

A Report Prepared For:

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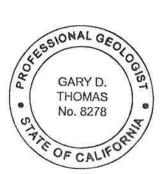
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Alameda County Environmental Health

SUBSURFACE INVESTIGATION AND SOIL REMEDIATION REPORT 4600-4700 COLISEUM WAY OAKLAND, CALIFORNIA

JULY 16, 2009



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1.0 INTRODUCTION

This report has been prepared by PES Environmental, Inc. (PES), on behalf of Mr. John Weber to document recently completed subsurface investigation and soil remediation activities conducted at 4600-4700 Coliseum Way, Oakland, California (the Site or subject property). The Site location is shown on Plate 1. Mr. Weber is the owner of the subject property.

The soil remediation activities were conducted in accordance with the document titled Corrective Action Plan, 4600-4700 Coliseum Way, Oakland, California (PES, 2008b) (CAP). The CAP was submitted to the Alameda County Department of Environmental Health Services (ACDEH) for review under the terms of the Alameda County Environmental Cleanup Oversight Program. The CAP was prepared to address remediation of soil impacted with volatile organic compounds (VOCs), specifically 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethane (1,1-DCA). Approval of the CAP was provided by ACDEH staff in a letter dated March 13, 2009 letter¹; a copy of which is presented in Appendix A. In that letter, ACDEH also requested that additional confirmation soil sampling be conducted in an area of red-stained soil that was previously excavated to evaluate whether the soil with elevated concentrations of metals was sufficiently delineated and remediated. The previous excavation in the area of the red-stained soil was conducted in 2003 (Kleinfelder, Inc. [Kleinfelder], 2003). During a telephone conversation with Mr. Jerry Wickham of the ACDEH in March 2009, PES agreed to advance 23 shallow borings to evaluate whether the soil with elevated concentrations of metals in the previously excavated area of red-stained soil was sufficiently delineated and remediated. A map showing the proposed boring locations and associated sample depths agreed upon during the telephone conversation was sent to Mr. Wickham by email on March 23, 2009.

The following sections in this report include:

- Section 2.0, Background presents a description of the Site and its history, the local geology and hydrogeology, and provides a summary of environmental conditions on adjacent properties;
- Section 3.0, Subsurface Investigation in Area of Red-Stained Soil discusses the methods and results of the subsurface investigation in the area of red-stained soil;
- Section 4.0, Soil Remediation Activities discusses the soil remediation activities conducted at the Site, including verification soil sample results, excavation backfilling activities, and waste management, characterization, and disposal;
- Section 5.0, Discussion presents a discussion of the recently completed subsurface investigation and soil remediation activities, and conclusions and recommendations

¹ Alameda County Department of Environmental Health Services (ACDEH), 2009. *Subject: SLIC Case No. RO0002995 and Geotracker Global ID T10000000883, 4600-4700 Coliseum Way, Oakland, CA 94601.* March 13.

based upon the results of on-Site investigations and remediation activities conducted at the Site; and

• Section 6.0, References – presents references utilized in the development of this report.

2.0 BACKGROUND INFORMATION

2.1 Site Description

The 2.7-acre Site is comprised of two adjacent rectangular parcels with addresses of 4600 and 4700 Coliseum Way that are identified by Alameda County Assessor's Parcel Number (APN) 34-2293-3 and 34-2293-4-2, respectively.

Currently buildings at the Site consist of two smaller metal-framed warehouse buildings in the western portion of the Site and a large warehouse building in the central portion of the Site. The former shed that was removed during the remediation activities discussed in Section 4.0 was located near the northeastern property boundary (Plate 2). The Site is located in a commercial/industrial area within the City of Oakland and County of Alameda, California. As shown on Plates 1 and 2, the Site is bounded to the northeast by an abandoned railroad spur and further northeast by a property owned by Learner Investment Company, to the southeast by Superior Plaster Casting Property, to the southwest by Coliseum Way, and to the northwest by 46th Avenue. Vehicle access to the property is via Coliseum Way.

According to the United States Geological Survey (USGS) *Oakland East, California* Quadrangle 7.5-minute series topographic map, the Site is situated at an elevation of approximately 10 feet above mean sea level. The topography on the Site and in the vicinity is relatively flat. The closest water body is San Francisco Bay, located approximately ½-mile to the southwest.

2.2 Site History

According to a Phase I Environmental Site Assessment (ESA) prepared by AEI Consultants (AEI) in October 2007 (AEI, 2007), the metal-framed warehouses in the western portion of the Site were constructed between 1912 and 1925 for use as storage facilities for feed and coal. According to AEI, these warehouses have historically been used for various operations including wooden molding manufacturing, insulation manufacturing, and cabinet making. Currently, the warehouses are being used for storage of miscellaneous equipment and construction supplies (ERAS Environmental, Inc. [ERAS], 2007). The abandoned railroad spur shown on Plate 2, was present at the Site from at least 1925 through 1969.

