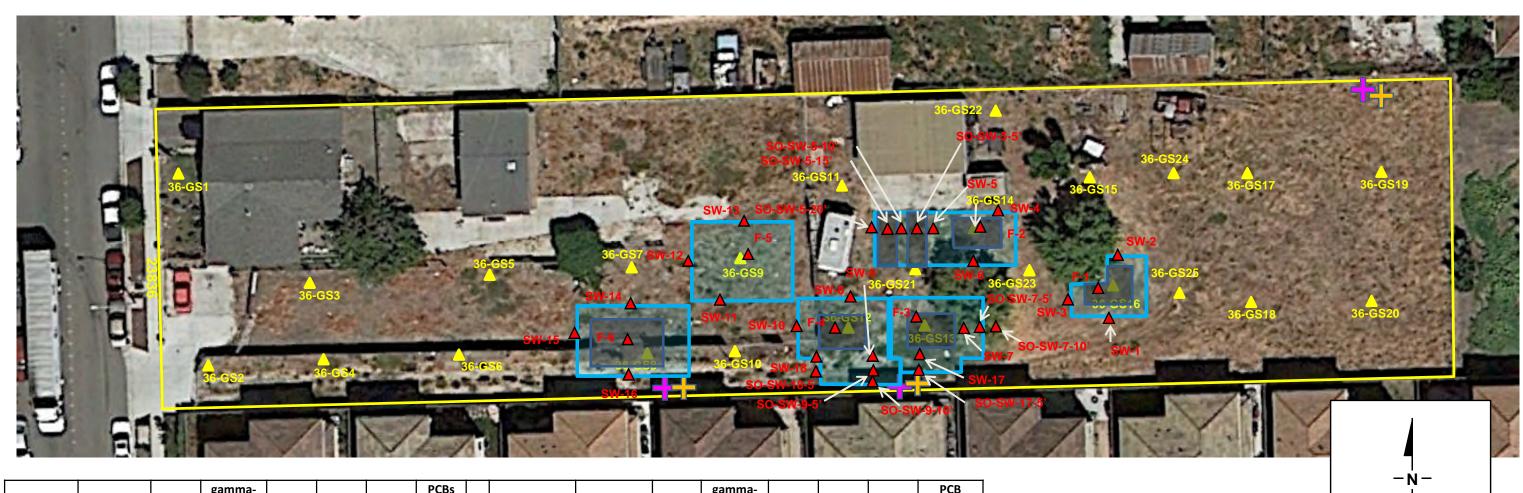
7

FIGURE:

Notes:

nv = no value

NA = Not Analyzed



		beta-	gamma- BHC				PCBs Aroclor
Sample ID	Date	ВНС	(Lindane)	DDD	DDE	DDT	1260
			•	(µg/K	(g)		
F-1	8/28/2013	< 17	< 17	< 33	< 33	< 33	< 20
F-2	8/28/2013	54	< 17	< 33	65	41	
F-3	8/28/2013	< 17	< 17	< 33	55	< 33	< 20
F-4	8/28/2013	73	< 17	< 33	< 33	< 33	
F-5	8/28/2013	< 17	< 17	< 33	< 33	< 33	< 20
F-6	8/28/2013	< 17	< 17	< 33	< 33	< 33	
SW-1	8/28/2013	96	< 17	< 33	140	69	
SW-2	8/28/2013	18	< 17	< 33	550	270	< 20
SW-3	8/28/2013	< 17	< 17	< 33	65	43	< 20
SW-4	8/28/2013	190	< 17	< 33	470	350	< 20
SW-5	8/28/2013	400	< 17	< 33	400	360	< 20
SO-SW-5-5'	9/10/2013	510	< 100	< 150	570	630	
SO-SW-5-10'	9/10/2013	300	< 200	< 300	430	350	
SO-SW-5-15'	9/30/2013	240	< 100	1,200	840	8,000	
SO-SW-5-20'	9/30/2013	< 100	< 100	< 150	1,200	730	
SW-6	8/28/2013	100	< 17	< 33	33	< 33	< 20
SW-7	8/28/2013	440	< 17	< 33	310	330	< 20
RSL		270	520	2,000	1,400	1,700	220
TTLC		nv	400	1,000	1,000	1,000	50,000
CHHSL		nv	500	2,300	1,600	1,600	89
ESL		nv	21,000	2,400	1,700	1,700	220

			gamma-				PCB
		beta-	внс				Aroclor
Sample ID	Date	ВНС	(Lindane)	DDD	DDE	DDT	1260
				(µg/	/Kg)		
SO-SW-7-5'	9/10/2013	190	< 100	< 150	< 150	< 150	
SO-SW-7-10'	9/10/2013	NA	NA	NA	NA	NA	NA
SW-8	8/28/2013	170	< 17	< 33	560	330	
SW-9	8/28/2013	340	26	150	1,300	960	< 20
SO-SW-9-5'	9/10/2013	390	< 100	< 150	170	160	
SO-SW-9-10'	9/30/2013	< 100	< 100	< 150	< 150	< 150	
SW-10	8/28/2013	190	< 17	40	980	720	< 20
SW-11	8/28/2013	< 17	< 17	< 33	33	< 33	
SW-12	8/28/2013	25	< 17	< 33	82	< 33	
SW-13	8/28/2013	< 17	< 17	< 33	110	56	
SW-14	8/28/2013	28	< 17	< 33	190	100	
SW-15	8/28/2013	83	< 17	< 33	190	50	
SW-16	8/28/2013	< 17	< 17	< 33	< 33	< 33	
SW-17	9/10/2013	380	< 100	< 150	240	240	
SO-SW-17-5'	9/10/2013	< 200	< 200	< 300	540	320	
SW-18	9/10/2013	180	< 100	< 150	900	780	
SO-SW-18	9/10/2013	NA	NA	NA	NA	NA	NA
RSL		270	520	2,000	1,400	1,700	220
TTLC		nv	400	1,000	1,000	1,000	50,000
CHHSL		nv	500	2,300	1,600	1,600	89
ESL		nv	21,000	2,400	1,700	1,700	220

# Legend:

Initial and follow-up soil sample location (February/March 2013)

- Soil Excavation Area

- Excavation Area – Managed as Hazardous

- Confirmation Soil Sample Location SW-1 to SW-16 Sidewall approx. 0.5' F-1 to F-6 Floor Sample approx. 1.0'

Soil Excavation Areas and Confirmation Sampling Results,

23836 Saklan Road

23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California FIGURE:



· · · · · · · · · · · · · · · · · · ·		
-	CHECKED:	TC
	DRAFTED:	KEM
	FILE:	117-7059010
	DATE:	11/4/2013

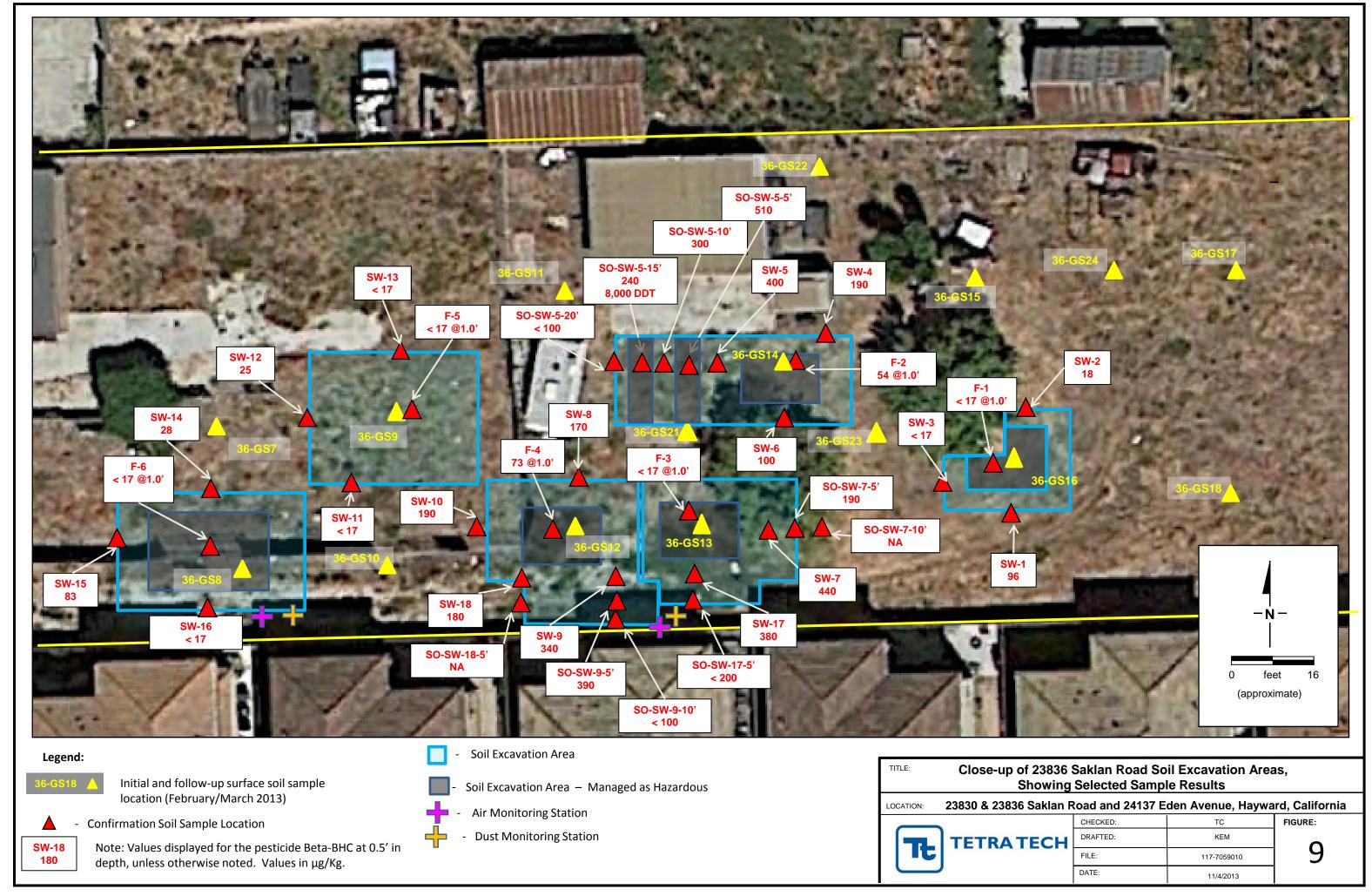
Notes:

nv = no value NA = Not Analyzed



- Air Monitoring Station - Dust Monitoring Station

(approximate)





O feet 16 (approximate)

10

37-GS18 🛆

Initial surface soil sample location (February 2013)

37-GS22

Follow-up surface soil sample location (September – October 2013)

<u>.</u>

Soil Excavation Area

- Air Monitoring Station

- Dust Monitoring Station

Close-up of 24137 Eden Avenue Soil Excavation Areas

LOCATION: 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California



CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

**ATTACHMENT A** 

**Photo Log** 



**PHOTO 1:** Southern portion of Property prior to excavation, looking east. Roadway surface consisted of gravel and intermittent asphalt and concrete. Fence on left was removed prior to excavation.



**PHOTO 3:** Southwest corner of 36-GS12 excavation area, looking northeast. Fence was removed prior to excavation.



PHOTO 2: 36-GS9 area prior to excavation, looking east.



**PHOTO 4:** Southwest corner of 36-GS13 excavation area prior to excavation, looking northeast.

28386 Saklan Road / 24317 Eden Avenue, Hayward, California

August to October, 2013

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**PHOTO 5:** Southeast corner of 36-GS14 area prior to excavation, looking northwest.



**PHOTO 7:** Excavation of 36-GS8 area. Soil was placed in stockpile for disposal at Class 1 facility. View to south.



**PHOTO 6:** 36-GS16 area prior to excavation, looking north. Private well with pressure tank located under tree limbs.



**PHOTO 8:** Transferring excavated soil from excavator to loader. Water application for dust control. Looking to the southwest.

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**August to October, 2013** 

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PHOTO 9: 36-GS8 after initial excavation, looking to the west.



PHOTO 11: Pre-watering for dust control prior to excavation.



PHOTO 10: View of 36-GS13 during initial excavation.

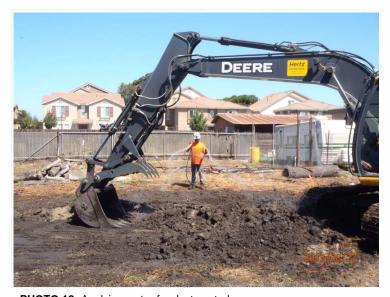


PHOTO 12: Applying water for dust control.

28386 Saklan Road / 24317 Eden Avenue, Hayward, California

August to October, 2013

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PHOTO 13: Application of water for dust control.



**PHOTO 15:** "East" dust and air monitoring station, located on south fence line, looking to the southeast.



**PHOTO 14:** View of 36-GS12 area during excavation with water application for dust control.



PHOTO 16: View of "West" dust and air monitoring station.

August to October, 2013

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**PHOTO 17:** 36-GS8 after completion of excavation and confirmation sampling, looking to the west. Blue flags mark sampling locations.



**PHOTO 19:** 36-GS12 and 36-GS13 areas after completion of excavation and confirmation sampling, looking west. Flags mark sampling locations.



28386 Saklan Road / 24317 Eden Avenue, Hayward, California



**PHOTO 18:** 36-GS12 and 36-GS13 areas after completion of excavation and confirmation sampling, looking to northwest. Flags mark sampling locations.



**PHOTO 20:** 36-GS14 areas after completion of excavation and confirmation sampling, looking northeast.

**August to October, 2013** 

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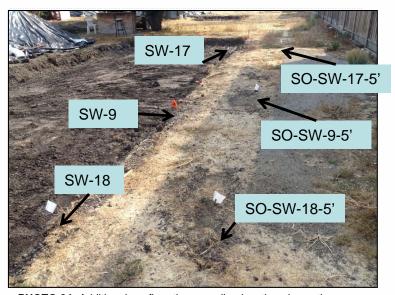
PHOTO 21: Sampling location SW-5, looking west.



**PHOTO 23:** View of completed excavation and confirmation sampling in 36-GS16 area, looking north.



**PHOTO 22:** View of completed excavation and confirmation sampling in 36-GS16 area, looking southwest.



**PHOTO 24:** Additional confirmation sampling locations in southern portion of Property, September 10, 2013, looking to the east.

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August to October, 2013

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**PHOTO 25:** Additional confirmation sampling locations east of sample SW-7, completed on September 10, 2013, looking to the north.



**PHOTO 27:** Sampling locations in the southwest portion of 24137 Eden Avenue, completed September 30, 2013, looking to the west.



**PHOTO 26:** Additional confirmation sampling locations west of sample SW-5, completed on September 10 and 30, 2013, looking to the east.



**PHOTO 28:** Step-out sampling locations near sampling location 30-GS5, completed September 30, 2013, looking to the west.

**August to October, 2013** 

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**PHOTO 29:** Sampling locations in the southwest portion of 24137 Eden Avenue completed October 10, 2013, looking to the west.



**PHOTO 31:** Additional excavation south of SW-9 on October 21, 2013, looking to the south. Water application for dust control.



**PHOTO 30:** Sampling locations in the southwest portion of 24137 Eden Avenue completed October 10, 2013, looking to the west.



**PHOTO 32:** Additional excavation south of SW-17 on October 21, 2013, looking to the southeast. Water application for dust control.

28386 Saklan Road / 24317 Eden Avenue, Hayward, California

**August to October, 2013** 

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**PHOTO 33:** Additional excavation west of SW-5 on October 21, 2013, looking to the southeast. Water application for dust control.



**PHOTO 35:** Dust control during stockpiling . Soil excavated from the southwest portion of 24137 Eden Avenue, October 21, 2013, looking to the northwest.



**PHOTO 34:** Removing bamboo in preparation for excavation in the southwest portion of 24137 Eden Ave.



**PHOTO 36:** Final excavation in the 36-GS12 area on October 21, 2013, looking east.

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August to October, 2013

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**PHOTO 37:** Final soil excavation area west of SW-5 on October 21, 2013, looking to the west.



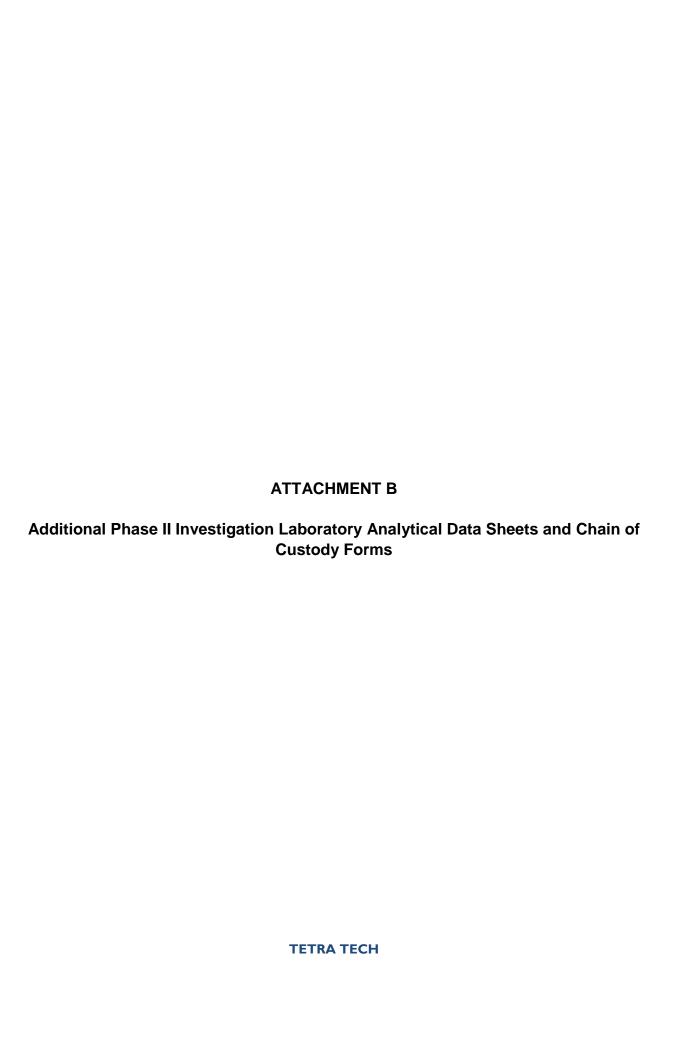
**PHOTO 38:** Final soil excavation area in the southwest portion of 24173 Eden Avenue property. Fence removed for truck access.

Photographic Log - Soil Dig & Haul

August to October, 2013

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## CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1127 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: 23830 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

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Project: 23830 Saklan Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 Rancho Cordova, CA 95670

CLS Work Order #: CWI1127

Project Manager: Tim Costello COC #:

		REPORT TO:		C.E	NT JOB NU	MOER		AN	CLS ID	EQUESTED	GE	OTI	RAC	KE	R.	
SAME AND ADDRESS S	Γetr	a Tech GEO		117-70	05901	2.01									YES	XN
		ct Park Drive			VION LAD		T					OB/				
Rancho C	ord			A CLS	(916) 6	38-7301	RE	31A				POSITE				
PROJECT WANAGER -	im	Costello (916)853-	1800	HANK	240 0080	01A, CA 95742	SE	80								
SAMPLED BY Garr	83	0 Saklan		OTH	IER		RVA	EPA			FIEL	COND	ITIONS	=		
WAS DESCRIBED TO THE PARTY OF T							PRESERVATIVES	les (								
		6 Samples					ES I	OC Pesticides (EPA 8081A)			TUE	IN ARC	UND	BMIT	SPECIAL INS	TRUCTIONS
DATE THE	iu	ard						Pes	Archive	기계되.		2	. 3	03	OR	
DATE	E 1	IDENTIFICATION		MATRIX	NO.	IANER TYPE	M	00	A S			10	- 0	1 0	ALT.	10:
9/30/13 093	0	30-GS-17		Soil	1	Glass		Х				X				
1 093	3	30-65-18		Soil	1	Glass		X				X				
W 093	8	30-GS-19		Soil	1	Glass		X				X				
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Page 2 of 7 10/03/13 16:53

Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-17 (CWI1127-01) Soil Sampled: 09/	/30/13 09:30 Recei	ved: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	200	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	II .	
Surrogate: Tetrachloro-meta-xylene		81 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		83 %	52	?-141	"	"	"	"	
30-GS-18 (CWI1127-02) Soil Sampled: 09/	/30/13 09:33 Recei	ved: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
peta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-18 (CWI1127-02) Soil Sampled: 09/	30/13 09:33 Receiv	ed: 09/30/13	15:35						
4,4′-DDD	ND	150	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4´-DDE	570	300	"	20	"	"	"	"	
4,4´-DDT	690	300	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		93 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		106 %		?-141	"	"	"	"	
30-GS-19 (CWI1127-03) Soil Sampled: 09/	30/13 09:38 Receiv	ed: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4′-DDD	ND	150	"	"	"	"	"	"	
4,4′-DDE	ND	150	"	"	"	"	"	"	
4,4′-DDT	160	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	,,	,,	,,	"	"	"	

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Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-19 (CWI1127-03) Soil	Sampled: 09/30/13 09:38 Recei	ved: 09/30/13	15:35						
Endosulfan sulfate	ND	150	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-x	vlene	86 %	46	-139	"	"	"	"	
Surrogate: Decachlorobipheny	l	108 %	52	-141	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 1	0/01/13 A	nalyzed: 10	/02/13			
Aldrin	ND	1.0	μg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4′-DDD	ND	15	"							
4,4′-DDE	ND	15	"							
4,4′-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.25		"	8.33		75	46-139			
Surrogate: Decachlorobiphenyl	9.24		"	8.33		111	52-141			
LCS (CW06517-BS1)				Prepared: 1	0/01/13 A	nalyzed: 10	/02/13			
Aldrin	13.6	1.0	μg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4′-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	6.82		"	8.33		82	46-139			

%REC

RPD

Page 6 of 7 10/03/13 16:53

Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Surrogate: Decachlorobiphenyl	9.03		μg/kg	8.33		108	52-141			
LCS Dup (CW06517-BSD1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	13.8	1.0	μg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4'-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	6.99		"	8.33		84	46-139			
Surrogate: Decachlorobiphenyl	9.01		"	8.33		108	52-141			
Matrix Spike (CW06517-MS1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.5	10	μg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4'-DDT	28.1	150	"	16.7	ND	169	41-157			QM-7T
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	19.2		"	20.8		92	46-139			
Surrogate: Decachlorobiphenyl	23.5		"	20.8		113	52-141			
Matrix Spike Dup (CW06517-MSD1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.1	10	μg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4'-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-7T
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	18.4		"	20.8		88	46-139			
Surrogate: Decachlorobiphenyl	24.7		"	20.8		118	52-141			

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Tetra Tech Geo Project: 23830 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1127

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QM-7T The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane

interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

## CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1129 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP - Hayward 24137 Eden

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

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Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

		REPORT TO:		COE	NT JOB N	MBER				D No.;			RAC			
NAME AND AD	Te	tra Tech GEO		117-71	05901	0.01										SXN
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Page 2 of 8 10/03/13 16:56

Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-16 (CWI1129-01) Soil Sampled: 0	9/30/13 08:45 Recei	ved: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	1700	200	"	"	"	"	"	"	
4,4′-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4′-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		72 %	46	6-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		81 %	52	?-141	"	"	"	"	
37-GS-17 (CWI1129-02) Soil Sampled: 0	9/30/13 08:48 Recei	ved: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	1100	200	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-17 (CWI1129-02) Soil Sampled: 09/	/30/13 08:48 Receiv	ed: 09/30/13	15:35						
4,4′-DDD	ND	150	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4′-DDE	ND	150	"	"	"	"	"	"	
4,4′-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		90 %		2-141	"	"	"	"	
37-GS-18 (CWI1129-03) Soil Sampled: 09/	/30/13 08:50 Receiv	ed: 09/30/13	15:35						
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	1000	200	"	"	"	"	"	"	
4,4′-DDD	ND	150	"	"	"	"	"	"	
4,4′-DDE	ND	150	"	"	"	"	"	"	
4,4′-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	,,	,,	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-18 (CWI1129-03) Soil Sampled: 09/3	30/13 08:50 Recei	ved: 09/30/13	15:35						
Endosulfan sulfate	ND	150	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	п	"	"	
Surrogate: Tetrachloro-meta-xylene		73 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		61 %	52	2-141	"	"	"	"	
37-GS-15-1.5' (CWI1129-04) Soil Sampled:	: 09/30/13 10:56 R	Received: 09/3	0/13 15:3	5					
Aldrin	ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	210	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-15-1.5' (CWI1129-04) Soil	Sampled: 09/30/13 10:56	Received: 09/3	0/13 15:35	5					
Mirex	ND	100	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	II .	
Surrogate: Tetrachloro-meta-xylene		80 %	46-	-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		94 %	52-	-141	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

		Reporting		Spike	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 1	10/01/13 A	nalyzed: 10	/02/13			
Aldrin	ND	1.0	μg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4′-DDD	ND	15	"							
4,4′-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Гохарhene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.25		"	8.33		75	46-139			
Surrogate: Decachlorobiphenyl	9.24		"	8.33		111	52-141			
LCS (CW06517-BS1)				Prepared: 1	10/01/13 A	nalyzed: 10	/02/13			
Aldrin	13.6	1.0	μg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4′-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	6.82		"	8.33		82	46-139			

RPD

%REC

Page 7 of 8 10/03/13 16:56

Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyta	D14	Reporting	I India	Spike	Source	0/BEC	%REC	DDD	RPD	NIo+
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Surrogate: Decachlorobiphenyl	9.03	·	μg/kg	8.33		108	52-141			
LCS Dup (CW06517-BSD1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	13.8	1.0	μg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4'-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	6.99		"	8.33		84	46-139			
Surrogate: Decachlorobiphenyl	9.01		"	8.33		108	52-141			
Matrix Spike (CW06517-MS1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.5	10	μg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4'-DDT	28.1	150	"	16.7	ND	169	41-157			QM-77
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	19.2		"	20.8		92	46-139			
Surrogate: Decachlorobiphenyl	23.5		"	20.8		113	52-141			
Matrix Spike Dup (CW06517-MSD1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.1	10	μg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4'-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-77
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	18.4		"	20.8		88	46-139			
Surrogate: Decachlorobiphenyl	24.7		"	20.8		118	52-141			

Page 8 of 8 10/03/13 16:56

Tetra Tech Geo Project: VOP - Hayward 24137 Eden

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1129

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QM-7T The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane

interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

## CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 14, 2013

CLS Work Order #: CWJ0513 COC #: 144245

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP Hayward Saklan Dig & Haul

Enclosed are the results of analyses for samples received by the laboratory on 10/10/13 14:03. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 8 10/14/13 11:59

Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

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Page 2 of 8 10/14/13 11:59

Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S19-0.5' (CWJ0513-01) Soil	Sampled: 10/10/13 09:15	Received: 10/1	0/13 14:0	)3					
Aldrin	ND	17	μg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	930	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4'-DDE	79	33	"	"	"	"	"	"	
4,4'-DDT	120	33	"	"	"	"	"	"	
Dieldrin	52	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	22	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	II .	
Surrogate: Tetrachloro-meta-xylene		58 %	40	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		77 %	52	2-141	"	"	"	"	
37-G S20-0.5' (CWJ0513-02) Soil	Sampled: 10/10/13 09:20	Received: 10/1	0/13 14:0	)3					
Aldrin	ND	17	μg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	120	33	"	"	"	"	"	"	

Page 3 of 8 10/14/13 11:59

Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S20-0.5' (CWJ0513-02) Soil	Sampled: 10/10/13 09:20	Received: 10/1	0/13 14:0	3					
4,4´-DDD	ND	33	μg/kg	10	CW06798	"	10/14/13	EPA 8081A	
4,4′-DDE	ND	33	"	"	"	"	"	"	
4,4′-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70 %	46	5-139	"	,,	"	"	
Surrogate: Decachlorobiphenyl		114 %		2-141	"	"	"	"	
37-G S21-0.5' (CWJ0513-03) Soil	Sampled: 10/10/13 09:25	Received: 10/1	0/13 14:0	3					
Aldrin	ND	17	μg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	n .	
delta-BHC	ND	17	"	"	"	"	"	n .	
Chlordane-technical	150	33	"	"	"	"	"	"	
4,4'-DDD	ND	33	"	"	"	"	"	"	
4,4'-DDE	ND	33	"	"	"	"	"	"	
4,4'-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

Page 4 of 8 10/14/13 11:59

Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

37-G S21-0.5' (CWJ0513-03) Soi Endosulfan sulfate Endrin Endrin aldehyde Heptachlor Heptachlor epoxide	ND ND ND ND ND	33 33 33 33	μg/kg						
Endrin Endrin aldehyde Heptachlor	ND ND	33		10					
Endrin aldehyde Heptachlor	ND			10	CW06798	"	10/14/13	EPA 8081A	
Heptachlor		33	"	"	"	"	"	"	
=	ND	33	"	"	"	"	"	"	
Heptachlor epoxide	1,12	17	"	"	"	"	"	"	
	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylei	пе	75 %	40	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		92 %	52	2-141	"	"	"	"	
37-G S22-0.5' (CWJ0513-04) Soi	1 Sampled: 10/10/13 09:25	Received: 10/1	0/13 14:0	13					
Aldrin	ND	17	μg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4′-DDD	ND	33	"	"	"	"	"	"	
4,4′-DDE	ND	33	"	"	"	"	"	"	
4,4′-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

#### Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S22-0.5' (CWJ0513-04) Soil	Sampled: 10/10/13 09:25	Received: 10/1	0/13 14:0	3					
Mirex	ND	33	μg/kg	10	CW06798	"	10/14/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		77 %	46	-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		93 %	52	-141	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

Page 6 of 8 10/14/13 11:59

Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06798 - LUFT-DHS GCNV										
Blank (CW06798-BLK1)				Prepared: 1	10/11/13 A	nalyzed: 10	/14/13			
Aldrin	ND	1.7	μg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
lelta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
,4′-DDD	ND	3.3	"							
4,4′-DDE	ND	3.3	"							
1,4′-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Гохарhene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	5.72		"	8.33		69	46-139			
Surrogate: Decachlorobiphenyl	9.53		"	8.33		114	52-141			
LCS (CW06798-BS1)				Prepared:	10/11/13 A	nalyzed: 10	/14/13			
Aldrin	13.4	1.7	μg/kg	16.7		80	47-132			
gamma-BHC (Lindane)	13.3	1.7	"	16.7		80	56-133			
4,4′-DDT	14.8	3.3	"	16.7		89	46-137			
Dieldrin	14.4	3.0	"	16.7		87	44-143			
Endrin	11.8	3.3	"	16.7		71	30-147			
Heptachlor	12.7	1.7	"	16.7		76	33-148			
Surrogate: Tetrachloro-meta-xylene	6.78		"	8.33		81	46-139			

%REC

RPD

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Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06798 - LUFT-DHS GCNV										
LCS (CW06798-BS1)				Prepared: 1	10/11/13 A	nalyzed: 10	/14/13			
Surrogate: Decachlorobiphenyl	9.29		μg/kg	8.33		111	52-141			
LCS Dup (CW06798-BSD1)				Prepared: 1	10/11/13 A	nalyzed: 10	/14/13			
Aldrin	13.8	1.7	μg/kg	16.7		83	47-132	3	30	
gamma-BHC (Lindane)	13.1	1.7	"	16.7		79	56-133	2	30	
4,4′-DDT	14.8	3.3	"	16.7		89	46-137	0.1	30	
Dieldrin	15.0	3.0	"	16.7		90	44-143	4	30	
Endrin	12.6	3.3	"	16.7		76	30-147	7	30	
Heptachlor	13.2	1.7	"	16.7		79	33-148	4	30	
Surrogate: Tetrachloro-meta-xylene	6.86		"	8.33		82	46-139			
Surrogate: Decachlorobiphenyl	9.41		"	8.33		113	52-141			
Matrix Spike (CW06798-MS1)	Sou	rce: CWJ0513	3-04	Prepared: 1	10/11/13 A	nalyzed: 10	/14/13			
Aldrin	15.2	17	μg/kg	16.7	ND	91	47-138			
gamma-BHC (Lindane)	15.0	17	"	16.7	ND	90	38-144			
4,4′-DDT	14.4	33	"	16.7	ND	87	41-157			
Dieldrin	16.4	30	"	16.7	ND	99	46-155			
Endrin	14.1	33	"	16.7	ND	85	34-149			
Heptachlor	15.6	17	"	16.7	ND	93	36-155			
Surrogate: Tetrachloro-meta-xylene	15.7		"	20.8		76	46-139			
Surrogate: Decachlorobiphenyl	19.9		"	20.8		96	52-141			
Matrix Spike Dup (CW06798-MSD1)	Sou	rce: CWJ0513	3-04	Prepared: 1	10/11/13 A	nalyzed: 10	/14/13			
Aldrin	15.6	17	μg/kg	16.7	ND	93	47-138	2	35	
gamma-BHC (Lindane)	15.2	17	"	16.7	ND	91	38-144	2	35	
4,4´-DDT	14.8	33	"	16.7	ND	89	41-157	3	35	
Dieldrin	16.7	30	"	16.7	ND	100	46-155	2	35	
Endrin	14.3	33	"	16.7	ND	86	34-149	2	35	
Heptachlor	15.8	17	"	16.7	ND	95	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	16.3		"	20.8		78	46-139			
Surrogate: Decachlorobiphenyl	21.2		"	20.8		102	52-141			

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Tetra Tech Geo Project: VOP Hayward Saklan Dig & Haul

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWJ0513

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: 144245

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233



3249 Fitzgerald Road Rancho Cordova, CA 95742

September 03, 2013

CLS Work Order #: CWH1094 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 16:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 48 09/03/13 09:53

Tetra Tech Geo Project: 23836 Saklan
2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094
Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

-		REPORT TO:		CLIE	NT JOB NU	MBER		A	NAL	/SIS	REG	UESTED	GE	OTF	RAC	KER	R:	
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		ct Park Drive			ATION LABO		70							OB/				
Rancl	ho Cord	lova, CA	COLUMN A	3249	6 (916) 6	38-7301 D FID. DVA, CA	RE						COM	POSITE				
PROJECT NAM	Tim	Costello (	916)853-1800	RAN	CHO CORDO	95742	SEF	81A										
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	0854			Soil	1	Glass Jar Glass	1	×	X						X			
	0903	SW-3		Soil	1	Jar		X	X						*			
	0905	F-1		Soil	1	Glass		X	X						*			
	0910 SW-4				1	Glass Jar Glass	1	X	X						X			
		SW-5	V-5 Soil 1					X	X						+			
	0915	SW-6		Soil	1	Glass		X	X						*	-		
	0925	F-2		Soil	1	Glass		X	X						X		INVOICE TO	
1	0947	SW-7		Soil	1	Glass		X							4			
	0951			Soil	1	Glass		X	X					-	X			
	0953	SW-9		Soil	1	Glass Jar Glass	11	X	X					-	*	-	PO.#	
		SW-10	The state of the s	Soil	1	Jar Glass	1	X	X					-	7	1	QUOTE #	
1	0948			Soil	1	Jar	V	X	SERVA	TIVES		(1) HGL	-	(3) = COt	10	1	(5) = H <sub>2</sub> SO <sub>4</sub> (6) = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	(2) ~
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Page 2 of 48 09/03/13 09:53

Tetra Tech Geo Project: 23836 Saklan
2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094
Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

		REPORT TO:		CLIE	NT JOB NU	MBER	İ	A	NAL	YSIS	REQ	UES	TED	SE	OT	PAC	CKE	p.	
NAME AND ADD	oness Tet	ra Tech GEO		117-7	70590	10.01						T						YES	X N
		ct Park Drive		DESTIN	ATION LABO	PRATORY					4					ALI		LITES	52) 14
Ranc	ho Cord	lova, CA		X CLS	(916) 6	38-7301 D RD	PR				108	5					U: _		
PROJECT MAN	AGER Tim	Costello (916	5)853-1800	RANK	CHO CORDO	D HD. DVA, CA. 95742	ESE	(A)			7	156	0	COM	POSITI				
PROJECT NAM	E 283	86 Satlan				30145	R	308	(2)		3	3	092	CICL P	CON	DITION			
SAMPLED BY	Garrett	Kuhl		ОТІ	HER		ESERVATIVES	PA	3082		on		90	FIELE	CONI	JI I I ON			
JOB DESCRIPT	xcava H	0-					IVE	S (E	A &	1	6		à	MI 180			*****	COFOLIN INV	TOUGTIONS
DATE LOSS AND							S	ides	E (E	4	2		×	10,000,000		DUND		SPECIAL INS	
arie LOCATIO	Z8386	Saklan RA SAMI	Mayward		CONT	AINER	1	Pesticides (EPA 8081A)	PCB's (EPA 8082)	- HM 17	TPHa, 9, MO by 8015M		BrE.	- DAY	PAY DA	5 DAY	10 DAY	OH	
DATE	THVIE	IDENTIFICA	TION	MATRIX	NO.	TYPE	1/		-	U	7		2		,	-		ALT.	ID:
8/28/13	0955	F-4		Soil	1	Jar	3	X	X						1				
	1008	SW-11		Soil	1	Glass Jar Glass		X											
	1010	SW-12		Soil	1	Jar		X											
	1012	SW-13		Soil	1	Glass Jar Glass		X											
	1015	F-5		Soil	1	Jar		X											
	1013 SW-14			Soil	1	Glass Jar Glass		X											
	1023	SW-15		Soil	1	Jar	1	X											
	1021	SW-16		Soil	1	Glass		X											
	1031	F-6		Soil	1	Glass	V	X										INVOICE TO	
	0842			Soil	2		11	X	X	X	*		*						
		Pile Z		1	2			X	1	X	X		X						
		Pile 3-1			2			+	4	*	X		X					PO #	
V		Pile 3-2		1	2	1		×	+	X	×		+		V			QUOTE#	
SUSPECTED C	CONSTITUENT						Г	PRE	SERVA	IVES:		(1) HC (2) HN	L IO,		3) = 00 4) = Nat	LD		$(5) = H_2SO_4$ $(6) = Na_2S_2O_3$	(7) =
RE	LINQUISH	ED BY (SIGN)	PRINT N	AME / CON	//PANY		DAT	E/TI	ME			RE	CEIVED	BY (SI	iN)			PRINT NAME / C	OMPANY
hear	are hit		Keith McCo	Lyc 1	etrate	ech 81	28/	13	163	0									43
REC'D AT LAB	ECO AT LAB BY.			DATE / 1	TIME O	128/15		1	63	0				constro	/S / CO	MENTS			

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project Number: 23836 Saklan Project Number: 117-7059010.01 Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

#### **CAM 17 Metals**

Sampled: 08/28/13 08:42   Received: 08/28/13 16:30   Received: 08/28/13 1	llyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ND   2.5   "	1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
ND	enic	3.4	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Intimony ND 2.5 " 1 CW05670 08/29/13 08/29/13 EPA 6010B arium 190 1.0 " " " " " " " " " " " " " " " " " " "	nium	ND	2.5	"	"	"	"	"	"	
190   1.0	llium	ND	1.0	"	"	"	"	"	"	
Service   Serv	imony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
ND	ium	190	1.0	"	"	"	"	"	"	
cobalt         11         1.0         "	yllium	0.53	0.50	"	"	"	"	"	"	
Chromium         64         1.0         " <th< th=""><th>mium</th><th>ND</th><th>0.50</th><th>"</th><th>"</th><th>"</th><th>"</th><th>"</th><th>"</th><th></th></th<>	mium	ND	0.50	"	"	"	"	"	"	
Copper         26         1.0         "	alt	11	1.0	"	"	"	"	"	"	
ead         18         2.5         " <th>omium</th> <th>64</th> <th>1.0</th> <th>"</th> <th>"</th> <th>"</th> <th>"</th> <th>"</th> <th>"</th> <th></th>	omium	64	1.0	"	"	"	"	"	"	
Molybdenum         ND         1.0         "         <	per	26	1.0	"	"	"	"	"	"	
dickel         46         1.0         "	d	18	2.5	"	"	"	"	"	"	
ilver ND 0.50 " " " " " " " " " " " " " " " " " " "	ybdenum	ND	1.0	"	"	"	"	"	"	
Yanadium       45       1.0       " <th< th=""><th>kel</th><th>46</th><th>1.0</th><th>"</th><th>"</th><th>"</th><th>"</th><th>"</th><th>"</th><th></th></th<>	kel	46	1.0	"	"	"	"	"	"	
inc 81 1.0 " " " " " " " " " " " " " " " " " " "	er	ND	0.50	"	"	"	"	"	"	
Mercury ND 0.10 " " CW05713 08/30/13 08/30/13 EPA 7471A ile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30	adium	45	1.0	"	"	"	"	"	"	
ile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30	e	81	1.0	"	"	"	"	"	"	
	cury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	
rsenic 3.8 1.0 mg/kg 10 CW05668 09/20/13 08/29/13 FPA 6020/7000	2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
1.0 mg/kg 10 C 1105000 00/29/15 00/29/15 E1A 00/20/1000	enic	3.8	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
elenium ND 2.5 " " " " " "	nium	ND	2.5	"	"	"	"	"	"	
hallium ND 1.0 " " " " " "	llium	ND	1.0	"	"	"	"	"	"	
ntimony ND 2.5 " 1 CW05670 08/29/13 08/29/13 EPA 6010B	imony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
arium 160 1.0 " " " " " "	ium	160	1.0	"	"	"	"	"	"	
eryllium ND 0.50 " " " " " "	yllium	ND	0.50	"	"	"	"	"	"	
<b>'admium 0.52</b> 0.50 " " " " " "	lmium	0.52	0.50	"	"	"	"	"	"	
Cobalt 1.0 " " " " " " "	alt	10	1.0	"	"	"	"	"	"	
Chromium 61 1.0 " " " " " " "	omium	61	1.0	"	"	"	"	"	"	
Copper 28 1.0 " " " " " " "	per	28	1.0	"	"	"	"	"	"	
ead 44 2.5 " " " " " "	d	44	2.5	"	"	"	"	"	"	
ND 1.0 " " " " "	ybdenum	ND	1.0	"	"	"	"	"	"	

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

#### **CAM 17 Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
Nickel	41	1.0	mg/kg	1	CW05670	"	08/29/13	EPA 6010B	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	44	1.0	"	"	"	"	"	"	
Zinc	100	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	
Pile 3-1 (CWH1094-25) Soil	Sampled: 08/28/13 08:18	Received:	08/28/13	16:30					
Arsenic	3.4	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	160	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	0.63	0.50	"	"	"	"	"	"	
Cobalt	9.5	1.0	"	"	"	"	"	"	
Chromium	58	1.0	"	"	"	"	"	"	
Copper	27	1.0	"	"	"	"	"	"	
Lead	30	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	38	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	42	1.0	"	"	"	"	"	"	
Zinc	110	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

#### **CAM 17 Metals**

Analyte	Result	Reporting Limit	Units	Dilution	Batch l	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil	Sampled: 08/28/13 08:21	Received:	08/28/13	16:30					
Arsenic	3.5	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	0.60	0.50	"	"	"	"	"	"	
Cobalt	9.7	1.0	"	"	"	"	"	"	
Chromium	72	1.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	23	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	40	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	43	1.0	"	"	"	"	"	"	
Zinc	100	1.0	"	"	"	"	"	"	
Mercury	0.14	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Extractable Petroleum Hydrocarbons by EPA Method 8015M**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil	(CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30								
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	23	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	65	5-135	"	"	"	n	
Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08/28/13 16:30						EXT-3	
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	26	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		99 %	65	5-135	"	"	"	"	
Pile 3-1 (CWH1094-25) Soil	Sampled: 08/28/13 08:18	Received:	08/28/13	16:30					EXT-3
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	39	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		103 %	65-135		"	"	"	"	
Pile 3-2 (CWH1094-26) Soil	Sampled: 08/28/13 08:21	Received:	08/28/13	16:30					EXT-3
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	29	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		110 %	65	5-135	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094 Rancho Cordova, CA 95670

Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (CWH1094-01) Soil	Sampled: 08/28/13 08:52	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	96	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4'-DDE	140	33	"	"	"	"	"	"	
4,4'-DDT	69	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-	xylene	82 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphen	yl	86 %	52	2-141	"	"	"	"	
SW-2 (CWH1094-02) Soil	Sampled: 08/28/13 08:54	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	18	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-2 (CWH1094-02) Soil	Sampled: 08/28/13 08:54	Received: 08	/28/13 1	6:30					
4,4´-DDD	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4'-DDE	550	83	"	25	"	"	"	"	
4,4'-DDT	270	33	"	10	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	ı-xvlene	98 %	40	5-139	,,	"	"	"	
Surrogate: Decachlorobiphe	· ·	98 %		2-141	"	"	"	"	
SW-3 (CWH1094-03) Soil	Sampled: 08/28/13 09:03	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4'-DDE	65	33	"	"	"	"	"	"	
4,4'-DDT	43	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-3 (CWH1094-03) Soil	Sampled: 08/28/13 09:03	Received: 08	/28/13 1	6:30					
Endosulfan sulfate	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-	xylene	84 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphen	ıyl	95 %	52	2-141	"	"	"	"	
F-1 (CWH1094-04) Soil Sa	ampled: 08/28/13 09:05 R	teceived: 08/28	3/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
F-1 (CWH1094-04) Soil Sampled: 08/28	/13 09:05 Re	eceived: 08/28	8/13 16:3	0					
Mirex	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		100 %	46-	139	"	"	"	"	
Surrogate: Decachlorobiphenyl		100 %	52-	141	"	"	"	"	
SW-4 (CWH1094-05) Soil Sampled: 08/	28/13 09:10	Received: 08	/28/13 16	:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	190	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	470	66	"	20	"	"	"	"	
4,4´-DDT	350	33	"	10	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		100 %	46-	139	"	"	"	"	
Surrogate: Decachlorobiphenyl		120 %	52-	141	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 (CWH1094-06) Soil Sampled: 08/28/	13 09:20	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	400	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	400	66	"	20	"	"	"	"	
4,4´-DDT	360	66	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	п	"	"	"	
Surrogate: Tetrachloro-meta-xylene		91 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		111 %	52	2-141	"	"	"	"	
SW-6 (CWH1094-07) Soil Sampled: 08/28/	13 09:15	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	100	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-6 (CWH1094-07) Soil Sa	mpled: 08/28/13 09:15	Received: 08	/28/13 1	6:30					
4,4´-DDD	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	33	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xyl	lene	71 %	40	5-139	,,	"	"	"	
Surrogate: Decachlorobiphenyl		67 %		2-141	"	"	"	"	
F-2 (CWH1094-08) Soil Sam	pled: 08/28/13 09:25 R	eceived: 08/2	8/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	54	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	65	33	"	"	"	"	"	"	
4,4´-DDT	41	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-2 (CWH1094-08) Soil	Sampled: 08/28/13 09:25 R	Received: 08/28	8/13 16:	30					
Endosulfan sulfate	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-m	eta-xylene	81 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobip	•	73 %	52	2-141	"	"	"	"	
SW-7 (CWH1094-09) So	il Sampled: 08/28/13 09:47	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	440	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	310	33	"	"	"	"	"	"	
4,4´-DDT	330	66	"	20	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
SW-7 (CWH1094-09) Soil	Sampled: 08/28/13 09:47	Received: 08	/28/13 10	6:30					
Mirex	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	-xylene	89 %	46	-139	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	125 %	52	-141	"	"	"	"	
SW-8 (CWH1094-10) Soil	Sampled: 08/28/13 09:51	Received: 08	/28/13 10	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	170	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	560	66	"	20	"	"	"	"	
4,4´-DDT	330	66	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	-xylene	88 %	46	-139	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	88 %	52	-141	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-9 (CWH1094-11) Soil Sampled	d: 08/28/13 09:53	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	340	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	26	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	150	66	"	20	"	"	"	"	
4,4´-DDE	1300	170	"	50	"	"	"	"	
4,4´-DDT	960	170	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		92 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		91 %	52	2-141	"	"	"	"	
SW-10 (CWH1094-12) Soil Sample	ed: 08/28/13 09:58	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	_
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	190	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-10 (CWH1094-12) Soil	Sampled: 08/28/13 09:58	Received: 0	8/28/13	16:30					
4,4′-DDD	40	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	980	130	"	40	"	"	"	"	
4,4´-DDT	720	130	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	п	
Surrogate: Tetrachloro-meta-x	vlene	91 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobipheny		92 %		2-141	"	"	"	"	
F-3 (CWH1094-13) Soil Sar		ceived: 08/28	8/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05677	7 08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	n .	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	n .	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4′-DDE	55	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	n .	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-3 (CWH1094-13) Soil Sampled: 08	3/28/13 09:48 Re	eceived: 08/28	8/13 16:	30					
Endosulfan sulfate	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		84 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		85 %	52	2-141	"	"	"	"	
F-4 (CWH1094-14) Soil Sampled: 08	3/28/13 09:55 Re	eceived: 08/28	8/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	73	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33		"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
F-4 (CWH1094-14) Soil Sampled: 08/2	28/13 09:55 Re	ceived: 08/28	8/13 16:3	0					
Mirex	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		87 %	46-	139	"	"	"	"	
Surrogate: Decachlorobiphenyl		81 %	52-	141	"	"	"	"	
SW-11 (CWH1094-15) Soil Sampled:	08/28/13 10:08	Received: 0	8/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	33	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		92 %	46-	139	"	"	"	"	
Surrogate: Decachlorobiphenyl		93 %	52-	141	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-12 (CWH1094-16) Soil Sar	mpled: 08/28/13 10:10	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	25	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	82	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	<i>ne</i>	93 %	46	ó- <i>139</i>	"	"	"	"	
Surrogate: Decachlorobiphenyl		120 %	52	2-141	"	"	"	"	
SW-13 (CWH1094-17) Soil Sar	mpled: 08/28/13 10:12	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-13 (CWH1094-17) Soil	Sampled: 08/28/13 10:12	Received: 0	8/28/13	16:30					
4,4´-DDD	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4'-DDE	110	33	"	"	"	"	"	"	
4,4´-DDT	56	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	п	
Surrogate: Tetrachloro-meta-x	vlene	96 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobipheny	•	97 %		2-141	"	"	"	"	
F-5 (CWH1094-18) Soil San	mpled: 08/28/13 10:15 Re	eceived: 08/28	8/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-5 (CWH1094-18) Soil	Sampled: 08/28/13 10:15 R	Received: 08/2	8/13 16:	30					
Endosulfan sulfate	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-me	eta-xylene	89 %	40	5-139	"	"	"	"	
Surrogate: Decachlorobipi	henyl	117 %	52	2-141	"	"	"	"	
SW-14 (CWH1094-19) So	oil Sampled: 08/28/13 10:29	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	28	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	190	33	"	"	"	"	"	"	
4,4´-DDT	100	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-14 (CWH1094-19) Soil	Sampled: 08/28/13 10:29	Received: 0	8/28/13	16:30					
Mirex	ND	33	μg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	xylene	93 %	46	5-139	,,	"	"	"	
Surrogate: Decachlorobiphen	nyl .	101 %	52	2-141	"	"	"	"	
SW-15 (CWH1094-20) Soil	Sampled: 08/28/13 10:23	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	83	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	190	33	"	"	"	"	"	"	
4,4´-DDT	50	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	xylene	95 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphen	yl	214 %	52	2-141	"	"	"	"	QS-4

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-16 (CWH1094-21) Soil Sa	ampled: 08/28/13 10:21	Received: 0	8/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4′-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xyl	ene	90 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		85 %	52	2-141	"	"	"	"	
F-6 (CWH1094-22) Soil Samp	pled: 08/28/13 10:31 Re	eceived: 08/28	8/13 16:	30					
Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch 1	Prepared	Analyzed	Method	Notes
F-6 (CWH1094-22) Soil S	Sampled: 08/28/13 10:31 I	Received: 08/28	8/13 16:	30					
4,4´-DDD	ND	33	μg/kg	10	CW05678	"	09/02/13	EPA 8081A	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta	a-xylene	92 %	40	5-139	"	,,	"	"	
Surrogate: Decachlorobiphe	•	81 %	52	2-141	"	"	"	"	
Pile 1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	99	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	230	33	"	"	"	"	"	"	
4,4´-DDT	180	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Endosulfan sulfate	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Endrin         ND         33         "<	Pile 1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Part   Part	Endosulfan sulfate	ND	33	μg/kg	10	CW05678	"	09/02/13	EPA 8081A	
Helpitachlor ND 17 " " " " " " " " " " " " " " " " Heptachlor epoxide ND 17 " " " " " " " " " " " " " " " " " "	Endrin	ND	33	"	"	"	"	"	"	
Heptachlor epoxide	Endrin aldehyde	ND	33	"	"	"	"	"	"	
Methoxychlor         ND         170         "	Heptachlor	ND	17	••	"	"	"	"	"	
Mirex         ND         33         "	Heptachlor epoxide	ND	17	••	"	"	"	"	"	
ND   200   "   "   "   "   "   "   "   "   "	Methoxychlor	ND	170	••	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene         81 %         46-139         "         "         "         "           Surrogate: Decachlorobiphenyl         86 %         52-141         "         "         "         "           Pile 2 (CWH1094-24) Soil         Sampled: 08/28/13 07:53         Received: 08/28/13 16:30           Aldrin         ND         17         µg/kg         10         CW05678         08/29/13         09/02/13         EPA 8081A           alpha-BHC         ND         17         "         "         "         "         "         "           beta-BHC         48         17         "         <	Mirex	ND	33	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl         86 %         52-141         "         "         "         "           Pile 2 (CWH1094-24) Soil         Sampled: 08/28/13 07:53         Received: 08/28/13 16:30           Aldrin         ND         17         µg/kg         10         CW05678         08/29/13         09/02/13         EPA 8081A           alpha-BHC         ND         17         "	Toxaphene	ND	200	"	"	"	"	"	"	
Pile 2 (CWH1094-24) Soil         Sampled: 08/28/13 07:53         Received: 08/28/13 16:30           Aldrin         ND         17         μg/kg         10         CW05678         08/29/13         09/02/13         EPA 8081A           alpha-BHC         ND         17         "	Surrogate: Tetrachloro-mete	a-xylene	81 %	46	5-139	"	"	"	"	
Aldrin ND 17 µg/kg 10 CW05678 08/29/13 09/02/13 EPA 8081A alpha-BHC ND 17 " " " " " " " " " " " " " " " " " "	Surrogate: Decachlorobiphe	enyl	86 %	52	2-141	"	"	"	"	
alpha-BHC         ND         17         " <th< td=""><td>Pile 2 (CWH1094-24) Soil</td><td>Sampled: 08/28/13 07:53</td><td>Received: 08</td><td>/28/13 1</td><td>.6:30</td><td></td><td></td><td></td><td></td><td></td></th<>	Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	.6:30					
beta-BHC         48         17         "	Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
gamma-BHC (Lindane) delta-BHC ND 17 " " " " " " " " " " " " " " " " " "	alpha-BHC	ND	17	"	"	"	"	"	"	
delta-BHC (Enidane)  MD 17 " " " " " " " " " " " " " " " " " "	beta-BHC	48	17	"	"	"	"	"	"	
Chlordane-technical       ND       33       "	gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
4,4'-DDD	delta-BHC	ND	17	"	"	"	"	"	"	
4,4'-DDE       140       33       " <th< td=""><td>Chlordane-technical</td><td>ND</td><td>33</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></th<>	Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4'-DDT       44       33       "	4,4´-DDD	ND	33	"	"	"	"	"	"	
Dieldrin         ND         30         "	4,4´-DDE	140	33	"	"	"	"	"	"	
Endosulfan I         ND         17         "	4,4'-DDT	44	33	"	"	"	"	"	"	
Endosulfan II         ND         33         "	Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan sulfate         ND         33         "	Endosulfan I	ND	17	"	"	"	"	"	"	
Endrin         ND         33         "<	Endosulfan II	ND	33	"	"	"	"	"	"	
Endrin aldehyde ND 33 " " " " " " " " " " " " " " " " " "	Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Heptachlor ND 17 " " " " " " " " Heptachlor epoxide ND 17 " " " " " " " " " " " " " " " " " "	Endrin	ND	33	"	"	"	"	"	"	
Heptachlor epoxide ND 17 " " " " " "	Endrin aldehyde	ND	33	"	"	"	"	"	"	
	Heptachlor	ND	17	"	"	"	"	"	"	
Methoxychlor ND 170 " " " " " " "	Heptachlor epoxide	ND	17	"	"	"	"	"	"	
	Methoxychlor	ND	170	"	"	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch 1	Prepared	Analyzed	Method	Notes
Pile 2 (CWH1094-24) Soil Sample	ed: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
Mirex	ND	33	μg/kg	10	CW05678	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		83 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		89 %	52	2-141	"	"	"	"	
Pile 3-1 (CWH1094-25) Soil Samp	oled: 08/28/13 08:18	Received:	08/28/13	16:30					
Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	43	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	120	33	"	"	"	"	"	"	
4,4´-DDT	81	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		88 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		92 %	52	-141	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil	Sampled: 08/28/13 08:21	Received:	08/28/13	3 16:30					
Aldrin	ND	17	μg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	110	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4′-DDD	ND	33	"	"	"	"	"	"	
4,4'-DDE	260	33	"	"	"	"	"	"	
4,4'-DDT	200	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	II .	"	"	
Surrogate: Tetrachloro-meta-x	rylene	78 %	40	5-139	"	"	"	"	
Surrogate: Decachlorobipheny	l	75 %	52	2-141	"	"	"	"	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (CWH1094-01) Soil	Sampled: 08/28/13 08:52	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	n n	
Surrogate: Decachlorobiphe	nyl	53 %	50	0-150	"	"	"	"	
SW-2 (CWH1094-02) Soil	Sampled: 08/28/13 08:54	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	65 %	50	0-150	"	"	"	"	
SW-3 (CWH1094-03) Soil	Sampled: 08/28/13 09:03	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
SW-3 (CWH1094-03) Soil San	mpled: 08/28/13 09:03	Received: 08	/28/13 1	6:30					
Aroclor 1268	ND	20	μg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobiphenyl		58 %	50	0-150	"	"	"	"	
F-1 (CWH1094-04) Soil Samp	led: 08/28/13 09:05 R	eceived: 08/2	8/13 16:	30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		57 %	50	0-150	"	"	"	"	
SW-4 (CWH1094-05) Soil San	mpled: 08/28/13 09:10	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		60 %	50	0-150	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 (CWH1094-06) Soil	Sampled: 08/28/13 09:20	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	50 %	50	0-150	"	"	"	"	
SW-6 (CWH1094-07) Soil	Sampled: 08/28/13 09:15	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	15 %	50	0-150	"	"	"	"	QS-
F-2 (CWH1094-08) Soil S	ampled: 08/28/13 09:25 R	eceived: 08/2	8/13 16:	30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
F-2 (CWH1094-08) Soil S	Sampled: 08/28/13 09:25 R	Received: 08/28	8/13 16:	30					
Aroclor 1268	ND	20	μg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobiphe	nyl	51 %	50	0-150	"	"	"	"	
SW-8 (CWH1094-10) Soil	Sampled: 08/28/13 09:51	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	56 %	50	0-150	"	"	"	"	
SW-9 (CWH1094-11) Soil	Sampled: 08/28/13 09:53	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphe	nyl	56 %	50	0-150	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-10 (CWH1094-12) Soil	Sampled: 08/28/13 09:58	Received: 0	8/28/13	16:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobipheny	vl	57 %	50	0-150	"	"	"	"	
F-4 (CWH1094-14) Soil Sai	mpled: 08/28/13 09:55 Re	ceived: 08/2	8/13 16:	30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobipheny	vl	9 %	50	0-150	"	"	"	"	QS-
Pile 1 (CWH1094-23) Soil 5	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch 1	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Aroclor 1268	ND	20	μg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobipher	nyl	58 %	50	0-150	"	"	"	"	
Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobipher	nyl	56 %	50	0-150	"	"	"	"	
Pile 3-1 (CWH1094-25) Soil	Sampled: 08/28/13 08:18	Received:	08/28/13	16:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphei	nyl	56 %	50	)-150	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil	Sampled: 08/28/13 08:21	Received:	08/28/13	3 16:30					
Aroclor 1016	ND	20	μg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphen	vl	37 %	50	0-150	"	"	"	"	QS-4

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project Number: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

### **TPH-Gasoline by GC/MS**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		84 %	65	5-135	"	"	"	"	
Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		84 %	65	5-135	"	"	"	"	
Pile 3-1 (CWH1094-25) Soi	il Sampled: 08/28/13 08:18	Received:	08/28/13	3 16:30					
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		90 %	65	5-135	"	"	"	"	
Pile 3-2 (CWH1094-26) Soi	il Sampled: 08/28/13 08:21	Received:	08/28/13	3 16:30					
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	•
Surrogate: Toluene-d8		90 %	65	5-135	"	"	"	"	

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil	Sampled: 08/28/13 08:42	Received: 08	/28/13 1	6:30					
Benzene	ND	5.0	μg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		84 %	60	0-140	"	"	"	"	
Pile 2 (CWH1094-24) Soil	Sampled: 08/28/13 07:53	Received: 08	/28/13 1	6:30					
Benzene	ND	5.0	μg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		84 %	60	0-140	"	"	"	"	
Pile 3-1 (CWH1094-25) Soil	Sampled: 08/28/13 08:18	Received:	08/28/13	3 16:30					
Benzene	ND	5.0	μg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		90 %	60	0-140	"	"	"	"	
Pile 3-2 (CWH1094-26) Soil	Sampled: 08/28/13 08:21	Received:	08/28/13	3 16:30					
Benzene	ND	5.0	μg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		90 %	60	0-140	"	,,	"	"	

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CLS Work Order #: CWH1094

COC #:

#### **CAM 17 Metals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05668 - EPA 3050B									·	
Blank (CW05668-BLK1)				Prepared	& Analyz	ed: 08/29/	13			
Arsenic	ND	0.10	mg/kg	- repared	1 2					
Selenium	ND	0.25	"							
Thallium	ND	0.10	"							
LCS (CW05668-BS1)				Prepared	& Analyz	ed: 08/29/	13			
Arsenic	4.23	0.10	mg/kg	5.00		85	75-125			
Selenium	3.82	0.25	"	5.00		76	75-125			
Thallium	5.30	0.10	"	5.00		106	75-125			
Matrix Spike (CW05668-MS1)	So	urce: CWH1	008-05	Prepared	& Analyz	ed: 08/29/	13			
Arsenic	7.14	1.0	mg/kg	5.00	2.54	92	75-125			
Selenium	3.67	2.5	"	5.00	ND	73	75-125			QM-
Thallium	5.71	1.0	"	5.00	0.110	112	75-125			
Matrix Spike Dup (CW05668-MSD1)	So	urce: CWH1	008-05	Prepared	& Analyz	ed: 08/29/	13			
Arsenic	6.69	1.0	mg/kg	5.00	2.54	83	75-125	7	30	
Selenium	3.52	2.5	"	5.00	ND	70	75-125	4	30	QM-
Thallium	5.42	1.0	"	5.00	0.110	106	75-125	5	30	
Batch CW05670 - EPA 3050B										
Blank (CW05670-BLK1)				Prepared	& Analyz	ed: 08/29/	13			
Antimony	ND	2.5	mg/kg							
Barium	ND	1.0	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	ND	1.0	"							
Lead	ND	2.5	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	0.50	"							

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Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

#### **CAM 17 Metals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05670 - EPA 3050B										
Blank (CW05670-BLK1)				Prepared	& Analyz	ed: 08/29/	13			
Vanadium	ND	1.0	mg/kg							
Zinc	ND	1.0	"							
LCS (CW05670-BS1)				Prepared	& Analyz	ed: 08/29/	13			
Antimony	26.2	2.5	mg/kg	25.0		105	75-125			
Barium	25.6	1.0	"	25.0		102	75-125			
Beryllium	27.5	0.50	"	25.0		110	75-125			
Cadmium	25.9	0.50	"	25.0		104	75-125			
Cobalt	28.2	1.0	"	25.0		113	75-125			
Chromium	29.9	1.0	"	25.0		120	75-125			
Copper	25.3	1.0	"	25.0		101	75-125			
Lead	26.0	2.5	"	25.0		104	75-125			
Molybdenum	27.4	1.0	"	25.0		110	75-125			
Nickel	27.8	1.0	"	25.0		111	75-125			
Silver	26.3	0.50	"	25.0		105	75-125			
Vanadium	13.6	1.0	"	12.5		109	75-125			
Zinc	27.0	1.0	"	25.0		108	75-125			
Matrix Spike (CW05670-MS1)	So	urce: CWH1	008-05	Prepared	& Analyze	ed: 08/29/	13			
Antimony	12.0	2.5	mg/kg	25.0	ND	48	75-125			QM-5
Barium	160	1.0	"	25.0	121	153	75-125			QM-4X
Beryllium	26.2	0.50	"	25.0	0.346	104	75-125			
Cadmium	24.7	0.50	"	25.0	ND	99	75-125			
Cobalt	33.3	1.0	"	25.0	7.77	102	75-125			
Chromium	51.3	1.0	"	25.0	22.8	114	75-125			
Copper	42.4	1.0	"	25.0	17.1	101	75-125			
Lead	30.3	2.5	"	25.0	9.62	83	75-125			
Molybdenum	24.4	1.0	"	25.0	0.940	94	75-125			
Nickel	45.6	1.0	"	25.0	20.3	101	75-125			
Silver	24.3	0.50	"	25.0	0.235	96	75-125			
Vanadium	56.1	1.0	"	12.5	41.1	120	75-125			
Zinc	57.0	1.0	"	25.0	29.1	112	75-125			

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

### **CAM 17 Metals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05670 - EPA 3050B		•							<u> </u>	
Matrix Spike Dup (CW05670-MSD1)	Sor	ırce: CWH1	008-05	Prepared	& Analyze	ad: 08/20/	13			
Antimony	9.30	2.5	mg/kg	25.0	ND	37	75-125	25	30	QM-5
Barium	169	1.0	mg/kg	25.0	121	189	75-125	5	30	OM-4X
Beryllium	26.2	0.50	"	25.0	0.346	103	75-125	0.1	30	Q111 12
Cadmium	25.0	0.50	"	25.0	ND	100	75-125	1	30	
Cobalt	34.5	1.0	"	25.0	7.77	107	75-125	4	30	
Chromium	53.5	1.0	"	25.0	22.8	123	75-125	4	30	
Copper	42.9	1.0	"	25.0	17.1	103	75-125	1	30	
Lead	32.8	2.5	"	25.0	9.62	93	75-125	8	30	
Molybdenum	23.7	1.0	"	25.0	0.940	91	75-125	3	30	
Nickel	47.8	1.0	"	25.0	20.3	110	75-125	5	30	
Silver	24.8	0.50	"	25.0	0.235	98	75-125	2	30	
Vanadium	59.1	1.0	"	12.5	41.1	144	75-125	5	30	OM-5
Zinc	59.6	1.0	"	25.0	29.1	122	75-125	4	30	
Batch CW05713 - EPA 7471A										
Blank (CW05713-BLK1)				Prepared	& Analyze	ed: 08/30/	13			
Mercury	ND	0.10	mg/kg	•						
LCS (CW05713-BS1)				Prepared	& Analyz	ed: 08/30/	13			
Mercury	0.247	0.10	mg/kg	0.250		99	75-125			
Matrix Spike (CW05713-MS1)	Soi	arce: CWH1	008-05	Prepared	& Analyze	ed: 08/30/	13			
Mercury	0.250	0.10	mg/kg	0.250	ND	100	75-125			
Matrix Spike Dup (CW05713-MSD1)	Sor	arce: CWH1	008-05	Prepared	& Analyze	ed: 08/30/	13			
Mercury	0.271	0.10	mg/kg	0.250	ND	108	75-125	8	25	

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05646 - CA LUFT - orb sha	aker									
Blank (CW05646-BLK1)				Prepared:	08/28/13	Analyzed	1: 08/29/13			
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: o-Terphenyl	0.655		"	0.500		131	65-135			
LCS (CW05646-BS1)				Prepared:	08/28/13	Analyzed	1: 08/29/13			
Diesel	54.8	1.0	mg/kg	50.0		110	65-135			
Surrogate: o-Terphenyl	0.645		"	0.500		129	65-135			
LCS Dup (CW05646-BSD1)				Prepared:	08/28/13	Analyzed	1: 08/29/13			
Diesel	49.8	1.0	mg/kg	50.0		100	65-135	10	30	
Surrogate: o-Terphenyl	0.631		"	0.500		126	65-135			
Matrix Spike (CW05646-MS1)	So	urce: CWH1	008-05	Prepared:	08/28/13	Analyzed	1: 08/29/13			
Diesel	46.9	1.0	mg/kg	50.0	ND	94	59-138			
Surrogate: o-Terphenyl	0.641		"	0.500		128	65-135			
Matrix Spike Dup (CW05646-MSD1)	So	urce: CWH1	008-05	Prepared:	08/28/13	Analyzed	1: 08/29/13			
Diesel	53.7	1.0	mg/kg	50.0	ND	107	59-138	13	37	
Surrogate: o-Terphenyl	0.622		"	0.500		124	65-135			

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05677 - LUFT-DHS GCNV	_			_	-		_		_	
Blank (CW05677-BLK1)				Prepared:	08/29/13	Analyzed	: 09/02/13			
Aldrin	ND	1.7	μg/kg	•						
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4´-DDD	ND	3.3	"							
4,4´-DDE	ND	3.3	"							
4,4´-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.91		"	8.33		83	46-139			
Surrogate: Decachlorobiphenyl	8.26		"	8.33		99	52-141			
LCS (CW05677-BS1)				Prepared:	08/29/13	Analyzed	: 09/02/13			
Aldrin	13.7	1.7	μg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.1	1.7	"	16.7		79	56-133			
4,4´-DDT	14.9	3.3	"	16.7		90	46-137			
Dieldrin	14.7	3.0	"	16.7		88	44-143			
Endrin	13.6	3.3	"	16.7		82	30-147			
Heptachlor	12.7	1.7	"	16.7		76	33-148			
Surrogate: Tetrachloro-meta-xylene	7.40		"	8.33		89	46-139			

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094 Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Allaryte	Resuit	Lillit	Office	Level	Resuit	70 KEC	Lillits	KFD	Lillit	Notes
Batch CW05677 - LUFT-DHS GCNV										
LCS (CW05677-BS1)				Prepared:	08/29/13	Analyzed	1: 09/02/13			
Surrogate: Decachlorobiphenyl	8.34		μg/kg	8.33		100	52-141			
LCS Dup (CW05677-BSD1)				Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	13.0	1.7	μg/kg	16.7		78	47-132	5	30	
gamma-BHC (Lindane)	12.7	1.7	"	16.7		76	56-133	3	30	
4,4´-DDT	15.0	3.3	"	16.7		90	46-137	0.4	30	
Dieldrin	14.5	3.0	"	16.7		87	44-143	1	30	
Endrin	13.8	3.3	"	16.7		83	30-147	0.9	30	
Heptachlor	12.1	1.7	"	16.7		73	33-148	5	30	
Surrogate: Tetrachloro-meta-xylene	6.79		"	8.33		81	46-139			
Surrogate: Decachlorobiphenyl	8.80		"	8.33		106	52-141			
Matrix Spike (CW05677-MS1)	So	urce: CWH1	094-20	Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	18.9	17	μg/kg	16.7	ND	113	47-138			
gamma-BHC (Lindane)	20.3	17	"	16.7	8.50	71	38-144			
4,4´-DDT	59.6	33	"	16.7	49.5	60	41-157			
Dieldrin	20.7	30	"	16.7	ND	124	46-155			
Endrin	27.4	33	"	16.7	ND	164	34-149			QM-7
Heptachlor	16.9	17	"	16.7	ND	101	36-155			
Surrogate: Tetrachloro-meta-xylene	20.5		"	20.8		98	46-139			
Surrogate: Decachlorobiphenyl	37.2		"	20.8		179	52-141			QS-4
Matrix Spike Dup (CW05677-MSD1)	So	urce: CWH1	094-20	Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	18.1	17	μg/kg	16.7	ND	109	47-138	4	35	
gamma-BHC (Lindane)	19.2	17	"	16.7	8.50	64	38-144	6	35	
4,4´-DDT	55.7	33	"	16.7	49.5	37	41-157	7	35	QM-7
Dieldrin	19.2	30	"	16.7	ND	115	46-155	7	35	
Endrin	20.4	33	"	16.7	ND	123	34-149	29	35	
Heptachlor	15.9	17	"	16.7	ND	95	36-155	6	35	
Surrogate: Tetrachloro-meta-xylene	19.5		"	20.8		94	46-139			
Surrogate: Decachlorobiphenyl	38.8		"	20.8		186	52-141			QS-4

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05678 - LUFT-DHS GCNV										
Blank (CW05678-BLK1)				Prepared:	08/29/13	Analyzed	: 09/02/13			
Aldrin	ND	1.7	μg/kg	-						
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4´-DDD	ND	3.3	"							
4,4´-DDE	ND	3.3	"							
4,4´-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	7.51		"	8.33		90	46-139			
Surrogate: Decachlorobiphenyl	7.92		"	8.33		95	52-141			
LCS (CW05678-BS1)				Prepared:	08/29/13	Analyzed	: 09/02/13			
Aldrin	13.9	1.7	μg/kg	16.7		83	47-132			
gamma-BHC (Lindane)	14.4	1.7	"	16.7		86	56-133			
4,4´-DDT	14.7	3.3	"	16.7		88	46-137			
Dieldrin	14.5	3.0	"	16.7		87	44-143			
Endrin	13.0	3.3	"	16.7		78	30-147			
Heptachlor	14.5	1.7	"	16.7		87	33-148			
Surrogate: Tetrachloro-meta-xylene	6.81		"	8.33		82	46-139			

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Tetra Tech Geo Project: 23836 Saklan 2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094 Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05678 - LUFT-DHS GCNV										
LCS (CW05678-BS1)				Prepared:	08/29/13	Analyzed	1: 09/02/13			
Surrogate: Decachlorobiphenyl	7.63		μg/kg	8.33		92	52-141			
LCS Dup (CW05678-BSD1)				Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	14.4	1.7	μg/kg	16.7		86	47-132	4	30	
gamma-BHC (Lindane)	14.8	1.7	"	16.7		89	56-133	3	30	
4,4´-DDT	15.1	3.3	"	16.7		90	46-137	2	30	
Dieldrin	14.8	3.0	"	16.7		89	44-143	2	30	
Endrin	13.3	3.3	"	16.7		80	30-147	2	30	
Heptachlor	15.0	1.7	"	16.7		90	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	6.80		"	8.33		82	46-139			
Surrogate: Decachlorobiphenyl	7.50		"	8.33		90	52-141			
Matrix Spike (CW05678-MS1)	Sou	ırce: CWH1	094-26	Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	13.5	17	$\mu g/kg$	16.7	ND	81	47-138			
gamma-BHC (Lindane)	23.6	17	"	16.7	ND	142	38-144			
4,4´-DDT	254	33	"	16.7	197	341	41-157			QM-7
Dieldrin	14.4	30	"	16.7	ND	87	46-155			
Endrin	12.6	33	"	16.7	ND	75	34-149			
Heptachlor	15.3	17	"	16.7	ND	92	36-155			
Surrogate: Tetrachloro-meta-xylene	19.2		"	20.8		92	46-139			
Surrogate: Decachlorobiphenyl	20.0		"	20.8		96	52-141			
Matrix Spike Dup (CW05678-MSD1)	Sou	ırce: CWH1	094-26	Prepared:	08/29/13	Analyzed	1: 09/02/13			
Aldrin	11.1	17	μg/kg	16.7	ND	67	47-138	20	35	
gamma-BHC (Lindane)	19.2	17	"	16.7	ND	115	38-144	21	35	
4,4´-DDT	209	33	"	16.7	197	74	41-157	19	35	
Dieldrin	11.5	30	"	16.7	ND	69	46-155	23	35	
Endrin	9.77	33	"	16.7	ND	59	34-149	25	35	
Heptachlor	12.2	17	"	16.7	ND	73	36-155	23	35	
Surrogate: Tetrachloro-meta-xylene	16.0		"	20.8		77	46-139			
Surrogate: Decachlorobiphenyl	14.8		"	20.8		71	52-141			

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2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Polychlorinated Biphenyls by EPA Method 8082A - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05679 - LUFT-DHS GCNV										
Blank (CW05679-BLK1)				Prepared:	08/29/13	Analyzed	1: 08/30/13			
Aroclor 1016	ND	20	μg/kg							
Aroclor 1221	ND	20	"							
Aroclor 1232	ND	20	"							
Aroclor 1242	ND	20	"							
Aroclor 1248	ND	20	"							
Aroclor 1254	ND	20	"							
Aroclor 1260	ND	20	"							
Aroclor 1268	ND	20	"							
Surrogate: Decachlorobiphenyl	7.03		"	8.33		84	50-150			
LCS (CW05679-BS1)				Prepared:	08/29/13	Analyzed	1: 08/30/13			
Aroclor 1260	76.4	20	μg/kg	83.3		92	29-131			
Surrogate: Decachlorobiphenyl	7.18		"	8.33		86	50-150			
LCS Dup (CW05679-BSD1)				Prepared:	08/29/13	Analyzed	1: 08/30/13			
Aroclor 1260	76.6	20	μg/kg	83.3		92	29-131	0.3	30	
Surrogate: Decachlorobiphenyl	7.15		"	8.33		86	50-150			
Matrix Spike (CW05679-MS1)	So	urce: CWH1	094-01	Prepared:	08/29/13	Analyzed	1: 08/30/13			
Aroclor 1260	81.0	20	μg/kg	83.3	ND	97	29-131			
Surrogate: Decachlorobiphenyl	4.65		"	8.33		56	50-150			
Matrix Spike Dup (CW05679-MSD1)	So	urce: CWH1	094-01	Prepared:	08/29/13	Analyzed	1: 08/30/13			
Aroclor 1260	80.0	20	μg/kg	83.3	ND	96	29-131	1	30	
Surrogate: Decachlorobiphenyl	5.97		"	8.33		72	50-150			

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Tetra Tech Geo 2969 Prospect Park Drive, Suite 100

Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094

COC #:

#### TPH-Gasoline by GC/MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05701 - EPA 5030 Soil MS										
Blank (CW05701-BLK1)				Prepared	& Analyze	ed: 08/29/	13			
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	0.0254		"	0.0300		85	65-135			
LCS (CW05701-BS1)				Prepared	& Analyze	ed: 08/29/	13			
Gasoline	4.42	0.20	mg/kg	4.00		111	65-135			
Surrogate: Toluene-d8	0.0269		"	0.0300		90	65-135			
LCS Dup (CW05701-BSD1)				Prepared	& Analyze	ed: 08/29/	13			
Gasoline	4.53	0.20	mg/kg	4.00		113	65-135	2	30	
Surrogate: Toluene-d8	0.0271		"	0.0300		90	65-135			
Matrix Spike (CW05701-MS1)	So	ource: CWH1	094-26	Prepared	& Analyze	ed: 08/29/	13			
Gasoline	5.09	0.20	mg/kg	5.00	ND	102	63-124			
Surrogate: Toluene-d8	0.0258		"	0.0300		86	65-135			
Matrix Spike Dup (CW05701-MSD1)	So	ource: CWH1	094-26	Prepared:	08/29/13	Analyzed	1: 08/30/13			
Gasoline	4.87	0.20	mg/kg	5.00	ND	97	63-124	4	35	
Surrogate: Toluene-d8	0.0247		"	0.0300		82	65-135			

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05701 - EPA 5030 Soil MS										
Blank (CW05701-BLK1)				Prepared	& Analyze	ed: 08/29/	13			
Benzene	ND	5.0	μg/kg							
Ethylbenzene	ND	5.0	"							
Toluene	ND	5.0	"							
Xylenes (total)	ND	10	"							
Surrogate: Toluene-d8	25.4		"	30.0		85	60-140			
LCS (CW05701-BS1)				Prepared	& Analyze	ed: 08/29/	13			
Methyl tert-butyl ether	23.6	5.0	$\mu g/kg$	20.0		118	60-140			
Benzene	20.2	5.0	"	20.0		101	60-140			
Surrogate: Toluene-d8	26.9		"	30.0		90	60-140			
LCS Dup (CW05701-BSD1)				Prepared	& Analyz	ed: 08/29/	13			
Methyl tert-butyl ether	20.6	5.0	μg/kg	20.0		103	60-140	14	30	·
Benzene	18.0	5.0	"	20.0		90	60-140	12	30	
Surrogate: Toluene-d8	27.1		"	30.0		90	60-140			

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Tetra Tech Geo Project: 23836 Saklan
2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWH1094
Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QS-4	The surrogate recovery	for this sample is outside	of established control	limits due to a sample	e matrix effect.

QM-7 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

QM-5 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

EXT-3 The sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 13, 2013

CLS Work Order #: CWI0378 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP- 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/10/13 14:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 8 09/13/13 10:54

Tetra Tech Geo 2969 Prospect Park Drive, Suite 100

Rancho Cordova, CA 95670

Project Number: 117-7059010

CLS Work Order #: CWI0378

Project Manager: Tim Costello COC #:

Project: VOP- 23836 Saklan

		REPORT TO:		CLIE	NT JOB NU	MBER	1	Δ		S REQUE		-			KE	OG NO. WE	
NAME AND A	DDRESS Tet	tra Tech GEO		117-7	0590	10										YES	X No
		ect Park Drive		DESTINA	ATION LABO	PROTABO						100000	OB/			LITEO	(2) 14
Rand	cho Core	dova, CA		X CLS	(916) 6	38-7301	PRESERVATIVES	1A)							D		
		Costello (9	16)853-1800	RANK	CHO GORD	OVA, CA. 95742	SE	808				COM	POSITE				
PROJECT NA	4 CO P	- 23836 Sa	klan		uen.	33146	RV	PA				DEL	COND	ETIONS			
SAMPLED BY	Garrett	Kuhl		ОТН	HER		AT	s (E				FILLE	COM	n riore.			
JOB DESCRIP	o out	somples					VE	OC Pesticides (EPA 8081A)				YUN	N ARC	NIAITA S	TIBAC	SPECIAL INST	PUCTIONS
POTE LOCATIO							S	estic	e			108	MAHO	JUND	TIME	OR OR	ROCTIONS
238	36 Sak	lan Ave. Hay	MPLE		CONT	AINER		CP	Archive			- A	1/2	SOAY	DAY DAY		ID:
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9/10/13	0923	SW-17		Soil	1	Jar	-	X				4-	X				
	-	SW-18		Soil	1	Glass Jar Glass		X		1		4	X				
	1021	SO-SW-5-5'		Soil	1	Jar		X					X				
	1025	SO-SW-5-10'		Soil	1	Glass			X								
	1007	SO-SW-7-5'		Soil	1	Glass		X					X				
	1013			Soil	1	Glass			X								
	0952	SO-SW-9-5'		Soil	1	Glass Jar		X					X				
	0957			Soil	1	Glass Jar			X								
V	0940	SO-SW-18-5'		Soil	1	Glass Jar			X					-		MWOICE TO	
										++	+++	+-					
	-						1				TT					PO. #	
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SUSPECTED	CONSTITUENT	s						PRE	SERVATIVES	(1)	HCL HNO <sub>3</sub>		(3) = COI (4) = NaC	DH CL		$(5) = H_2SO_4$ $(6) = Na_2S_2O_3$	(7) =
R	ELINQUISH	HED BY (SIGN)		AME / CON		,		E / TH			RECEIVE	BY (SI	GN)			PRINT NAME / CO	MPANY
Kari	west	T	Keithw.J	affre	IT	9/1	QL.	3 1	415								43
REC'D AT LA	B BY.			DATE / 7	9/10/	13	14	115	nd Deliv			CONDITION	NS / CON	MENTS			

Page 2 of 8 09/13/13 10:54

Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-17 (CWI0378-01) Soil Sam	pled: 09/10/13 09:23	Received: 09	/10/13 1	14:15					
Aldrin	ND	10	μg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	380	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	240	150	"	"	"	"	"	"	
4,4´-DDT	240	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	ne	71 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		91 %	52	2-141	"	"	"	"	
SW-18 (CWI0378-02) Soil Sam	pled: 09/10/13 09:30	Received: 09	/10/13 1	14:15					
Aldrin	ND	10	μg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	180	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	n .	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-18 (CWI0378-02) Soil Sam	pled: 09/10/13 09:30 Re	eceived: 09	/10/13 1	4:15					
4,4´-DDD	ND	150	μg/kg	10	CW05984	. "	09/12/13	EPA 8081A	
4,4´-DDE	900	380	"	25	"	"	"	"	
4,4´-DDT	780	380	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	ne	95 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		123 %	52	2-141	"	"	"	"	
SO-SW-5-5' (CWI0378-03) Soil	Sampled: 09/10/13 10:2	1 Receive	ed: 09/10	0/13 14:15					
Aldrin	ND	10	μg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	510	250	"	25	"	"	"	"	
delta-BHC	ND	100	"	10	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	570	380	"	25	"	"	"	"	
4,4′-DDT	630	380	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-5' (CWI0378-03) Soil	Sampled: 09/10/13 10:21	Receive	ed: 09/1	0/13 14:15					
Endosulfan sulfate	ND	150	μg/kg	10	CW05984	"	09/12/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	e	94 %	46	ó- <i>139</i>	"	"	"	"	
Surrogate: Decachlorobiphenyl		121 %	52	2-141	"	"	"	"	
SO-SW-7-5' (CWI0378-05) Soil	Sampled: 09/10/13 10:07	Receive	ed: 09/10	0/13 14:15					
Aldrin	ND	10	μg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	190	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch I	Prepared	Analyzed	Method	Notes
SO-SW-7-5' (CWI0378-05) Soil	Sampled: 09/10/13 10:07	Receive	ed: 09/10	0/13 14:15					
Mirex	ND	100	μg/kg	10	CW05984	"	09/12/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	e	92 %	46	-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		132 %	52	2-141	"	"	"	"	
SO-SW-9-5' (CWI0378-07) Soil	Sampled: 09/10/13 09:52	Receive	ed: 09/10	0/13 14:15					
Aldrin	ND	10	μg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	390	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	170	150	"	"	"	"	"	"	
4,4´-DDT	160	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylen	e	103 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		132 %	52	-141	"	"	"	"	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05984 - LUFT-DHS GC	CNV									
Blank (CW05984-BLK1)				Prepared:	09/11/13	Analyzed	: 09/12/13			
Aldrin	ND	1.0	μg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.68		"	8.33		80	46-139			
Surrogate: Decachlorobiphenyl	8.47		"	8.33		102	52-141			
LCS (CW05984-BS1)				Prepared:	09/11/13	Analyzed	: 09/12/13			
Aldrin	11.5	1.0	μg/kg	16.7		69	47-132			
gamma-BHC (Lindane)	11.6	10	"	16.7		69	56-133			
4,4´-DDT	17.4	15	"	16.7		104	46-137			
Dieldrin	13.8	1.0	"	16.7		83	44-143			
Endrin	14.0	15	"	16.7		84	30-147			
Heptachlor	13.8	5.0	"	16.7		83	33-148			
Surrogate: Tetrachloro-meta-xylene	5.31		"	8.33		64	46-139			

%REC

RPD

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Tetra Tech Geo

Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project Number: 117-7059010 Project Manager: Tim Costello CLS Work Order #: CWI0378

COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

A 1-4-	D. 1	Reporting	TT. 14	Spike	Source	0/ DEC	%REC	DDD	RPD	NI
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW05984 - LUFT-DHS GCNV										
LCS (CW05984-BS1)				Prepared:	09/11/13	Analyzed	1: 09/12/13			
Surrogate: Decachlorobiphenyl	8.55		μg/kg	8.33		103	52-141			
LCS Dup (CW05984-BSD1)				Prepared:	09/11/13	Analyzed	1: 09/12/13			
Aldrin	13.0	1.0	μg/kg	16.7		78	47-132	12	30	
gamma-BHC (Lindane)	13.1	10	"	16.7		79	56-133	13	30	
4,4´-DDT	16.9	15	"	16.7		101	46-137	3	30	
Dieldrin	13.7	1.0	"	16.7		82	44-143	0.1	30	
Endrin	13.8	15	"	16.7		83	30-147	1	30	
Heptachlor	13.8	5.0	"	16.7		83	33-148	0.1	30	
Surrogate: Tetrachloro-meta-xylene	6.33		"	8.33		76	46-139			
Surrogate: Decachlorobiphenyl	8.05		"	8.33		97	52-141			
Matrix Spike (CW05984-MS1)	So	urce: CWI03	378-07	Prepared:	09/11/13	Analyzed	1: 09/12/13			
Aldrin	20.5	10	μg/kg	16.7	ND	123	47-138			
gamma-BHC (Lindane)	68.5	100	"	16.7	41.0	165	38-144			QM-7
4,4´-DDT	208	150	"	16.7	159	290	41-157			QM-7
Dieldrin	21.3	10	"	16.7	ND	128	46-155			
Endrin	18.7	150	"	16.7	ND	112	34-149			
Heptachlor	37.8	50	"	16.7	ND	227	36-155			QM-7
Surrogate: Tetrachloro-meta-xylene	23.2		"	20.8		112	46-139			
Surrogate: Decachlorobiphenyl	24.5		"	20.8		117	52-141			
Matrix Spike Dup (CW05984-MSD1)	So	urce: CWI03	<b>578-07</b>	Prepared:	09/11/13	Analyzed	1: 09/12/13			
Aldrin	17.3	10	μg/kg	16.7	ND	104	47-138	17	35	
gamma-BHC (Lindane)	55.3	100	"	16.7	41.0	86	38-144	21	35	
4,4´-DDT	179	150	"	16.7	159	119	41-157	15	35	
Dieldrin	19.1	10	"	16.7	ND	114	46-155	11	35	
Endrin	18.7	150	"	16.7	ND	112	34-149	0.2	35	
Heptachlor	30.6	50	"	16.7	ND	184	36-155	21	35	QM-7
Surrogate: Tetrachloro-meta-xylene	20.9		"	20.8		100	46-139			
Surrogate: Decachlorobiphenyl	24.6		"	20.8		118	52-141			

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0378

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QM-7 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

### CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 17, 2013

CLS Work Order #: CWI0577
COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP- 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/13/13 15:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 6 09/17/13 13:22

Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

CLS Labs Job	# CWI 03:	78			
Project Name: _	VOP				
Date Sample(s) V	Vere Received:	9/10/3	<u>, , , , , , , , , , , , , , , , , , , </u>	Original Date _	9/13/13
<u>Keith</u>	Mc/n type ent Contacted)	of _	Tetra-Tech (Company	bes	called
on	9//3 //3 (Date)	at	140	Time)	
Please	PIN EDI		sted the followin	ıg:	
	50 - 5W	-17-5'	(48) (44)		
	50-5W	-5-10'	(44)		
2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Turnaround time	requested for add	titional work:		9/13/13 (Date)	
Undated lab ish d	atabase and file fo	older by:	IN OFE	LIANA	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-10' (CWI0577-04) Soil Sampled	l: 09/10/13 10:25 R	eceived: 09/13	3/13 15:15	5					
Aldrin	ND	20	μg/kg	10	CW06086	09/14/13	09/16/13	EPA 8081A	
alpha-BHC	ND	40	"	"	"	"	"	"	
beta-BHC	300	200	"	"	"	"	"	"	
delta-BHC	ND	200	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	200	"	"	"	"	"	"	
Chlordane-technical	ND	400	"	"	"	"	"	"	
4,4′-DDD	ND	300	"	"	"	"	"	"	
4,4´-DDE	430	300	"	"	"	"	"	"	
4,4´-DDT	350	300	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	300	"	"	"	"	"	"	
Endosulfan II	ND	300	"	"	"	"	"	"	
Endosulfan sulfate	ND	300	"	"	"	"	"	"	
Endrin	ND	300	"	"	"	"	"	"	
Endrin aldehyde	ND	300	"	"	"	"	"	"	
Heptachlor	ND	100	"	"	"	"	"	"	
Heptachlor epoxide	ND	40	"	"	"	"	"	"	
Methoxychlor	ND	300	"	"	"	"	"	"	
Mirex	ND	200	"	"	"	"	"	"	
Toxaphene	ND	400	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53 %	46	-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		56 %	52	-141	"	"	"	"	
SO-SW-17-5' (CWI0577-08) Soil Sampled	l: 09/10/13 09:57 R	eceived: 09/13	3/13 15:15	5					
Aldrin	ND	20	μg/kg	10	CW06086	09/14/13	09/16/13	EPA 8081A	
alpha-BHC	ND	40	"	"	"	"	"	"	
beta-BHC	ND	200	"	"	"	"	"	"	
delta-BHC	ND	200	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	200	"	"	"	"	"	"	
Chlordane-technical	ND	400	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-17-5' (CWI0577-08) Soil	Sampled: 09/10/13 09:57	Received: 09/13	3/13 15:1:	5					
4,4'-DDD	ND	300	μg/kg	10	CW06086	"	09/16/13	EPA 8081A	
4,4'-DDE	540	300	"	"	"	"	"	"	
4,4'-DDT	320	300	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	300	"	"	"	"	"	"	
Endosulfan II	ND	300	"	"	"	"	"	"	
Endosulfan sulfate	ND	300	"	"	"	"	"	"	
Endrin	ND	300	"	"	"	"	"	"	
Endrin aldehyde	ND	300	"	"	"	"	"	"	
Heptachlor	ND	100	"	"	"	"	"	"	
Heptachlor epoxide	ND	40	"	"	"	"	"	"	
Methoxychlor	ND	300	"	"	"	"	"	"	
Mirex	ND	200	"	"	"	"	"	"	
Toxaphene	ND	400	"	"	"	"	n .	"	
Surrogate: Tetrachloro-meta-xylene	?	60 %	46	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		103 %	52	2-141	"	"	"	"	