The large warehouse building in the central portion of the Site was constructed in 1968 for use as a metal manufacturing facility by Bostrom Bergen Metal Manufacturing (Bostrom) (AEI, 2007). Bostrom occupied the Site, including the two metal-framed warehouses from at least 1969 through 2000. The large warehouse is currently occupied by Cable Moore, Inc.

Cable Moore, Inc. manufactures and distributes wire rope, cable, rigging, and safety and construction equipment.

2.3 Local Geology and Hydrogeology

According to ERAS Environmental, Inc. (ERAS, 2007), the Site is underlain by "fine-grained alluvial sediment that represents distal deposits of alluvial fans that were deposited by rivers draining upland surfaces" (ERAS, 2007). Also beneath the Site are clay layers referred to as Bay Mud. Several hundred feet of Bay Mud deposits are likely present in the vicinity of the Site. Beneath the Bay Muds are sedimentary and metamorphic rocks of the Jurassic-aged Franciscan Formation (ERAS, 2007). Groundwater was encountered at depths ranging between 4 and 15 feet below ground surface (bgs) during an on-Site investigation conducted by PIERS in January 2008 (PIERS, 2007).

Soil beneath the northeastern and eastern portions of the Site investigated by PES in June and July 2008 consists of dark grayish brown to dark brown gravelly silts to a depth ranging between 1.5 to 3 feet bgs (PES, 2008a). Soil below this material generally consists of a yellowish brown to very dark gray clay, clay with silt, or silty clay to 19 feet bgs, the maximum depth investigated. This material contains discontinuous, approximately 0.5-foot thick interbeds of sand and clayey sand and 1- to 3-foot thick interbeds of clay with gravel and gravelly clay. Wet soil was first encountered at depths ranging between 9 and 12 feet bgs. However, groundwater may be under confining conditions because water stabilized at depths between 7 and 8 feet bgs (PES, 2008a).

As discussed in Section 2.4 below, shallow groundwater in the vicinity of the Site is impacted by regional total petroleum hydrocarbon (TPH) and VOC plumes that are currently being addressed under the oversight of ACDEH. Studies conducted on nearby properties indicate that the underlying groundwater is brackish (Harding ESE, Inc. [Harding ESE], 2002; LFR, Inc. [LFR], 2008). Therefore, groundwater in this area is not considered a drinking water source.

2.4 Summary of Environmental Conditions on Adjacent Properties

Properties adjacent to the Site including the Superior Plaster Castings Property, PG&E Property, Former AAA Equipment Company, and Learner Investment Company Property. The positions of these properties relative to the subject property are shown on Plate 1. A summary of the environmental conditions on these adjacent properties is presented below.

Superior Plaster Castings Property: This property is located southeast and immediately adjacent to the subject Site (Plate 1) and appears to be hydraulically down- and cross-gradient from the Site with respect to the direction of groundwater flow. The primary contaminants detected at this property include petroleum hydrocarbons (TPH quantified as gasoline [TPHg] and quantified as diesel [TPHd], respectively), xylenes, and VOCs. VOCs present

on the Superior Plaster Castings Property appear to be limited to chlorobenzene (CB), 1,2-dichlorobenzene (1,2-DCB), 1,3-DCB and 1,4-DCB. 1,1,1-TCA and its breakdown products were not detected in groundwater samples collected on this property (ERAS, 2000). Work at this property is ongoing and is currently under the oversight of the ACDEH.

PG&E Property: This property is located southeast from the subject property and immediately adjacent to the Superior Plaster Castings Property (Plate 1) and appears to be hydraulically down-and cross-gradient from the subject property with respect to the direction of groundwater flow. This property is the location of a general construction yard and a former gas holder tank that was removed in May 1990. Seven groundwater monitoring wells are located on the PG&E Property. The wells were sampled in November 2007 and VOCs detected were primarily CB and DCBs. Fuel hydrocarbons are also present in the groundwater at the PG&E Property. In April 2007, 1,1,1-TCA was detected in one groundwater sample (OW-1) but at a low concentration of 0.6 micrograms per liter (μ g/L) and 1,1-DCA was also detected at a maximum concentration of 12 μ g/L (Geomatrix Consultants, Inc. [Geomatrix], 2007), each well below its applicable California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) risk-based Environmental Screening Levels (ESLs).

Former AAA Equipment Company: This property is located east-southeast of the Site and appears to be hydraulically cross-gradient from the Site (Plate 1) with respect to the direction of groundwater flow. TPHd and TPH quantified as motor oil (TPHmo) have been detected on the property. Polynuclear aromatics (PNAs) and polychlorinated biphenyls (PCBs) have also been detected on this property. VOCs detected in soil and groundwater appears to be limited to CB and DCBs (Harding ESE, 2002).

Learner Investment Company Property: This property is located north and northeast of the subject Site and appears to be hydraulically up-gradient from the Site (Plate 1) with respect to the direction of groundwater flow. This property is being actively investigated and is under oversight by the ACDEH. Previous sampling conducted on this property indicates that it is affected by petroleum hydrocarbons (TPHd and TPHmo), PCBs, benzene, toluene, ethylbenzene, and xylenes (BTEX), and metals.