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06086 - EPA method 3545										
Blank (CW06086-BLK1)				Prepared: (	09/14/13 A	nalyzed: 09	/16/13			
Aldrin	ND	2.0	μg/kg							
alpha-BHC	ND	4.0	"							
beta-BHC	ND	20	"							
delta-BHC	ND	20	"							
gamma-BHC (Lindane)	ND	20	"							
Chlordane-technical	ND	40	"							
4,4′-DDD	ND	30	"							
4,4′-DDE	ND	30	"							
4,4′-DDT	ND	30	"							
Dieldrin	ND	2.0	"							
Endosulfan I	ND	30	"							
Endosulfan II	ND	30	"							
Endosulfan sulfate	ND	30	"							
Endrin	ND	30	"							
Endrin aldehyde	ND	30	"							
Heptachlor	ND	10	"							
Heptachlor epoxide	ND	4.0	"							
Methoxychlor	ND	30	"							
Mirex	ND	20	"							
Toxaphene	ND	40	"							
Surrogate: Tetrachloro-meta-xylene	23.2		"	33.3		70	46-139			
Surrogate: Decachlorobiphenyl	18.3		"	33.3		55	52-141			
LCS (CW06086-BS1)				Prepared: (	09/14/13 A	nalyzed: 09	/16/13			
Aldrin	39.9	2.0	μg/kg	33.3		120	47-132			
gamma-BHC (Lindane)	33.9	20	"	33.3		102	56-133			
1,4′-DDT	42.3	30	"	33.3		127	46-137			
Dieldrin	30.7	2.0	"	33.3		92	44-143			
Endrin	30.1	30	"	33.3		90	30-147			
Heptachlor	28.9	10	"	33.3		87	33-148			
Surrogate: Tetrachloro-meta-xylene	27.0		"	33.3		81	46-139			

%REC

RPD

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch CW06086 - EPA method 3545										
LCS (CW06086-BS1)				Prepared:	09/14/13 A	nalyzed: 09	0/16/13			
Surrogate: Decachlorobiphenyl	18.9		μg/kg	33.3		57	52-141			
LCS Dup (CW06086-BSD1)				Prepared:	09/14/13 A	nalyzed: 09	0/16/13			
Aldrin	39.3	2.0	μg/kg	33.3		118	47-132	1	30	
gamma-BHC (Lindane)	33.1	20	"	33.3		99	56-133	2	30	
4,4'-DDT	42.0	30	"	33.3		126	46-137	0.7	30	
Dieldrin	30.6	2.0	"	33.3		92	44-143	0.6	30	
Endrin	29.5	30	"	33.3		88	30-147	2	30	
Heptachlor	27.8	10	"	33.3		83	33-148	4	30	
Surrogate: Tetrachloro-meta-xylene	26.5		"	33.3		80	46-139			
Surrogate: Decachlorobiphenyl	18.6		"	33.3		56	52-141			
Matrix Spike (CW06086-MS1)	Sou	rce: CWI0577	7-08	Prepared:	09/14/13 A	nalyzed: 09	9/16/13			
Aldrin	34.6	20	μg/kg	33.3	ND	104	47-138			
gamma-BHC (Lindane)	56.6	200	"	33.3	31.1	77	38-144			
4,4'-DDT	371	300	"	33.3	320	154	41-157			
Dieldrin	37.9	20	"	33.3	ND	114	46-155			
Endrin	96.7	300	"	33.3	69.4	82	34-149			
Heptachlor	43.2	100	"	33.3	ND	130	36-155			
Surrogate: Tetrachloro-meta-xylene	19.7		"	33.3		59	46-139			
Surrogate: Decachlorobiphenyl	15.8		"	33.3		47	52-141			QS-
Matrix Spike Dup (CW06086-MSD1)	Sou	rce: CWI0577	7-08	Prepared:	09/14/13 A	nalyzed: 09	9/16/13			
Aldrin	34.3	20	μg/kg	33.3	ND	103	47-138	0.7	35	
gamma-BHC (Lindane)	55.6	200	"	33.3	31.1	74	38-144	2	35	
4,4'-DDT	360	300	"	33.3	320	123	41-157	3	35	
Dieldrin	37.1	20	"	33.3	ND	111	46-155	2	35	
Endrin	94.2	300	"	33.3	69.4	74	34-149	3	35	
Heptachlor	42.2	100	"	33.3	ND	127	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	19.0		"	33.3		57	46-139			
Surrogate: Decachlorobiphenyl	23.6		"	33.3		71	52-141			

#### CALIFORNIA LABORATORY SERVICES

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Tetra Tech Geo Project: VOP- 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010 CLS Work Order #: CWI0577

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QS-4 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

### CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1128 COC #:

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP - Hayward 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

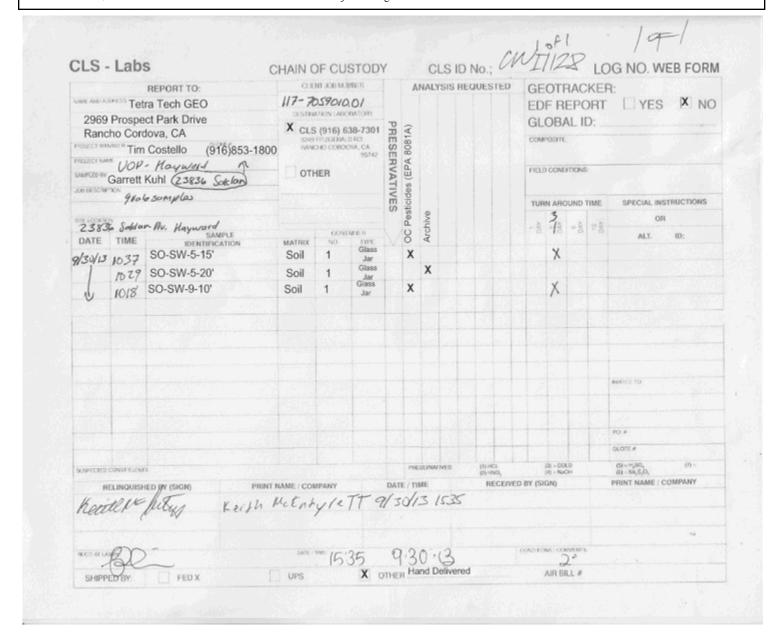
CA DOHS ELAP Accreditation/Registration number 1233

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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:



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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Alpha-BHC		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Apha-BHC	-15' (CWI1128-01) Soil Sampl	ed: 09/30/13 10:37 l	Received: 09/30	)/13 15:3:	5					
Near-BHC   Care   Car		ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
State   Stat	2	ND	20	"	"	"	"	"	"	
gamma-BHC (Lindane)         ND         100         """"""""""""""""""""""""""""""""""""		240	100	"	"	"	"	"	"	
Chlordane-technical   ND   200   " " " " " " " " " " "   "   "   "		ND	100	"	"	"	"	"	"	
4,4-DDD         1200         600         "         40         "         <	HC (Lindane)	ND	100	"	"	"	"	"	"	
4,4 - DDE         840         600         "         <	-technical	ND	200	"	"	"	"	"	"	
A4-DDT		1200	600	"	40	"	"	"	"	
Dieldrin		840	600	"	"	"	"	"	"	
Endosulfan I ND 150 " " " " " " " " " " " " " " " " " " "		8000	7500	"	500	"	"	"	"	
Endosulfan II ND 150 " " " " " " " " " " " " " " " Endosulfan sulfate ND 150 " " " " " " " " " " " " " " " " " " "		ND	10	"	10	"	"	"	"	
Endosulfan sulfate ND 150 " " " " " " " " " " " " " " " " " " "	n I	ND	150	"	"	"	"	"	"	
Endrin ND 150 " " " " " " " " " " " " " " " " " " "	n II	ND	150	"	"	"	"	"	"	
Endrin aldehyde         ND         150         "	n sulfate	ND	150	"	"	"	"	"	"	
Heptachlor   ND   50		ND	150	"	"	"	"	"	"	
Heptachlor epoxide	ehyde	ND	150	"	"	"	"	"	"	
Methoxychlor         ND         150         "	r	ND	50	"	"	"	"	"	"	
Mirex         ND         100         "<	r epoxide	ND	20	"	"	"	"	"	"	
Toxaphene         ND         200         "         <	hlor	ND	150	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene       81 % 46-139       " " " " " "         Surrogate: Decachlorobiphenyl       88 % 52-141       " " " " " "         SO-SW-9-10' (CWI1128-03) Soil       Sampled: 09/30/13 10:18       Received: 09/30/13 15:35         Aldrin       ND       10 μg/kg       10 CW06517 10/01/13       10/02/13 EPA 8081 alpha-BHC         beta-BHC       ND       100 " " " " " " " " " " " " " " " " " "		ND	100	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl         88 %         52-141         "		ND	200	"	"	"	"	"	"	
SO-SW-9-10' (CWI1128-03) Soil Sampled: 09/30/13 10:18 Received: 09/30/13 15:35  Aldrin ND 10 μg/kg 10 CW06517 10/01/13 10/02/13 EPA 8081 alpha-BHC ND 20 " " " " " " " " " " " " " " deta-BHC ND 100 " " " " " " " " " " " " " " " " " "	Tetrachloro-meta-xylene		81 %	46	5-139	"	"	"	"	
Aldrin ND 10 μg/kg 10 CW06517 10/01/13 10/02/13 EPA 8081 alpha-BHC ND 20 " " " " " " " " " " " " " delta-BHC ND 100 " " " " " " " " " " " " " " " " " "	Decachlorobiphenyl		88 %	52	?-141	"	"	"	"	
alpha-BHC       ND       20       " <th< td=""><td>-10' (CWI1128-03) Soil Sampl</td><td>ed: 09/30/13 10:18 I</td><td>Received: 09/30</td><td>)/13 15:3:</td><td>5</td><td></td><td></td><td></td><td></td><td></td></th<>	-10' (CWI1128-03) Soil Sampl	ed: 09/30/13 10:18 I	Received: 09/30	)/13 15:3:	5					
beta-BHC		ND	10	μg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
delta-BHC         ND         100         " <t< td=""><td></td><td>ND</td><td>20</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>		ND	20	"	"	"	"	"	"	
gamma-BHC (Lindane) ND 100 " " " " " " " "		ND	100	"	"	"	"	"	"	
		ND	100	"	"	"	"	"	"	
	HC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical ND 200 " " " " " " "	-technical	ND	200	"	"	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-9-10' (CWI1128-03) Soil	Sampled: 09/30/13 10:18	Received: 09/30	0/13 15:3	5					
4,4′-DDD	ND	150	μg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4'-DDE	ND	150	"	"	"	"	"	"	
4,4'-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylend	ę	61 %	40	5-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		126 %	52	2-141	"	"	"	"	

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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

		Reporting		Spike	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 1	10/01/13 A	nalyzed: 10	/02/13			
Aldrin	ND	1.0	μg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4′-DDD	ND	15	"							
4,4′-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Гохарнепе	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	6.25		"	8.33		75	46-139			
Surrogate: Decachlorobiphenyl	9.24		"	8.33		111	52-141			
LCS (CW06517-BS1)				Prepared: 1	10/01/13 A	nalyzed: 10	/02/13			
Aldrin	13.6	1.0	μg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4′-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	6.82		"	8.33		82	46-139			

RPD

%REC

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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyta	D14	Reporting	I India	Spike	Source	0/DEC	%REC	DDD	RPD	NIo+
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Surrogate: Decachlorobiphenyl	9.03	·	μg/kg	8.33		108	52-141			
LCS Dup (CW06517-BSD1)				Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	13.8	1.0	μg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4'-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	6.99		"	8.33		84	46-139			
Surrogate: Decachlorobiphenyl	9.01		"	8.33		108	52-141			
Matrix Spike (CW06517-MS1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.5	10	μg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4'-DDT	28.1	150	"	16.7	ND	169	41-157			QM-77
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	19.2		"	20.8		92	46-139			
Surrogate: Decachlorobiphenyl	23.5		"	20.8		113	52-141			
Matrix Spike Dup (CW06517-MSD1)	Sou	rce: CWI1105	5-18	Prepared:	10/01/13 A	nalyzed: 10	0/02/13			
Aldrin	16.1	10	μg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4'-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-77
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	18.4		"	20.8		88	46-139			
Surrogate: Decachlorobiphenyl	24.7		"	20.8		118	52-141			

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Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1128

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #:

#### **Notes and Definitions**

QM-7T The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane

interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

### CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 08, 2013

CLS Work Order #: CWJ0242 COC #: GREEN

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: VOP - Hayward 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 10/04/13 14:23. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 5 10/08/13 12:51

Tetra Tech Geo

Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100

Rancho Cordova, CA 95670

Project Number: 117-7059010.01

CLS Work Order #: CWJ0242

Project Manager: Tim Costello COC #: GREEN

				12
CLS Labs Job# CWI 1/28				
Project Name: VOP- HAYWARD	23836	Saklan		
Date Sample(s) Were Received:	7/34/13	_ Ori	ginal Date _	10/3/13
Kerth Malatyre (Client Contacted)	of	(Company)	60	called called
on 10/4 //3	at	/630 (Tim	e)	
		he following:		
Please DUN EDA	-			
SO-5W-5-2	0' (4	(2)		
	1 1 1			<del></del>
			0	
Turnaround time requested for additional v	work:		day	
(Signature) Jun			(Date)	
Updated lab job database and file folder by Ce:	:			
			1 . 1	

Page 2 of 5 10/08/13 12:51

Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWJ0242

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-20' (CWJ0242-02) Soil	Sampled: 09/30/13 10:29	Received: 10/04	1/13 14:23	3					
Aldrin	ND	10	μg/kg	10	CW06622	10/04/13	10/08/13	EPA 8081A	<u> </u>
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	230	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4′-DDD	ND	150	"	"	"	"	"	"	
4,4'-DDE	1200	600	"	40	"	"	"	"	
4,4'-DDT	730	300	"	20	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	n	II .	
Surrogate: Tetrachloro-meta-xylene	?	89 %	46-	-139	"	"	"	"	
Surrogate: Decachlorobiphenyl		131 %	52-	-141	"	"	"	"	

Page 3 of 5 10/08/13 12:51

Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWJ0242

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

Reporting

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch CW06622 - LUFT-DHS GCNV											
Blank (CW06622-BLK1)	Prepared: 10/04/13 Analyzed: 10/08/13										
Aldrin	ND	1.0	μg/kg								
alpha-BHC	ND	2.0	"								
beta-BHC	ND	10	"								
delta-BHC	ND	10	"								
gamma-BHC (Lindane)	ND	10	"								
Chlordane-technical	ND	20	"								
4,4′-DDD	ND	15	"								
4,4′-DDE	ND	15	"								
4,4′-DDT	ND	15	"								
Dieldrin	ND	1.0	"								
Endosulfan I	ND	15	"								
Endosulfan II	ND	15	"								
Endosulfan sulfate	ND	15	"								
Endrin	ND	15	"								
Endrin aldehyde	ND	15	"								
Heptachlor	ND	5.0	"								
Heptachlor epoxide	ND	2.0	"								
Methoxychlor	ND	15	"								
Mirex	ND	10	"								
Toxaphene	ND	20	"								
Surrogate: Tetrachloro-meta-xylene	8.59		"	8.33		103	46-139				
Surrogate: Decachlorobiphenyl	9.40		"	8.33		113	52-141				
LCS (CW06622-BS1)	Prepared: 10/04/13 Analyzed: 10/08/13										
Aldrin	16.3	1.0	μg/kg	16.7		98	47-132				
gamma-BHC (Lindane)	15.1	10	"	16.7		91	56-133				
4,4′-DDT	14.3	15	"	16.7		86	46-137				
Dieldrin	16.3	1.0	"	16.7		98	44-143				
Endrin	11.2	15	"	16.7		67	30-147				
Heptachlor	13.7	5.0	"	16.7		82	33-148				
Surrogate: Tetrachloro-meta-xylene	9.02		"	8.33		108	46-139				

%REC

RPD

Page 4 of 5 10/08/13 12:51

Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWJ0242

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

#### Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analas	D14	Reporting	T I:4.	Spike	Source	0/DEC	%REC	DDD	RPD	Nec	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch CW06622 - LUFT-DHS GCNV											
LCS (CW06622-BS1)	Prepared: 10/04/13 Analyzed: 10/08/13										
Surrogate: Decachlorobiphenyl	9.61		μg/kg	8.33		115	52-141				
LCS Dup (CW06622-BSD1)	Prepared: 10/04/13 Analyzed: 10/08/13										
Aldrin	12.8	1.0	μg/kg	16.7		77	47-132	24	30		
gamma-BHC (Lindane)	12.0	10	"	16.7		72	56-133	23	30		
4,4′-DDT	12.0	15	"	16.7		72	46-137	18	30		
Dieldrin	12.9	1.0	"	16.7		78	44-143	23	30		
Endrin	9.42	15	"	16.7		57	30-147	17	30		
Heptachlor	10.9	5.0	"	16.7		66	33-148	23	30		
Surrogate: Tetrachloro-meta-xylene	8.51		"	8.33		102	46-139				
Surrogate: Decachlorobiphenyl	9.17		"	8.33		110	52-141				
Matrix Spike (CW06622-MS1)	Source: CWJ0210-13		Prepared: 10/04/13 Analyzed: 10/08/13								
Aldrin	15.0	10	μg/kg	16.7	ND	90	47-138				
gamma-BHC (Lindane)	14.4	100	"	16.7	ND	86	38-144				
4,4´-DDT	18.9	150	"	16.7	ND	114	41-157				
Dieldrin	17.4	10	"	16.7	ND	104	46-155				
Endrin	14.2	150	"	16.7	ND	85	34-149				
Heptachlor	15.6	50	"	16.7	ND	94	36-155				
Surrogate: Tetrachloro-meta-xylene	15.3		"	20.8		74	46-139				
Surrogate: Decachlorobiphenyl	19.1		"	20.8		92	52-141				
Matrix Spike Dup (CW06622-MSD1)	Source: CWJ0210-13		Prepared: 10/04/13 Analyzed: 10/08/13								
Aldrin	14.5	10	μg/kg	16.7	ND	87	47-138	4	35		
gamma-BHC (Lindane)	13.7	100	"	16.7	ND	82	38-144	5	35		
4,4´-DDT	17.6	150	"	16.7	ND	106	41-157	7	35		
Dieldrin	16.5	10	"	16.7	ND	99	46-155	5	35		
Endrin	13.4	150	"	16.7	ND	81	34-149	6	35		
Heptachlor	14.7	50	"	16.7	ND	88	36-155	6	35		
Surrogate: Tetrachloro-meta-xylene	14.5		"	20.8		70	46-139				
Surrogate: Decachlorobiphenyl	18.8		"	20.8		90	52-141				

Page 5 of 5 10/08/13 12:51

Tetra Tech Geo Project: VOP - Hayward 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWJ0242

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 02, 2013

CLS Work Order #: CWI1061 COC #: GREEN

Tim Costello Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670

Project Name: 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/27/13 09:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D. Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

Page 1 of 4 10/02/13 10:12

Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670 Project Number: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1061

COC #: GREEN

Project Name: 23836 SAKLAL  Date Sample(s) Were Received: 6/28/13 Original Date 9/3/13  Ketth MeIntyre of Teth Tech called  on 9/24/13 at 0900 hrs  and requested the following:  Run 37LC Chromium CA Samples:  24 (Pile 2) 25 (Pile 3-1) 26 (Pile 3-2)  Turnaround time requested for additional work: 9/24/3  (Signature) 9/24/3  Updated lab job database and file folder by:		CHANGE OF STATUS CWI 1061
Date Sample(s) Were Received: E/28/13 Original Date 9/3/13  KEITH McINTYRE of TETTA TeCH called  on 9/24/13 at BGOO hrs (Time)  and requested the following:  Ron 372C Chromium on Samples  -24 (R/e 2) 25 (R/e 3-1) -26 (R/e 3-2)  Turnaround time requested for additional work: 9/24/13 (Signature)  Updated lab job database and file folder by:	CLS Labs Job# OWH	1109A - A11 JUIS
Turnaround time requested for additional work:    Company   Company   Company	Project Name: 23836	SAKLAL
on 9/27/13 at 0900 hrs.  and requested the following:  Run 372C Chromium on Samples'  -24 (Pile 2) 25 (Pile 3-1) -26 (Pile 3-2)  Turnaround time requested for additional work: 3 Day  (Signature)  Updated lab job database and file folder by:	Date Sample(s) Were Received	d: 8/28/13 Original Date 9/3/13
and requested the following:  Run 372C Chronium of Samples:  -24 (Pile 2) 25 (Pile 3-1) -26 (Pile 3-2)  Turnaround time requested for additional work:  (Signature)  3 DAY 9/2 > 1/3 (Date)  Updated lab job database and file folder by:	Keith McIn;	TYRE of TestA Tect4 called
Run 37LC Chronium on Samples'  -24 (RIe 2) 25 (RIe 3-1) -26 (RIe 3-2)  Turnaround time requested for additional work:  (Signature)  Updated lab job database and file folder by:	on 9/27/13	at @900 hrs (Time)
Turnaround time requested for additional work:  Signature  (Signature)  3  DAY  9/2-1/3  (Date)  Updated lab job database and file folder by:	Run 37LC	그는 그 사람들에 가게 소급하게 하시는 그리고 그는 그 그리고 하는데 그리고
Updated lab job database and file folder by:	-24 (Pile 2) 25 (Pile 3-1) -26 (Pile 3-2	
Updated lab job database and file folder by:		
	- /-	or additional work: 3 DAY
Cei	(Signature)	9/2 <del>7</del> /3 (Date)
	Updated lab job database and	(Date)

Page 2 of 4 10/02/13 10:12

Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1061

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

#### STLC (WET) Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 2 (CWI1061-24) Soil Sampled: 08/28/13 07:5	3 Received:	09/27/13 09:0	00						
Chromium	0.87	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM
Pile 3-1 (CWI1061-25) Soil Sampled: 08/28/13 08	3:18 Receive	d: 09/27/13 09	0:00						
Chromium	0.65	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM
Pile 3-2 (CWI1061-26) Soil Sampled: 08/28/13 08	3:21 Receive	d: 09/27/13 09	0:00						
Chromium	2.5	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1061

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

#### STLC (WET) Metals by 6000/7000 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch CW06475 - EPA 3010A										
Blank (CW06475-BLK1)				Prepared &	: Analyzed:	09/30/13				
Chromium	ND	0.050	mg/L							
LCS (CW06475-BS1)				Prepared &	Analyzed:	09/30/13				
Chromium	5.30	0.50	mg/L	5.00		106	80-120			
Matrix Spike (CW06475-MS1)	Sour	ce: CWI1061	-24	Prepared &	Analyzed:	09/30/13				
Chromium	6.00	0.50	mg/L	5.00	0.865	103	75-125			
Matrix Spike Dup (CW06475-MSD1)	Sour	ce: CWI1061	-24	Prepared &	: Analyzed:	09/30/13				
Chromium	6.20	0.50	mg/L	5.00	0.865	107	75-125	3	30	

CA DOHS ELAP Accreditation/Registration Number 1233

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Tetra Tech Geo Project: 23836 Saklan

2969 Prospect Park Drive, Suite 100 Project Number: 117-7059010.01 CLS Work Order #: CWI1061

Rancho Cordova, CA 95670 Project Manager: Tim Costello COC #: GREEN

#### **Notes and Definitions**

A-COM Run by ICP-MS (EPA6020)

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

### ATTACHMENT D

Hazardous Waste Manifests and Landfill Weight Report

1	UNIF	ORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number  CAC002/43078	2. Page 1 of 3. E	800-838-147	7	4. Manifest 01.	Tracking Nu 124	Approved.  100	100	JK
	Gener	ator's Phone: 41	RAMIREZ NY STREET NISCO, CA 94124 USA 18-197-0724 Programme vis		rator's Site Address A 23936 SA HAYWAR	KLAN RO D, CA 94	AD	tionel Sing	16. inlema ar export si	nen 1	
		nsporter 1 Company Nam  Lit Nill 5 12:  nsporter 2 Company Nam	TRANSPORTATION INC.	WALL Tre	CKIN	Grandini s Grandini sa Semolikas	U.S. EPAID	AD98281	3632	60	6
Ц	O Doc	ignated Facility Name and	10%-444-		748	S. Cark	,			Hay!	i the
	1	CLEAN HAR 2000 WEST BUTTONWII	BORS ENVIRONMENTAL LOKERN RD LLOW, CA 93208 LISA	katiras sporar, That person n	or behalf et kine	o Pecent		D990076	de la		
	9a. HM	and Packing Group (if a		P	10. Conta	ners Type	11. Total Quantity	12. Unit Wt./Vol.	105 (15.13. V	Waste Coo	les
GENERATOR -		NONE NON	Aleus solesconos legissociadas (A. RCRA HAZARDOUS WASTE, SOLI	DS (DDD,DDE,DDT),MA	ng the waste of derive the data a derive the data a	son accep	ne vid typinsm ne vid typinsm	enter their bed an thi	611		
GENE		2. of mail hot at	ai Şinoments Biqok. Sez anave reşirucion	artifonsakon in he intension	teriograms or the or settilidishe	: have res	się yam shody Espoots caro	carrying i	ansporter		
		3,									
		4		30-1					y		
11	14 Sn	ocial Handling Instructions	and Additional Information					1			
	E) l c	ENERATOR'S/OFFEROR arked and labeled/placard porter, I certify that the co ertify that the waste minin or's/Offeror's Printed/Typ		contents of this consignment are fully transport according to applicable in of the attached EPA Acknowledgment	ternational and nati	onal governm	ental regulations.	ipping name If export shi	, and are class prent and I a	m the Prin	mary /
:1	6. Inte	national Shipments	□RAMIRLZ □Import to U.S.	Export from U.S.	YZWY L Port of en				110		1113
_	-	orter signature (for exports sporter Acknowledgment			Date leavi				10	2	7 -
	ranspo	rter 1 Printed/Typed Name	el -	Signature	and the second	-		-/	Monti	h Day	Year
T	ranspo	rter 2 Printed/Typed Name		Signature	<u>(AA)B</u>	2	5.76	30	Monti	ク < h Day	Year
-		repancy		<b>*</b>	11818					and the	
1	Ba. Dis	crepancy Indication Space	e Quantity [	Туре	Residue  Manifest Reference		Partial Reje	ection		Full Rej	ection
		mate Facility (or Generati	or)		THE PROPERTY OF THE PROPERTY O	o ?	U.S. EPA ID N	umber			
		Phone: lature of Alternate Facility	(or Generator)						Mont	th Day	y Year
19	. Haza	rdous Waste Report Man	agement Method Codes (i.e., codes for hazardou	is waste treatment, disposal, and re	cycling systems)		4.	1	i de la composition della comp		
20	. Desig	nated Facility Owner or C	Operator: Certification of receipt of hazardous ma	terials covered by the manifest exce	ept as noted in Item	18a					
Pr	nted/T	/ped Name 3	and Andiec	Signature	Pel	and all	25		Month	Day	Year

1	WASTE MANIFEST	CAC00274	3078	1	Emergency Respons	7	4. Manifest	124	100	5	J,
	1210 GILI SAN FRAN	O RAMIREZ MAN STREET MCISCO, CA 94124	USA  ASIV (alots plue final axe for M		HAYWAR	KLAN ROA D, CA 948	an mailing addre	ss) igut2.tanoi	lib. Internat		
6. T	DENREST	E TRANSPORTATIO	Application of the ball	A CISURAL SOLES	ruc Ki	D7	US EPAID	AD9825	2015	189	2
	ransporter 2 Company Na					la est	U.S. EPA ID I				
	2500 WES	and site Address IRBORS ENVIRONM IT LOKERN RD IILLOW, CA. 93208 161-762-8200		gener wrango	to talkine o no	10/2011/03		D98007		ned Len	
9a. HM	and Packing Group (i	fany))	ng Name, H <b>aza</b> rd Class, ID Numbe	Poprato lo nonaro.	10. Conta		211. Total	12. Unit	Total Section	Waste Co	de
	1. SONE NO	N RORA HAZARDOU	ifensjoner, Therperdonmuling), <b>equicos, arteAW &amp;</b>	DOE DOT NA	un Teleswedt gr Detad onhed	gbrotines e	q edito erasa nazinasi 18	The American	อได้เอเดิด บ <b>ดีใ</b> ป้อ		
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	WASTE PROFIL WEAR ALL APP		1208 Sales Order ( En handling materia	AL (	132		S Z PENBESTE				
15 jč	WASTE PROFIL WEAR ALL APP GENERATOR'S/OFFERC marked and labeled/place Exporter, I certify that the	E NUMBER: CHOOS  ROPRIATE PPE WHO  OR'S CERTIFICATION: I he  irded, and are in all respects  contents of this consignment  imization statement identified  red Nama	EN HANDLING MATERIA  reby declare that the contents of the in proper condition for transport ac- conform to the terms of the attach d in 40 CFR 262.27(a) (if I am a lar	is consignment are full coording to applicable in add EPA Askrayda	nternational and nation	cribed above b	by the proper shintal regulations.		, and are clas	ssified, pac am the Prir	ma
General 16. Int	WASTE PROFIL WEAR ALL APP GENERATOR'S/OFFERO marked and labeled/place Exporter, I certify that the I certify that the waste mir rator's/Offeror's Printed/Ty Lemational Shipments	ROPRIATE PPE WHO DR'S CERTIFICATION: I her rided, and are in all respects contents of this consignment imization statement identifier right Nama	EN HANDLING MATERIA  Teby declare that the contents of the in proper condition for transport ac conform to the terms of the attach d in 40 CFR 262.27(a) (if I am a lar	is consignment are full cording to applicable ed EPA Acknowledgm ge quantity generator)	nternational and nation of Consent. or (b) (if I am a sma	ocribed above bonal governmen	by the proper shintal regulations.			ssified, pac am the Prir	ma
General Trans	WASTE PROFIL WEAR ALL APP GENERATOR'S/OFFERCE marked and labeled/place Exporter, I certify that the I certify that the waste mir rator's/Offeror's Printed/Ty ternational Shipments sporter signature (for expo	ROPRIATE PPE WHO DR'S CERTIFICATION: I he rided, and are in all respects contents of this consignment initization statement identifier ped Name  Import to U.S. rts only):  t of Receipt of Materials	EN HANDLING MATERIA  Teby declare that the contents of the in proper condition for transport ac conform to the terms of the attach d in 40 CFR 262.27(a) (if I am a lar	is consignment are full coording to applicable is ed EPA Acknowledgminge quantify generator)  Signature  Export from U.S.	nternational and national of Consent. or (b) (if I am a sma	cribed above bonal governmen	by the proper shintal regulations.		, and are clas prent and I	ssified, pac am the Prir	ma
General 16. Initrans 17. Trans	WASTE PROFIL WEAR ALL APP GENERATOR'S/OFFERG marked and labeled/place Exporter, I certify that the I certify that the waste mir rator's/Offeror's Printed/Ty ternational Shipments sporter signature (for expo ansporter Acknowledgmen poot 1 Printed/Typed Nai	ROPRIATE PPE WHO DR'S CERTIFICATION: I he rated, and are in all respects contents of this consignment inimization statement identified roped Name Import to U.S. rts only):  t of Receipt of Materials me	EN HANDLING MATERIA  Teby declare that the contents of the in proper condition for transport ac conform to the terms of the attach d in 40 CFR 262.27(a) (if I am a lar	is consignment are full coording to applicable led EPA Acknowledgm rge quantity generator)  Signature  Export from U.S.  Signature	nternational and nation of Consent. or (b) (if I am a sma	cribed above bonal governmen	by the proper shintal regulations.		, and are clas prent and I	ssified, pac am the Printth Day	ma y
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10/21/2013 011241005JJK 10/21/2013 011241007JJK drum\_wgt

drum\_wgt\_uom

50,360.00 LBS 48,520.00 LBS

49.44 TONS

### ATTACHMENT E

Non-hazardous Waste Manifests and Landfill Weight Report

<b>A</b>	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAC002743078	2 Page	800-6	Response Pho		4. Waste Tra		nber	ine	
	ter make of the vice of the same	RAMIREZ		23	ite Address (if o	N ROAL		SS)		0	
	6. Transporter 1 Company Nam	e HOR	ALO GALL				U.S. EPA ID N	Number Li	000177	733	
	7. Transporter 2 Company Nam	TRANSPORTATION INO				· ·	U.S. EPA ID N	HPM0731	3632		
	7. Transporter 2 company stand	THE WAY I'M					0.0.2.77.2.1	<b>Tallibo</b> l			
	8. Designated Facility Name an RECOLOGY 6426 HAY R VACAVILLE	THAY RD				-	U.S. EPA ID I	Number 0982042	475		
	Facility's Phone: 70	07-678-4718			10. Container	- T	<u> </u>	12.100			
No.	9. Waste Shipping Name	e and Description	4		T	Type	11. Total Quantity	12. Unit Wt./Vol.			
GENERATOR -	NON HAZAR	RDOUS SOILS		e e e e e e e e e e e e e e e e e e e	1	DT	18	Y	4		
- GEN	2.			*							
	3.						5				
	4.			1		T T					
	WEAR ALL APPE		that the contents of this consignm	nent are fully and ac	curately describ	ped above l	by the proper sh	/8 ipping name	e, and are classifie	井 <u></u> 1	ed,
	Generator's/Offeror's Printed/Ty		idition for transport according to	Signature	mai anu nationa	i governine	eritai regulations		Month	Day	Year
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Take .	Transporter Signature (for expo				Date leaving	U.S.:	- AU		,		
)RTE	Transporter 1 Printed/Typed Na		100	Signature					Month	Day	Year
TRANSPORTER	Transporter 2 Printed/Typed Na	PW C		Signature	Commission	may proper place that the state of the state			Month	Day	Year
TRA	Transportor 2 Timod Typod No.										1001
A	17. Discrepancy		2	•		i	- NV				(
	17a. Discrepancy Indication Sp	ace Quantity	↑Туре		esidue Reference Num	ber:	Partial Rej	ection		Full Reject	ion
FACILITY	17b. Alternate Facility (or Gene	rator)	ing in the second				U.S. EPA ID	Number			
8	Facility's Phone: 17c. Signature of Alternate Fac	ility (or Generator)				201221	1		Month	Day	Year
DESIGNATED											
- DE											
M.		or Operator: Certification of receipt of ma	aterials covered by the manifest of		tem 17a						V
1	Printed/Typed Name	- police		Signature			7		Month	Day	Year

30.100

, T	NON HAZADIONE	1. Generator ID Number	2. Page 1 of	3. Emergency Response	Phone	4. Waste T	racking Nun	nber		
1	NON-HAZARÓOUS WASTE MANIFEST	CAC002743078	-F-T	800-938-1477						
	5. Generator's Name and Maili	ng Address		Generator's Site Address	(if different the	nan mailing addr	ess)			
	FERNANDO	RAMIREZ	and the second of	23836 SAK	LAN ROA	ND G				
		AN STREET DISCO, CA 94124 USA		HAYWARD	CA 945	45 USA				
		15-197-0724								
1			i a fai		1999	U.S. EPA ID	Number			
Ш	DEMNESTE	TRANSPORTATION INC.	unver Tru	Kune		C	AD98251	3832		
	7. Transporter 2 Company Nar	me				U.S. EPA ID		ally near regarden		
								*		
11	8. Designated Facility Name a	nd Site Address		10000	1.00	U.S. EPA ID	Number			
	RECOLOG	Y HAY RD				CA	D992042	475		
П	6426 HAY I	RD E, CA 95887 USA								
11		07-678-4718								
				10. Conta	iners	11. Total	12, Unit			
1	9. Waste Shipping Nam	ne and Description		No.	Туре	Quantity	Wt./Vol.			٠
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2	NON HAZA	RDOUS SOILS		1	DT	18	Y			
R				(6), <sup>27</sup>						
GENERATOR	2.		**			V			Text - 2	
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	3.		2		n.					
					-					
	4.			8		×				
						P.				
	13. Special Handling Instruction	ons and Additional Information								A
	WASTE PROFIL	LE NUMBER: 5907 DENE	ESTE JOB NUMBER: DI	813472		1				
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			1,		/					
8	14. GENERATOR'S/OFFERO	DR'S CERTIFICATION: I hereby declare that	the contents of this consignment a	are fully and accurately des	scribed above	by the proper s	shipping nam	e, and are classifie	d, packag	ged,
		rded, and are in all respects in proper conditi			ional governi	nental regulation	ns.	Month	Day	Year
	Generator's/Offeror's Printed/	Typed Name		gnature	11/2	1		I a d	9. ( )	/ e
V	A Chamatianal Chiamanta	DUNATHIKE L		MANAN	100			1101	01	()
INT	15. International Shipments	Import to U.S.	Export from							
-	Transporter Signature (for exp			Date leav	ring U.S.:			100		-
TRANSPORTER	16. Transporter Acknowledgm Transporter 1 Printed/Typed I		Sic	gnature				Month	Day	Year
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NSP	Transporter 2 Printed/Typed I		Sie	gnature				Month	Day	Year
RA	Transporter 2 Trintour Typeu T	vanio	1	J. 1414.5				1 1		1
-	17 Diograpanou									
1	17. Discrepancy 17a. Discrepancy Indication S	Space								
П	17a. Discrepancy indication c	Quantity	L Type	Residue		Partial F	lejection	· L.J.F	Full Reject	tion
Ш				Manifest Deference	Niversia au					
\ <u>'</u>	17b. Alternate Facility (or Ger	nerator)		Manifest Reference I	Number.	U.S. EPA II	D Number			
늘	, , , , , , , , , , , , , , , , , , ,	,								* '54
ÄCI	Facility's Phone:									
Ö	17c. Signature of Alternate Fa	acility (or Generator)	7		<del></del>		elydd i l	Month	Day	Year
ATE			Ĭ.					[]		
<u>8</u>			RESERVED TO THE RESERVED OF TH				Hay Ka	Marin prince	P/GFE	AY A TO
DESIGNATED FACILITY										
7										
	18 Designated Facility Owne	r or Operator: Certification of receipt of mate	rials covered by the manifest exce	pt as noted in Item 17a	1					
39	Printed/Typed Name	, or operator, continuation of receipt of filate		gnature	/			Month	Day	Year
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1									100	11

				<u>k</u>	A grande		-	
$\Lambda$	NON-HAZARDOUS	Generator ID Number	2. Page 1 of	3. Emergency Resp	onse Phone	4. Waste T	racking Numl	ber
1	WASTE MANIFEST	CAC002743078	1	800-838-1	477			78
H	5. Generator's Name and Mail	ing Address		Generator's Site Ad	dress (if different the	nan mailing addr	ess)	
11	FERNANDO		Some State of the	A.			000)	-
Н		AN STREET			SAKLAN ROA			
П	SAN FRANC	CISCO, CA 94124 USA		HAYVV	ARD, CA 945	40 USA		
		15-197-0724	[					
	6. Transporter 1 Company Na					U.S. EPA ID	Number	
Ш						U.S. LFA ID	Nullipei	
	DENBESTE	TRANSPORTATION INC					AD982513	632
Ш	7. Transporter 2 Company Na	me		1,	10	U.S. EPA ID	Number	
						100		
	O. Danianatad Facility Manage	nd Olto Address	<u> </u>		GAW <sup>1</sup>	ILC EDAID	Number	
	8. Designated Facility Name a					U.S. EPA ID	Number	
	RECOLOG 6426 HAY I					CA	D9920424	75
		E, CA 95607 USA				Ĩ		
	Facility's Phone:	07-678-4718					1	
П	9. Waste Shipping Nan	no and Description		10. 0	Containers	11. Total	12. Unit	
	9. Waste Shipping Nan	ne and Description		No.	Type	Quantity	Wt./Vol.	
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품		RDOUS SOILS						
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GENERATOR				'S				
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	10 Cassial Handling Instruction	ons and Additional Information						
	13. Special Hariding matracit	ons and Additional Information			100			
	WASTE PROFIL	E NUMBER: 5907 DEN	IBESTE JOB NUMBER: DI	13472	/ a			
					1/10	7		
	WEAR ALL APP	ROPRIATE PPE WHEN HAND	LING MATERIAL	The	1/ 504			11-3
				61	1 2			41)
					(			
	14. GENERATOR'S/OFFERO	DR'S CERTIFICATION: I hereby declare the	at the contents of this consignment a	re fully and accurate	ly described above	by the proper s	hipping name.	and are classified, packaged.
	marked and labeled/placa	rded, and are in all respects in proper con-	dition for transport according to applic	able international an	d national governr	nental regulation	S.	, p
4	Generator's/Offeror's Printed/			nature	) //			Month Day Year
1	1 EPRIMI	GRAMIRLI	· · · · · · · · · · · · · · · · · · ·	- 1	0 00017	P		1012/113
V	V V V V V V V	MUN AMIKAL		1100	MUG	2		100112
INT	15. International Shipments	Import to U.S.	Export from	U.S. Port	of entry/exit:	-		
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too or the same	†6. Tránsporter Acknowledgm		- transmit the	And the second second	The second of	7		
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SPC	WIAH 18	182111	(		And the last transmission of the last of t	The state of the second second second second second	19	10 86 3
N.	Transporter 2 Printed/Typed N	Name	Siç	inature			all the same	Month Day Year
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A	17. Discrepancy	. 7						
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	* 4							
1			<del>- The same of the</del>	Manifest Refere	ence Number:			
7	17b. Alternate Facility (or Ger	nerator)				U.S. EPA II	Number	
⊒								
A	Facility's Phone:							
9		polity (or Congretor)						Month Day Year
1	17c. Signature of Alternate Fa	acility (or Generator)					will.	Monut Day real
A							Wille.	뭐하는 학교 교육 때문 없이 모르다고
DESIGNATED FACILITY						4		
ES						* 6		
0								
	18. Designated Facility Owner	r or Operator: Certification of receipt of ma	terials covered by the manifest excep	ot as noted in Item 17	7a		1	
1	Printed/Typed Name			nature	-	1	****	Month Day Year
4	(	10-11	I com	Company		8	NA THE REAL PROPERTY AND ADDRESS OF THE PERSON OF	1014413

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAC002743078	2. Page 1 of	3. Emergency Respons		4. Waste T	racking Nun	nber
	5. Generator's Name and Mailin FERNANDO 1210 GILMA SAN FRANC	RAMIREZ	***************************************	Generator's Site Addres 23836 SAI HAYWARI	KLAN ROA	ID.	ress)	
	donorator o i morio.	15-197-0724				II C EDAID	Number	*
	6. Transporter 1 Company Nar	TRANSPORTATION INC. M	ILLAN TKU	Culb		U.S. EPA ID		2622
	7. Transporter 2 Company Nar	ne	I C CAN			U.S. EPA ID	AD98251 Number	3032
	8. Designated Facility Name at RECOLOGY 6426 HAY F	Y HAY RD RD		172		U.S. EPA ID	Number .D982042	475
		E, CA 95687 USA 07-678-4716				1		
	9. Waste Shipping Nam			10. Con	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR -	1. NON HAZAI	RDOUS SOILS		1	DT	19	, Y.	
GENE	2.	,				-		
	3.							
	4.		,			i.	4	
	WEAR ALL APPLIES 14. GENERATOR'S/OFFERS	ROPRIATE PPE WHEN HANDLE  R'S CERTIFICATION: I hereby declare that	the contents of this consignment	are fully and accurately de	o8	by the proper si	hipping name	e, and are classified, packaged,
V	marked and labeled/placar Generator's/Offeror's Printed/T	ded, and are in all respects in proper conditi yped Name AAAAAA2222222222222222222222222222222	Si	cable international and na	utional governm	nental regulation	S	Month Day Year
INT	15. International Shipments	Import to U.S.	Export from		entry/exit:	1 No. 12 A		
-	Transporter Signature (for exporter Acknowledgme		and the second s	Date lea	ving U.S.:	eranga samuran	141000	
ORTE	Transporter 1 Printed/Typed N		Si L	gnature				Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed N	ame	Si	gnature	gandinante de la companya del companya del companya de la companya		·	Month Day Year
Ā	17. Discrepancy							
	17a. Discrepancy Indication Sp	Dace Quantity	Туре	Residue  Manifest Reference	Number	Partial Re	ejection	Full Rejection
ACILITY -	17b. Alternate Facility (or Gene	erator)		Manilest neierence	Number	U.S. EPA ID	Number	
DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Alternate Fac	cility (or Generator)	- 4-		1 y 0		8.	Month Day Year
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		or Operator: Certification of receipt of mater	·	*11*2				
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A	NON-HAZARDOUS 1.	Generator ID Number	2. Page 1 or	<ol><li>Emergency Response</li></ol>	Phone	4. Waste Tra	acking Nur	mber	2
TΙ	WASTE MANIFEST	CAC002743078	1.	800-838-1477	7	i			
	5. Generator's Name and Mailing A	ddraes		Generator's Site Address	s (if different th	an mailing addre	55)		
11	FERNANDO RA		h <sub>dec</sub>			_	55,		
П	1210 GILMAN			23836 SAK					
		CO, CA 94124 USA		HAYWARD	), CA 945	45 USA			
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1	6. Transporter 1 Company Name	101-012-7				U.S. EPA ID N	lumber		
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		ANSPORTATION INC					D98251	3632	
Ш	7. Transporter 2 Company Name	No. of the last of				U.S. EPA ID 1	Number		
	SARTE	Rodan							
1	8. Designated Facility Name and S					U.S. EPA ID I	Jumber		
	RECOLOGY H	AY RD						ATE	
П	6426 HAY RD					CAL	982042	4/3	
11	VACAVILLE, C	A 95687 USA							
		878-4718	*			1			
	Tability 5 Thoric.		16	10. Conta	ainers	11. Total	12. Unit		
	<ol><li>Waste Shipping Name an</li></ol>	nd Description				Quantity	Wt./Vol.		
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	13. Special Handling Instructions a	and Additional Information							
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	marked and labeled/placarded	and are in all respects in proper condition for transpo	or this consignment ar	e fully and accurately de this international and nat	tional governm	ental regulations	ipping nam	e, and are diassilled	J, packageu,
	Generator's/Offeror's Printed/Type	- Company and the second secon		nature	dona governi	onia rogulationo		Month	Day Year
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7	15. International Shipments	Import to U.S.	Export from U	.S. Port of e	ntry/exit	É			
INT'L	Transporter Signature (for exports				ving U.S.:	¥		8	
_	16. Transporter Acknowledgment of			n/8)					1140
TRANSPORTER	Transporter 1 Printed/Typed Name	The state of the s	Sign	nature /	10			Month	Day Year
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A	Transporter 2 Printed/Typed Name		Sign	nature O				Month	Day Year
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7	17a. Discrepancy Indication Space		and desirable but agent being the first of the agent	- Company					
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		<b>/</b>		Manifest Reference	Number:				inv
1	17b. Alternate Facility (or Generate	or)			100	J⊌S. EPA ID	Number		
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Š	Facility's Phone:					1		y with Mi	Proceedings of
9	17c. Signature of Alternate Facility	(or Generator)	9		/	<u></u>	_	Month	Day Year
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	NON-HAZARDOUS	1. Generator ID Number	2. Page of	3. Emergency Response	Phone	4. Waste Ti	racking Nun	nber
T	WASTE MANIFEST	CAC002743078		800-838-1477		on melling and the	2001	
	5. Generator's Name and Mailir FERNANDO 1210 GILMA	RAMIREZ		Generator's Site Address 23936 SAK	LAN ROA	D	ess)	
	SAN FRANC	ISCO, CA 94124 USA	1	HAYWARD	, CA 945	45 USA		
	Generator's Phone: 41 6. Transporter 1 Company Nam	5-197-0724 ne	- 1		- A Parth	U.S. EPA ID	Number	
		TRANSPORTATION INC	Sably Iru	Acking .		C	AD98251	3632
	7. Transporter 2 Company Nam					U.S. EPA ID	Number	· = = 1 / 1 / 1
	Designated Facility Name an	d Site Address				U.S. EPA ID	Number	
	RECOLOGY 6428 HAY R	HAY RD				CA	D982042	475
		CA 95687 USA				2		
	9. Waste Shipping Nam	e and Description		10. Conta		11. Total Quantity	12. Unit Wt./Vol.	
	1.	<del></del>	T	No.	Туре	Quantity	VVI./ VOI.	
GENERATOR		RDOUS SOILS		*	DT	18	Y	
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li						7		
	4.						-	
Ш	13. Special Handling Instructio	ns and Additional Information						
П	WASTE PROFIL	E NUMBER: 5907 DENBI	ESTE JOB NUMBER: D	B13472		1		
	A.	ROPRIATE PPE WHEN HANDLII		CC	99/	115		#6
ŀ		5 = 1 3 6 1/15 6		)\	1/	No consider	9-En	-29461
	14. GENERATOR'S/OFFERO marked and labeled/placar	R'S CERTIFICATION: I hereby declare that to ded, and are in all respects in proper condition	pe contents of this consignment in for transport according to appli	are fully and accurately des cable international and nat	scribed above ional governm	by the proper s nental regulation	hipping nam s.	e, and are classified, packaged,
-	Generator's/Offe or's Printed/T			gnature Conv	uits	,		Month Day Year
INT'L	15. International Shipments	Import to U.S.	Export from	U.S. Port of er	ntry/exit:			
	Transporter Signature (for exp			Date leav	ring U.S.:	7		
EB.	16. Transporter Acknowledgme Transporter 1 Printed/Typed N		Si	gnature	/-			Month Day Year
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TRANSPORTER	Transporter 2 Printed/Typed N	ame	360	gnature		- 0	III e	Month Day Year
A	17. Discrepancy	7,					2	
	17a. Discrepancy Indication S	Quantity	Type	Residue		Partial R	ejection	Full Rejection
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È	17b. Alternate Facility (or Gen	erator)	11670			U.S. EPA ID	) Number	
ACIL	Facility's Phone:					1		1 370 000
DESIGNATED FACILITY	17c. Signature of Alternate Fa	cility (or Generator)	· · I		e			Month Day Year
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		or Operator: Certification of receipt of materia						March D. V
1	Printed/Typed Name	1/16	S	ignature				Month Day Year

Δ	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emerge	ncy Response	Phone	4. Waste T	racking Nun	nber
	WASTE MANIFEST	CAC002743078		41	800	7-838-1477				The same and have bridge a market for
	5. Generator's Name and Mailin			A.84	Generator'	s Site Address	(if different th	an mailing addr	ess)	
	FERNANDO 1210 GILMA		- 37			23836 SAK				
	SAN FRANC	CISCO, CA 94124 USA		î	1	HAYWARD	, CA 945	45 USA		and the second s
	Generator's Phone: 4  6. Transporter 1 Company Nan	15-197-0724						U.S. EPA ID	Number	
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+	7. Transporter 2 Company Nan	TRANSPORTATION INC				7		U.S. EPA ID	AD98251: Number	3832
	Sabie	Trucking 7	RI/	5	913	4/76	199	Ī		1985
	8. Designated Facility Name ar	nd Site Address					- 1	U.S. EPA ID	Number	1 1
1	RECOLOG' 8426 HAY F							CA	D982042	475
		E, CA 95697 USA								
		07-678-4718						-		1
	9. Waste Shipping Nam	ne and Description			-	10. Conta		11. Total Quantity	12. Unit   Wt./Vol.	
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OR		RDOUS SOILS				5.		50.7		
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u.,						a a				
	13. Special Handling Instruction	ns and Additional Information			-, -					
	WASTE PROFIL	E NUMBER: 5907 DENBEST	TE JOB NUI	MBER: DE	313472		1			S 28
П	WEAR ALL APP	ROPRIATE PPE WHEN HANDLING	MATERIAL			1	1/2			# 7
						7/	100			
	14 CENEDATOD'S/OFFEDO	R'S CERTIFICATION: I hereby declare that the c	ontonto of this o	onoignment o	ro fully and	accurately dea	arihad abaya	by the proper of	hinning nome	and are algorified peckaged
	marked and labeled/placar	ded, and are in all respects in proper condition fo								s, and are classified, packaged,
	Generalor's/Offeror's Printed/T	A second		Sig	nature		1571			Month Day Year
V	15. International Shipments	OKAMIRIZ		0	7.01	ONW	09			10 2115
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-	Transporter Signature (for exp. 16. Transporter Acknowledgme			0		Date leav	ing U.S.:		<u> </u>	
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A	17. Discrepancy									
	17a. Discrepancy Indication Sp	Quantity	□ Туре			Residue		Partial Re	ejection	Full Rejection
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>	17b. Alternate Facility (or Gene	erator)	*		Ivianiie	est Reference N	number:	U.S. EPA ID	Number	. 4
듲										10000
FA	Facility's Phone:		2 -					-		
TED	17c. Signature of Alternate Fac	The state of the s								Month Day Year
ANE		18			-	***				
DESIGNATED FACILITY										
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	18. Designated Facility Owner	or Operator: Certification of receipt of materials c	overed by the m	anifest excep	t as noted i	in Item 17a			A second	
	Printed/Typed Name	2/-			nature					Month Day Year
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Δ	NON-HAZARDOUS	Genérator ID Number	2. Page 1 of	3. Emergency Response	e Phone	4. Waste Tr	acking Nur	nber		
TL	WASTE MANIFEST	CAC002743078	1. 1.	800-838-147						
	5. Generator's Name and Mailing Address  FERNANDO RAMIREZ 1210 GILMAN STREET SAN FRANCISCO, CA 94124 USA  Constant Physics   Address   Generator's Site Address (if different than mailing address)  23836 SAKLAN ROAD HAYWARD, CA 94545 USA									
	Generator's Phone: 4 6. Transporter 1 Company Nar	15-197-0724 me			127	U.S. EPA ID	Number			
		FRANSPORTATION-INC	Sahie 7	v K		1	AD98251	3832		
	7. Transporter 2 Company Na					U.S. EPA ID				
					9		-			
	8. Designated Facility Name a			U.S. EPA ID	Number					
RECOLOGY HAY RD 6426 HAY RD							D982042	2475		
		E, CA 95687 USA				ĺ				
	Facility's Phone: 7	07-678-4718		10. Cont	ainers	11. Total	12. Unit			
	9. Waste Shipping Nan	ne and Description		No.	Туре	Quantity	Wt./Vol.			
GENERATOR -	1. NON HAZA	RDOUS SOILS	at .	1	от	18	Y			
- GENE	2.	7		2		-				
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	13. Special Handling Instruction	ons and Additional Information				1//	140	7427528		
	WASTE PROFIL	LE NUMBER: 5907 DEN	BESTE JOB NUMBER: D	B13472			11	down I was down ()		
	WEAR ALL APP	PROPRIATE PPE WHEN HAND	LING MATERIAL		qu	1/15	\	#8		
	14. GENERATOR'S/OFFERO	DR'S CERTIFICATION: I hereby declare the	at the contents of this consignment	are fully and accurately de	escribed above	by the proper sh	nipping nam	e, and are classified, packaged,		
1	marked and labeled/placa Generator's/Offeror's Printed/	rded, and are in all respects in proper con-		cable international and na	tional governn	nental regulations	3.	Month Day Year		
W	Generator s/Oneror s Printed/	10 RAMIRAZ		FleRomi	1571			101211/3		
4	15. International Shipments	LU NAVI NA		1 00114	Ensure .	79		100111		
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8	16. Transporter Acknowledgm	nent of Receipt of Materials				1	y"			
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IRA	Transporter 2 Trinica Typea T	tuno .	]	griaturo						
_	17. Discrepancy	100		1			,			
	17a. Discrepancy Indication S	space Quantity	Птуре	Residue	Number	Partial Re	ejection	Full Rejection		
>	17b. Alternate Facility (or Ger	nerator)		Manifest Reference	inumber:	U.S. EPA ID	Number	1-1-6		
늦		X X						Target .		
FA	Facility's Phone:					A		agran		
DESIGNATED FACILITY	17c. Signature of Alternate Fa	acility (or Generator)						Month Day Year		
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	18. Designated Facility Owner	r or Operator: Certification of receipt of ma	terials covered by the manifest exce	pt as noted in Item 17a		10				
	Printed/Typed Name	T //-		gnature				Month Day Year		
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<u>A</u>	NON-HAZARDOUS	Generator ID Number	2. Page 1 of	3. Emergency I	Response Phone	4. Waste T	racking Numl	per		
	WASTE MANIFEST	CAC002743078	1	1 600-838-1477				,		
	5. Generator's Name and Mailing Address  Generator's Site Address (if different than mailing address)  FERNANDO RAMIREZ									
	1210 GILM/	AN STREET			36 SAKLAN I	ROAD 94545 USA		-		
		CISCO, CA 94124 USA	w:	ESPS.S	ABLIEF, THE	59090 OGA				
	Generator's Phone: 4  6. Transporter 1 Company Nan	15-197-0724 ne	00			U.S. EPA ID	Number	· ·		
		-TRANSPORTATION INC	REMMER		·**	1 .	AD982513	632		
	7. Transporter 2 Company Nar		,	N-190-		U.S. EPA ID		50%		
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	Designated Facility Name ar	Number								
	RECOLOGY HAY RD CAD98204247							76		
1		E, CA 95987 USA 07-678-4718				1.		v		
			s <sup>1</sup>		10. Containers	11. Total	12. Unit			
	9. Waste Shipping Nam	ne and Description		1	No. Тур		Wt./Vol.	2 1		
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ATO	NON HAZAI	RDOUS SOILS			1 0	T 18	Y			
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	13. Special Handling Instructio	ns and Additional Information		T						
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	WEAR ALL APP	ROPRIATE PPE WHEN HAN	DUNG MATERIAL		-	555 7	1777	49		
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Н						<del> </del>				
		R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co						and are classified, packaged,		
	Generator's/Offeror's Printed/T		Ş	ignature	1	* 1	-,	Month Day Year		
V		ORAMIREZ		HIKO	MUG		.1	102/13		
INT'L	15. International Shipments	Import to U.S.	Export from		Port of entry/exit:					
-	Transporter Signature (for exp. 16. Transporter Acknowledgme				Date leaving U.S.					
TRANSPORTER	Transporter 1 Printed/Typed N		Si	gnature 🕢				Month Day Year		
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ANS	Transporter 2 Printed/Typed N	lame	Si	gnature				Month Day Year		
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4	17. Discrepancy Indication St	200								
	17a. Discrepancy Indication Sp	Quantity	Type	Res	due	Partial R	ejection	Full Rejection		
	3			Manifact D	eference Number:					
_	17b. Alternate Facility (or Gene	erator)	The state of the s	IVIALIIIUSI N	ACTORIOG INGHIDEL	U.S. EPA ID	Number			
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) FA	Facility's Phone:									
VTEC	17c. Signature of Alternate Fac	cility (or Generator)	hir					Month Day Year		
DESIGNATED FACILITY										
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		or Operator: Certification of receipt of r	naterials covered by the manifest exce	pt as noted in Iter	n 17a					
	Printed/Typed Name	V	Si	gnature	1		9	Month Day Year		
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Δ	NON-HAZARDOUS	Generator ID Number	1.	2. Page 1 of	3. Emergency Response	e Phone	4. Waste Tr	racking Nur	nber	
TI	WASTE MANIFEST	CAC002743078		1	800-838-1477					
	5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)									
	FERNANDO 1210 GILMA				23836 SAK					
Ш		ISCO, CA 94124 USA			HAYWARD	), CA 945	45 USA		*	
		5-197-0724							8	
	6. Transporter 1 Company Nam	e					U.S. EPA ID	Number		
	DENBESTE	TRANSPORTATION INC	14.					AD98251	3632	
	7. Transporter 2 Company Nam	ne e					U.S. EPA ID	Number		
	1	,	t.				×			
	8. Designated Facility Name an						U.S. EPA ID	Number		
	RECOLOGY 6426 HAY R						CA	D982042	475	
		, CA 95687 USA								
		7-678-4718								
b	9. Waste Shipping Name	e and Description			10. Conta	ainers	11. Total	12. Unit		
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A	NON HAZAF	RDOUS SOILS			2	DT	18	Y		
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	3.		CIE	AL CA.	P. L. C. M.					
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П	13. Special Handling Instructions and Additional Information									
	WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472									
	WASIE PROFILI	E NOMBER. 3901 DERE	ESIE JOB M	NADEK: DI	313472		. /			
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						2 11	1 20		- Council	
	14. GENERATOR'S/OFFEROR	R'S CERTIFICATION: I hereby declare that	the contents of this	consignment a	re fully and accurately de	scribed above	by the proper sh	nipping name	e, and are classified, packaged.	
П	marked and labeled/placard	ded, and are in all respects in proper condit	on for transport acc	ording to applic	cable international and nat	tional governm	ental regulations	3.	10 m	
	Generator's/Offeror's Printed/Ty	yped Name		Sig	nature	1101	0		Month Day Year	
.V	* XX NANOTE	KAMIKEZI	i entragantaria	-A	9.000	Wes			107115	
INT'L	15. International Shipments	Import to U.S.		Export from	U.S. Port of e	ntry/exit:	Same and the same			
	Transporter Signature (for expo		<del></del>		Date lea	ving U.S.:	1	<u>, , , , , , , , , , , , , , , , , , , </u>	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
EB	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na		A	Ci	matura	And well and desired the second distriction of the second distriction		¥ 1-3	Month Day Year	
OR	Transporter 1 Printed/Typed Na	ame/		310	gnature				Month Day Year	
NSP	Transporter 2 Printed/Typed Na		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	Qir	gnäture	and shell relay as a series of the second	State of the last		Month Day Year	
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-	17. Discrepancy			20	96-		-	-		
1	17a. Discrepancy Indication Sp	ace				-		73		
		Quantity	∟ Туре		L Residue		Partial Re	ejection	Full Rejection	
	0.11-3 .00-4				Manifest Reference	Numbor				
>	17b. Alternate Facility (or Gene	erator)	- Committee and the color and		Walliest Nelelelice	Nullibel.	U.S. EPA ID	Number		
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FACILITY	Facility's Phone:								요하는 하는 그는 이 100 cm 나라 게 보고 보고 15일 보고 16일 다 15일 다 15일	
ED	17c. Signature of Alternate Fac	ility (or Generator)							Month Day Year	
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		or Operator: Certification of receipt of mater	ials covered by the			-	h 1 3			
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	NON-HAZARDOUS	1. Generator ID Number	1	2. Page 1 of	3. Emergency Response	e Phone	4. Waste T	racking Nu	mber
1	WASTE MANIFEST	CAC002743078	E .	1	800-638-147				
	5. Generator's Name and Maili	The state of the s		1	Generator's Site Addres		nan mailing addr	ress)	,
	SAN FRANC	AN STREET CISCO, CA 94124 USA		1	23836 SAI HAYWARI				
	Generator's Phone: 4 6 Transporter 1 Company Nar	15-197-0724		L			LLO EDA ID	Al	
							U.S. EPA ID		
	7. Transporter 2 Company Nar	TRANSPORTATION INC	-				U.S. EPA ID	AD98251 Number	3632
								Number	
	8. Designated Facility Name ar						U.S. EPA ID	Number	
	RECOLOG 6428 HAY F						CA	D982042	475
		07-678-4718					1 2 -		
	9. Waste Shipping Nam	e and Description	100		10. Cont	ainers	11. Total	12. Unit	
					No.	Туре	Quantity	Wt./Vol.	
GENERATOR	1. NON HAZAI	RDOUS SOILS				DT	18	Y	
GENE	2.					*	****		
	A d	* *				*			
	3.								
					× 10				
	4.		46						
Ш									
		E NUMBER: 5907 DENBE: ROPRIATE PPE WHEN HANDLIN		umber: DB	13472	0)	79		#//
	14. GENERATOR'S/OFFEROR	R'S CERTIFICATION: I hereby declare that the ded, and are in all respects in proper condition	contents of this	s consignment are	fully and accurately des	scribed above	by the proper sh	nipping name	e, and are classified, packaged,
Ш	Generator's/Offeror's Printed/T		ior transport act		ature	ionai governm	ental regulations	S.	Month Day Year
1	FLRMANO			-	Fredom	11/10			11012/113
INT.L	15. International Shipments	Import to U.S.		Export from U.	C. F. P. L.	1			
Ż	Transporter Signature (for expo	orts only):			Date leav		3		, i i
띮	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na	· · · · · · · · · · · · · · · · · · ·	, design	0. 4				-	
TRANSPORTER	Transporter i Frinled/Typed Na	ane	40.	Sign	ature	Marine Autor As	The second line of the second li		Month Day Year
NSF	Transporter 2 Printed/Typed Na	ame	Charles	Signa	ature		1 1		Month Day Year
TRA	· · · · · · · · · · · · · · · · · · ·								Day real
Δ	17. Discrepancy			92	100				
	17a. Discrepancy Indication Sp	ace Quantity	Туре	v	Residue		Partial Re	jection	Full Rejection
	2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				Manifest Reference I	Number:		7 7	
<b>FACILITY</b>	17b. Alternate Facility (or Gene	rator)					U.S. EPA ID	Number	
FAC	Facility's Phone:					*	1		994
G	17c. Signature of Alternate Fac	ility (or Generator)				V 1/2	1		Month Day Year
DESIGNATED				NA STATE OF THE ST	Ran Daniela de la companya de la co				
- DES		1							
	18. Designated Facility Owner of	or Operator: Certification of receipt of materials	covered by the	manifest except a	as noted in Item 17a				
	Printed/Typed Name			Signa					Month Day Year
*		X	g.		Y				10 02 13

A	NON-HAZARDOUS	Generator ID Number	2. Page 1 of	3. Emer ency Response	Phone	4. Waste T	racking Nur	nber			
1	WASTE MANIFEST	WASTE MANIFEST CAC002743078 1 800-838-1477			7						
	5. Generator's Name and Mailing Address  Generator's Site Address (if different than mailing address)  FERNANDO RAMIREZ										
	1210 GILMA	N STREET		23836 SAK							
	SAN FRANCISCO, CA 94124 USA HAYWARD, CA 94545 USA										
	Generator's Phone: 41: 6. Transporter 1 Company Name	5-197-0724 e		· Admin		U.S. EPA ID	Number				
П	DENBESTE TRANSPORTATION INC CADREST 13632										
$\parallel$	7. Transporter 2 Company Name										
	SABTE TRUCKERS										
8. Designated Facility Name and Site Address U.S. EPA ID Numb RECOLOGY HAY RD											
Н	6426 HAY R					CA	D982042	475			
8		CA 95687 USA				1 -					
25		7-678-4718		10. Conta	ainers	11. Total	12. Unit				
	9. Waste Shipping Name	and Description		No.	Туре	Quantity	Wt./Vol.				
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ATO	NON HAZAR	DOUS SOILS		1	DT	18	Y				
GENERATOR	2.				-		-				
GE	2.										
						-					
	3.		-	***							
						+1					
İ											
	4.										
	13. Special Handling Instruction	s and Additional Information			1						
	WASTE PROFILE	E NUMBER: 5907 DENBES	TE JOB NUMBER: DE	313472			S-				
	MEAD ALL ADDE	TOPRIATE PPE WHEN HANDLING	MATERIAL					#17			
	WEAR ALL AFF	OFRIETE PPE WHEN REMULING	MINIENIAL					Company of the second			
			113					r			
П	14. GENERATOR'S/OFFEROR marked and labeled/placard	I'S CERTIFICATION: I hereby declare that the led, and are in all respects in proper condition for	contents of this consignment a or transport according to applic	re fully and accurately de able international and na	scribed above tional governn	e by the proper s nental regulatior	shipping nam ns.	e, and are classified, packaged,			
	Generator's/Offeror's Printed/Ty	ped Name		nature	1.			Month Day Year			
1	MANANDO	KAMIRIL		HVam	VES			102113			
INT'L	15. International Shipments	Import to U.S.	Export from t		ntry/exit:						
-	Transporter Signature (for expo 16. Transporter Acknowledgme			Date lea	ving U.S.:						
TRANSPORTER	Transporter 1 Printed/Typed Na	•	Sig	nature / i				Month Day Year			
S.	104 G1	1 an	13	At At	Ven			1/0/21/13			
ANS	Transporter 2 Printed/Typed Na	ame	Sig	inature			-	Month Day Year			
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4	17. Discrepancy		The state of the s	The state of the s							
	17a. Discrepancy Indication Spa	ace Quantity	Type 2 9	2 Residue		Partial R	lejection	Full Rejection			
		7		Manifest Reference	Number						
_	17b. Alternate Facility (or Gene	rator)	5,	Warmest Fictoriation	rambor.	U.S. EPA II	D Number	A 10 10 10 10 10 10 10 10 10 10 10 10 10			
FACILITY							appropriate the second	127.			
F	Facility's Phone:	W. 1 0	***************************************		/			Mouth Paul 7 Week			
AEC	17c. Signature of Alternate Fac	ility (or Generator)		1				Month Day Year			
SN											
DESIGNATED											
Ī											
	18. Designated Facility Owner	or Operator: Certification of receipt of materials				10		<u> </u>			
	Printed/Typed Name		0'.	nature	-	11 11		Monta Day Year			

	* 4. · ·									
Δ	NON-HAZARDOUS	Generator ID Number	2. Page	1 of 3. Emerge	ency Response P	hone	4. Waste Tr	acking Nur	mber	
TI	WASTE MANIFEST	CAC002743078		80	0-838-1477					
	5. Generator's Name and Mailir			Generator	's Site Address (it	f different th	an mailing addre	ess)	1	
Ш	FERNANDO	RAMIREZ			23838 SAKI.	AN DOA	ni s			
Ш	1210 GILMA				HAYWARD,					* ·
		ISCO, CA 94124 USA		T .						
		15-197-0724								
	6. Transporter 1 Company Nam	ne	0	. \	1		U.S. EPA ID	Number	4.1	
		TRANSPORTATION INC	1 6 0 14	Trul	lhi		C./	AD98251	3632	
	7. Transporter 2 Company Nam	ne					U.S. EPA ID	Number		
	· X									,
Ш	8. Designated Facility Name an	d Site Address			ă.		U.S. EPA ID	Number	-	
	RECOLOGY	HAY RD		12					4 **0#*	
	6426 HAY R	D					CA	D982042	4/5	
		, CA 95687 USA		*			T.			
	Facility's Phone: 70	77-878-4718		т-		т			r	
	9. Waste Shipping Name	e and Description	5.7		10. Contain	ers	11. Total	12. Unit		
		Tue .			No.	Туре	Quantity	Wt./Vol.		
œ	1.	**		* 40					100	
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Н				650		2				
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П	WASTE DOCEN	E NUMBER: 5907	DENBESTE JOB NUMBER	D012472	(	ar 5	964	1		1 1
П	AVOLC LIOLITI	E NUMBER, 3807	DEMDESTE JOB MUNDER	C DB13472		15%	164			1/10
	WEAR ALL APPR	ROPRIATE PPE WHEN H	UNDLING MATERIAL				an Taxa	_		II/
П	. A.	11 0 / 1	1 - 10 10 10	h 185	167	99	ST 1			-
	40)	It of Miles	SIC LEONORY 14	JOSON OF	2001					
	14. GENERATOR'S/OFFEROF	R'S CERTIFICATION: I hereby decla	are that the contents of this consignment	nent are fully and	accurately descr	ribed above	by the proper sh	ipping name	e, and are c	lassified, packaged,
Ш		led, and are in all respects in proper	condition for transport according to		ational and nation	nal governm	ental regulations			
II.	Generator's/Offeror's Printed/Ty	yped Name	0 - 13 - 1	Signature	2 /	lements d			, N	lonth Day Year
V	Y FRANANIE	LOKAMIR.	LL/ 5/01	FAX	anny	6		Ψ.	1	02115
INT	15. International Shipments	Import to U.S.	Export	from U.S.	Port of entry	v/exit:		1		
Ż	Transporter Signature (for expo	· · ·			/ Date leaving		1			V 1
Œ	16. Transporter Acknowledgme	nt of Receipt of Materials			1 1	1				
TRANSPORTER	Transporter 1 Printed/Typed Na	ame		Signature	11	//			N	onth Day Year
<u>S</u>	111 /2	E11		1	. //	1			1.1	0127113
NS	Transporter 2 Printed/Typed Na	ame	0.00	Signature	The same of the sa	Contract of the same	- Control of the cont		N	lonth Day Year
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	118		40	Manife	est Reference Nu	mber:			1.5.	
7	17b. Alternate Facility (or Gene	rator)	1/10	. 1	,		U.S. EPA ID	Number		
긎	-33-1		U							
FAC	Facility's Phone:								1	70000
유	17c. Signature of Alternate Fac	ility (or Generator)			-	- 1			N	onth Day Year
AT		g.,		1					3-1	
DESIGNATED FACILITY		TOTAL TOTAL				A STATE		F1 10 / 10 /	1	
ES										
۵.										
									S V.	No.
		or Operator: Certification of receipt of	f materials covered by the manifest	except as noted i	in Item 17a		/			* 1
	Printed/Typed Name	1		Signature			10		M	onth Day Year
<b>V</b>		1100 11/15	-	1	7		1	-	1 1/	01731

279.97

# Posted Weight Tags by Job Number

Date Range

2013/09/01,2013/10/31

DATE 20131022 20131022 20131022 20131022 20131022 20131022 20131022 20131022 20131022 20131022 20131022 20131022	ACCT # 52043	ACCOUNT NAME DENBESTE TRANSPORTATION	COMM SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC SOILC	<u>JOB #</u> 5907 al Tons	Tons 22.83 23.44 22.89 22.53 23.84 19.36 21.36 21.11 24.51 21.23 21.74	WT # 1258823 1258831 1258832 1258852 1258856 1258874 1258956 1258963 1258978 1258989	TRUCK # 7747 4858 5118 297 5673 8118 7846 5765 5118 8019 VP9159	CITY OF ORIGIN HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD HAYWARD
<u>DATE</u> 20131023 20131023	ACCT # 52043	ACCOUNT NAME DENBESTE TRANSPORTATION	COMM SOILC SOILC Tota	<u>JOB #</u> 5907 al Tons	<u>Tons</u> 14.86 20.27 35.13	<u>WT #</u> 1259029 1259031	TRUCK # 5673 8118	<u>CITY OF ORIGIN</u> HAYWARD HAYWARD

**Grand Total Tons** 

RECOLOGY HAY ROAD 6486 Hay Road Vacaville, CA 95687

Phone: (707) -678-4718 Truck: 5118

Customer: 52043/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258832

Het: 45780 LBS-

Materials & Services

SOILC/Soil Contaminated

RECOLOGY HAY FOAD 6426 Hay Road Vacaville, CO 95687 Phone: 67875 /678-4748 Customer: 52043/DENBESTE TEMNSPORT

Ticket: 1258823 Date: 16722/2013 Time: 11:23:33 - 11:23:46

Grosss 77520 LPS Scale

Materials & Services

HAY/Hayward/

SOILC/Soil Contaminated

Customer: 52043/DENBESTE TRANSPORT

Ticket 1258837 Date: 10/22/2013 Time: 11:25:44 - 11:38:03

Tare: 34120 LBS Scale

Origin Materials & Services Quantity

HAY/Hayward SOILG/Soil Contaminated. 22.53 Tons

Ticket: 1258831

Tare: 30100 LBS FreFare

RECOLOGY HAY ROAD 6426 Hay Rwad Vacaville, CA 95687 Phone: (707) -678-4718 Truck: 5673 Customer: 52843/DENBESTE TRANSPORT

Ticket: 1258852 Date: 10/22/2013 Time: 12:00:13 12:00:25

23.84 Tons

Phone: (70?)-678-4718 Truck: 8118

Ticket: 1258856 Date: 10/02/2013 Time: 12:11:05 - 12:11:25

Profile: 5907/Fernando Ramirez, 23836

Materials/Services Quantity
HAY/Hayward SOILC/Soil Contaminated 19.36

RECOLOGY HAY ESPAD

Ticket: 1258874 Date: 10/22/2013

Origin Materials & Services Quantity

Customer: \*52043/0ENBESTE TRANSPORT

Materials & Services

SUILC/Soil Contaminated

Quantity

21. 11 Tons

Ticket: 1258956

Time: 12:36:58 - 15:01:55

Joseph Snyder

RECOLOGY HAY ROAD RECOLOGY HAY ROAD 6426 Hay Road Vacaville, CA 95687 Phone: (707) -678-4718 Truck: VP91593

Ticket: 1258989

Time: 15:50:55 - 16:03:26

Materials & Services Quantity

HAY/Haxward Soll O/Soil Contaminated: 2 21.74 Tens (1)

Ticket: 1258963 Dato: 10/22/2013 Time: 15:07:42 - 15:97:53

0 . . 0

6426 Hay Road Vacaville, CR 95687

Ticket: 1258978 Date: 10/22/2013 Time: 15:48:55 - 15:49:69

Materials & Services Quantity
SOILC/Soil Contaminated 21,23

EDEN DR

Phohe: (707)-678-4718 fruck: 5673 Customer: 52843/DENEESTE TRANSPORT

Ticket: 1259029

Date: 10/23/2013 Time: 07:02:50 - 07:03:00

Original & Services

Ticket: 1259031 Date: 16/23/2013 Time: 67:04:14 - 07:04:29

Schie Tak

Origin

and fill

## ATTACHMENT F

Perimeter Air Monitoring Analytical Data Sheets and Chain of Custody Form



Mr. Tim Costello Tetra Tech GEO 2969 Prospect Park Drive #100 Rancho Cordova, CA 95670 September 19, 2013

Account# 24404

Login# L298706

Dear Mr. Costello:

Enclosed are the analytical results for the samples received by our laboratory on August 29, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

The samples submitted for Organochlorine Pesticides and PCBs were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Heidi Fruhlinger at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



September 19, 2013

Shelly Krause GALSON LABORATORIES 6601 Kirkville Road East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13081709

Reference: L298706

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 3 samples on August 30, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Wendy dunial

Wendy Lesniak

Client Services Representative Electronic signature authorized through password protection

Main: (248) 344.1770 Fax: (248) 344.2655

www.us.bureauveritas.com
1 of 11



#### **CASE NARRATIVE**

**CLIENT:** GALSON LABORATORIES

**Project:** L298706 **Work Order No** 13081709

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

See attached for statistical information.

Analytical Comments for Method TO-10\_S, sample -002A: Please note that the surrogate standard recoveries recovered below statistical limits. The results for sample 002A may be biased low.



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER W

Lab Number: 001A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

		Analytical Resu	lts	Reporting Limit	Test	Date
Analyte	(μg)	(mg/m³)	(ppm)		Method	Analyzed
4,4′-DDD	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Aldrin	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	< 0.5	< 0.00080		0.5	EPA TO-10A modified	09/09/2013
beta-BHC	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Chlordane	< 0.25	< 0.00040		0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	< 0.25	< 0.00040		0.25	EPA TO-10A modified	09/09/2013
delta-BHC	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Dieldrin	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endrin	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Heptachlor	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	< 0.05	< 0.000080		0.05	EPA TO-10A modified	09/09/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER W

Lab Number: 001A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

	<b>Analytical Results</b>			Reporting Limit	Test	Date
Analyte	(µg)	(mg/m³)	(ppm)	(µg)	Method	Analyzed
Toxaphene	<1	< 0.0016		1	EPA TO-10A modified	09/09/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER E

Lab Number: 002A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

		Analytical Resu	lts	Reporting Limit	Test	Date
Analyte	(μg)	(mg/m³)	(ppm)	(μg)	Method	Analyzed
4,4′-DDD	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Aldrin	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	< 0.5	< 0.0010		0.5	EPA TO-10A modified	09/09/2013
beta-BHC	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Chlordane	< 0.25	< 0.00051		0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	< 0.25	< 0.00051		0.25	EPA TO-10A modified	09/09/2013
delta-BHC	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Dieldrin	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endrin	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Heptachlor	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	< 0.05	< 0.00010		0.05	EPA TO-10A modified	09/09/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER E

Lab Number: 002A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

	<b>Analytical Results</b>			Reporting Limit	Test	Date
Analyte	(µg)	(mg/m³)	(ppm)	(μg)	Method	Analyzed
Toxaphene	<1	< 0.0020		1	EPA TO-10A modified	09/09/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER NE

Lab Number: 003A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

		Analytical Resu	llts	Reporting Limit	Test	Date
Analyte	(μg)	(mg/m³)	(ppm)	(μg)	Method	Analyzed
4,4′-DDD	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Aldrin	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	< 0.5	< 0.00069		0.5	EPA TO-10A modified	09/09/2013
beta-BHC	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Chlordane	< 0.25	< 0.00034		0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	< 0.25	< 0.00034		0.25	EPA TO-10A modified	09/09/2013
delta-BHC	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Dieldrin	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endrin	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Heptachlor	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	< 0.05	< 0.000069		0.05	EPA TO-10A modified	09/09/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L298706 Work Order No: 13081709

Sample Identification: PERIMETER NE

Lab Number: 003A Date Sampled: 8/28/2013

Sample Type: PUF Tube Date Received: 8/30/2013

Analyst: CPF Air Volume (L): 727

	Analytical Results			Reporting Limit	Test	Date
Analyte	(µg)	(mg/m³)	(ppm)	(μ <b>g</b> )	Method	Analyzed
Toxaphene	<1	< 0.0014		1	EPA TO-10A modified	09/09/2013

#### General Notes:

Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



## Statistical Data for Pesticides/PCBs by EPA TO-10A Bureau Veritas work order 13081709

4.4-DDD

Number of samples =109

Recovery % =101.05

Relative Standard Deviation % =11.20

4.4-DDT

Number of samples =110

Recovery % =93.80

Relative Standard Deviation % =8.96

Alpha-BHC

Number of samples =110

Recovery % =87.10

Relative Standard Deviation % =9.91

Beta-BHC

Number of samples =110

Recovery % =95.8

Relative Standard Deviation % =6.33

Dieldrin

Number of samples =110

Recovery % =93.35

Rolative Standard Deviation % =8.09

Endosulfan II

Number of samples =110

Recovery % =97.25

Relative Standard Deviation % =8.48

Endrin

Number of samples =110

Recovery % =96.15

Relative Standard Deviation % =7.23

Endrin ketone

Number of samples =110

Recovery % =103.85

Relative Standard Deviation % =7.75

4.4-DDE

Number of samples =110

Recovery % =98.60

Relative Standard Deviation % =7.91

Aldrin

Number of samples =110

Recovery % =89.3

Relative Standard Deviation % =13.33

Alpha-chlordane

Number of samples =110

Recovery % =95.30

Relative Standard Deviation % =6.89

delta-BHC

Number of samples =110

Recovery % =90.10

Relative Standard Deviation % =8.10

Endosulfan I

Number of samples =110

Recovery % =94.65

Relative Standard Deviation % =6.81

Endosulfan sulfate

Number of samples =110

Recovery % =101.35

Relative Standard Deviation % =8.44

Endrin aldehyde

Number of samples =110

Recovery % =90.75

Relative Standard Deviation % =8.54

gamma-BHC

Number of samples = 110

Recovery % =92.75

Relative Standard Deviation % =9.43



# Statistical Data for Pesticides/PCBs by EPA TO-10A (continued) Bureau Veritas work order 13081709

Gamma-chlordane Number of samples =110 Recovery % = 94.55 Relative Standard Deviation % =7.56

Heptachlor epoxide Number of samples =110 Recovery % =94.15 Relative Standard Deviation % =7.74

Toxaphene
Number of samples =84
Recovery % =99.60
Relative Standard Deviation % =5.15

Aroclor 1221
Number of samples =86
Recovery % =102.2
Relative Standard Deviation % =2.22

Aroclor 1248
Number of samples =86
Recovery % =94.0
Relative Standard Deviation % =19.86

Aroclor 1260
Number of samples =108
Recovery % =106.55
Relative Standard Deviation % =10.15

Heptachlor Number of samples =110 Recovery % =93.20 Relative Standard Deviation % =7.08

Methoxychlor Number of samples =110 Recovery % =96.95 Relative Standard Deviation % =8.27

Aroclor 1016
Number of samples =108
Recovery % =93.45
Relative Standard Deviation % =8.04

Aroclor 1242 Number of samples =86 Recovery % =94.50 Relative Standard Deviation % =19.58

Aroclor 1254
Number of samples =86
Recovery % =96.75
Relative Standard Deviation % =2.84

Page 12 of 13
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3
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PERIMETER W	8/28/2013	PUF	622.	Organochlo	rine Pesticides	EPA TO-10A	
✓ PERIMETER E	8/28/2013	PUF	488.	Organochlo	rine Pesticides	EPA TO-10A	
PERIMETER E	8/28/2013	PUF	488.	Polychlorina	ated Biphenyls	EPA TO-10A	
✓ PERIMETER NE	8/28/2013	PUF	727.	Organochlo	rine Pesticides	EPA TO-10A	
PERIMETER NE	8/28/2013	PUF	727.	Polychlorina	ated Biphenyls	EPA TO-10A	
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Mr. Tim Costello Tetra Tech GEO 2969 Prospect Park Drive #100 Rancho Cordova, CA 95670 November 08, 2013

Account# 24404 Login# L303238

Dear Mr. Costello:

Enclosed are the analytical results for the samples received by our laboratory on October 24, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

The samples submitted for Pesticides/PCBs were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Heidi Fruhlinger at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



November 07, 2013

Shelly Krause GALSON LABORATORIES 6601 Kirkville Road East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13101674

Reference: L303238

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 3 samples on October 25, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Ellen Coffman

Client Services Representative

Eller Offma

Electronic signature authorized through password protection

www.us.bureauveritas.com



#### **CASE NARRATIVE**

**CLIENT:** GALSON LABORATORIES

**Project:** L303238 **Work Order No** 13101674

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

See attached for statistical information.



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

Sample Identification: PERIMETER E

Lab Number:001ADate Sampled: 10/21/2013Sample Type:PUF TubeDate Received: 10/25/2013

		Analytical Resu	lts	Reporting Limit	Test	Date
Analyte	(μg)	(mg/m³)	(ppm)	(μg)	Method	Analyzed
4,4′-DDD	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
4,4´-DDE	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
4,4´-DDT	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Aldrin	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
alpha-BHC	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
alpha-Chlordane	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Aroclor 1016	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1221	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1232	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1242	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1248	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1254	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1260	< 0.5	< 0.00098		0.5	EPA TO-10A modified	10/30/2013
beta-BHC	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Chlordane	< 0.25	< 0.00049		0.25	EPA TO-10A modified	10/30/2013
Chlordane, Technical	< 0.25	< 0.00049		0.25	EPA TO-10A modified	10/30/2013
delta-BHC	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Dieldrin	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endosulfan I	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endosulfan II	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endosulfan sulfate	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endrin	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endrin aldehyde	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Endrin ketone	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
gamma-BHC	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
gamma-Chlordane	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Heptachlor	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Heptachlor epoxide	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013
Methoxychlor	< 0.05	< 0.000098		0.05	EPA TO-10A modified	10/30/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

Sample Identification: PERIMETER E

Lab Number: 001A Date Sampled: 10/21/2013
Sample Type: PUF Tube Date Received: 10/25/2013

	Analytical Results			Reporting Limit	Test	Date	
Analyte	(µg)	(mg/m³)	(ppm)	$(\mu g)$	Method	Analyzed	
Toxaphene	<1	< 0.0020		1	EPA TO-10A modified	10/30/2013	



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

Sample Identification: PERIMETER NE

Lab Number:002ADate Sampled: 10/21/2013Sample Type:PUF TubeDate Received: 10/25/2013

		Analytical Resu	ılts	Reporting Limit	Test	Date Analyzed
Analyte	(μg)	(mg/m³)	(ppm)	(μg)	Method	
4,4′-DDD	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
4,4´-DDE	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
4,4´-DDT	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Aldrin	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
alpha-BHC	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
alpha-Chlordane	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Aroclor 1016	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1221	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1232	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1242	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1248	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1254	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
Aroclor 1260	< 0.5	< 0.00090		0.5	EPA TO-10A modified	10/30/2013
beta-BHC	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Chlordane	< 0.25	< 0.00045		0.25	EPA TO-10A modified	10/30/2013
Chlordane, Technical	< 0.25	< 0.00045		0.25	EPA TO-10A modified	10/30/2013
delta-BHC	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Dieldrin	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endosulfan I	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endosulfan II	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endosulfan sulfate	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endrin	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endrin aldehyde	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Endrin ketone	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
gamma-BHC	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
gamma-Chlordane	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Heptachlor	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Heptachlor epoxide	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
Methoxychlor	< 0.05	< 0.000090		0.05	EPA TO-10A modified	10/30/2013
-						



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

Sample Identification: PERIMETER NE

Lab Number: 002A Date Sampled: 10/21/2013
Sample Type: PUF Tube Date Received: 10/25/2013

	Analytical Results			Reporting Limit	Test	Date
Analyte	(µg)	(mg/m³)	(ppm)	(µg)	Method	Analyzed
Toxaphene	<1	< 0.0018		1	EPA TO-10A modified	10/30/2013



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

**Sample Identification: PERIMETER EDEN** 

Lab Number: 003A Date Sampled: 10/21/2013
Sample Type: PUF Tube Date Received: 10/25/2013

		<b>Analytical Results</b>			Test	Date	
Analyte	(µg)	(μg) (mg/m³) (		Limit (μg)	Method	Analyzed	
4,4´-DDD	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
4,4´-DDE	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
4,4´-DDT	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Aldrin	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
alpha-BHC	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
alpha-Chlordane	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Aroclor 1016	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1221	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1232	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1242	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1248	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1254	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
Aroclor 1260	< 0.5	< 0.00094		0.5	EPA TO-10A modified	10/30/2013	
beta-BHC	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Chlordane	< 0.25	< 0.00047		0.25	EPA TO-10A modified	10/30/2013	
Chlordane, Technical	< 0.25	< 0.00047		0.25	EPA TO-10A modified	10/30/2013	
delta-BHC	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Dieldrin	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endosulfan I	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endosulfan II	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endosulfan sulfate	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endrin	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endrin aldehyde	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Endrin ketone	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
gamma-BHC	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
gamma-Chlordane	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Heptachlor	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Heptachlor epoxide	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
Methoxychlor	< 0.05	< 0.000094		0.05	EPA TO-10A modified	10/30/2013	
-							



# **ANALYTICAL RESULTS**

Client: GALSON LABORATORIES

Project: L303238 Work Order No: 13101674

Sample Identification: PERIMETER EDEN

Lab Number: 003A Date Sampled: 10/21/2013
Sample Type: PUF Tube Date Received: 10/25/2013

Analyst: CPF Air Volume (L): 530

	Analytical Results				Test	Date
Analyte	(µg)	(mg/m³)	(ppm)	(µg)	Method	Analyzed
Toxaphene	<1	< 0.0019		1	EPA TO-10A modified	10/30/2013

#### General Notes:

Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

<sup>&</sup>lt;: Less than the indicated reporting limit (RL).

<sup>--:</sup> Information not available or not applicable.



## Statistical Data for Pesticides/PCBs by EPA TO-10A Bureau Veritas work order 13101674

4.4-DDD

Number of samples =109 Recovery % =101.05

Relative Standard Deviation % =11.20

4.4-DDE

Number of samples =110

Recovery % =98.60

Relative Standard Deviation % =7.91

4,4-DDT

Number of samples =110 Recovery % =93.80

Relative Standard Deviation % =8.96

Aldrin

Number of samples =110

Recovery % =89.3

Relative Standard Deviation % =13.33

Alpha-BHC

Number of samples =110 Recovery % =87.10

Relative Standard Deviation % =9.91

Alpha-chlordane

Number of samples =110 Recovery % =95.30

Relative Standard Deviation % =6.89

Beta-BHC

Number of samples =110 Recovery % =95.8

Relative Standard Deviation % =6.33

delta-BHC

Number of samples =110 Recovery % =90.10

Relative Standard Deviation % =8.10

Dieldrin

Number of samples =110 Recovery % =93.35

Relative Standard Deviation % =8.09

Endosulfan I

Number of samples =110 Recovery % =94.65

Relative Standard Deviation % =6.81

Endosulfan II

Number of samples =110 Recovery % =97.25

Relative Standard Deviation % =8.48

Endosulfan sulfate

Number of samples =110 Recovery % =101.35

Relative Standard Deviation % =8.44

Endrin

Number of samples =110 Recovery % =96.15

Relative Standard Deviation % =7.23

Endrin aldehyde

Number of samples =110 Recovery % =90.75

Relative Standard Deviation % =8.54

Endrin ketone

Number of samples =110 Recovery % =103.85

Relative Standard Deviation % =7.75

gamma-BHC

Number of samples =110 Recovery % =92.75

Relative Standard Deviation % =9.43



### Statistical Data for Pesticides/PCBs by EPA TO-10A (continued) Bureau Veritas work order 13101674

Gamma-chlordane Number of samples =110 Recovery % = 94.55 Relative Standard Deviation % =7.56

Heptachlor epoxide Number of samples =110 Recovery % =94.15 Relative Standard Deviation % =7.74

Toxaphene Number of samples =84 Recovery % =99.60 Relative Standard Deviation % =5.15

Aroclor 1221 Number of samples =86 Recovery % =102.2 Relative Standard Deviation % =2.22

Aroclor 1248 Number of samples =86 Recovery % =94.0 Relative Standard Deviation % =19.86 Relative Standard Deviation % =2.84

Aroclor 1260 Number of samples =108 Recovery % = 106.55

Relative Standard Deviation % =10.15

Heptachlor Number of samples =110 Recovery % =93.20 Relative Standard Deviation % =7.08

Methoxychlor Number of samples =110 Recovery % =96.95 Relative Standard Deviation % =8.27

Aroclor 1016 Number of samples = 108 Recovery % =93.45 Relative Standard Deviation % =8.04

Aroclor 1242 Number of samples =86 Recovery % =94.50 Relative Standard Deviation % =19.58

Aroclor 1254 Number of samples =86 Recovery % =96.75

Please note that there are not enough data points to provide statistical information for Aroclor 1232, chlordane or technical chlordane.

<b>2:</b> :		BV - Novi	Report To	Shelly K	rause	Invoice To	Jeanne G	lisson	
GALSON Check if change			Galson La	boratory		Galson Laboratory			
LABORATORIES of address			6601 Kirkv	ille Road		6601 Kirkvil	Marine Company of the		
6601 Kirkville Rd		Client? yes		East Syracuse		4	East Syracuse, NY 13057		
East Syracuse, NY 13057- Tel: 315-437-5227	9672	no 🗆	Phone No.	888-432	-5227	Phone No.			
888-432-LABS(5227)						Fax No.	315-437-	0571	
Fax: 315-437-0571 www.galsonlabs.com		10000000000						200	
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PERIMETER NE 10/21/201			PUF	556.	Polychlor	rinated Biphenyls	EPA TO-10A	1	
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COMMENTS:									
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**Please provid	de an uncerta	inty statement in a	ccordance with AIH	IA LQAP policy document S	ection 2A.5.4.3.	Need results by 11/08	1/13. Rush charges are not a	authorized.**	
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