The most recent investigation at this property that we are aware of was conducted by LFR in April 2008 and involved advancing 12 borings (LFR, 2008). Soil samples at depths ranging from 1 to 5 feet bgs were collected from each boring and grab groundwater samples were collected from four borings. Four of the borings (LP-4, LP-5, LP-6 and LP-13) were located near the boundary northeast of the subject Site; grab groundwater samples were collected from borings LP-6 and LP-13. The summary below focuses on the results these four borings.

The soil samples collected from borings LP-4, LP-5, LP-6 and LP-13 were analyzed for TPHd, TPHmo, VOCs, metals, and PCBs and the groundwater samples were analyzed for TPHd, TPHmo, VOCs, and metals. In summary, TPHd, TPHmo, PCBs, acetone and methylene chloride were detected in the soil samples.

LFR indicated that most of the metals concentrations in soil were within range of naturally occurring metals concentrations in the San Francisco Bay Area. However, according to LFR, six metals (arsenic, cadmium, copper, lead, nickel, and zinc) were detected at elevated concentrations. The maximum concentrations of these metals in the samples collected from borings LP-4, LP-5, LP-6 and LP-13 were arsenic at 12 milligram per kilogram (mg/kg), cadmium at 10 mg/kg, copper at 100 mg/kg, lead at 1,000 mg/kg, and zinc at 2,800 mg/kg.

TPHd, TPHmo, 1,1-DCA, 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), and bromodichloromethane were detected in the grab groundwater samples.

2.5 Summary of Previous On-Site Environmental Investigations

Numerous environmental investigations have been conducted previously on the subject property. Please refer to the CAP for a summary of these previous investigations.

3.0 SUBSURFACE INVESTIGATIONS IN AREA OF RED-STAINED SOIL

The following sections present the field activities and sampling methods (Section 3.1), analytical methods (Section 3.2), and results for the subsurface investigations (Section 3.3) conducted by PES in March, April, and May 2009.

3.1 Field Activities and Sampling Methods

The objective of PES' subsurface investigation conducted on March 27, 2009 was to collect soil samples in the within and around the previously excavated red-stained soil area to evaluate whether the soil with elevated concentrations of metals was sufficiently delineated and remediated. The approximate extent of this previously excavated red-stained soil area is shown on Plate 3. During this phase of work PES advanced 23 borings (B-16 through B-38; Plate 3) in the northeastern portion of the Site. As discussed in Section 3.2, select soil samples from 16 of the 23 borings were analyzed for lead and zinc. The remaining samples were placed on hold pending the results for these samples. The drilling and sampling activities were conducted with oversight by a licensed California Professional Geologist.

During the second phase of work conducted on April 3, 2009, PES completed near surface soil samples at locations B-37 (4/3/2009), B-38 (4/3/2009), B-39, and B-40 (see Plate 3 for locations). These samples were collected to further assess the lateral extent of elevated zinc in the vicinity of boring B-31.

Between April 10 and May 20, 2009, PES collected near surface soil samples at locations B-41 through B-50 (see Plate 3 for locations). These samples were collected to assess the lateral extent of elevated lead and zinc associated with red-stained soil present in the vicinity of the former shed.

3.1.1 Pre-Field Activities

Drilling permits were obtained from the Alameda County Public Works Agency (ACPW) prior to advancing borings B-16 through B-38. A copy of the permit is included in Appendix B. PES contacted Underground Service Alert (USA) more than 48 hours before beginning drilling activities to locate and mark utilities at the Site and C. Cruz Sub-Surface Locators, Inc. (C. Cruz) of Milpitas, California, cleared the sampling locations for subsurface utilities. Additionally, PES coordinated with Environmental Control Associates, Inc. (ECA) of Aptos, California, a licensed drilling contractor possessing a valid C-57 water well contractor's license issued by the State of California, to schedule the sampling event. PES' existing Site-specific Health and Safety Plan, which complied with applicable federal, California Occupational Safety and Health Administration (OSHA), and Title 29 CFR 1910.120 guidelines, was used for the sampling activities.

3.1.2 Sampling Methods

ECA utilized a direct-push drilling rig to advance each borings to a depth of 4 feet bgs. Continuous soil cores were collected from the borings, which were advanced using single-walled direct-push tooling equipped with a clear acetate liner. PES observed the borehole drilling and prepared a lithologic log for the continuously cored borings using the Unified Soil Classification System (USCS). Lithologic logs are presented in Appendix C.

Downhole direct-push sampling equipment were cleaned via high pressure, hot water wash prior to use and between borings. Upon completion of sampling activities, each borehole was grouted to the surface with cement grout under the oversight of an ACPW inspector.

Near surface soil samples were obtained by using a new, disposable hand trowel to loosen and collect the soil sample. The near surface soil samples were collected in either a stainless-steel liner or laboratory-supplied glass jar.

Sample containers from all phases of work were labeled to indicate project location, job number, boring number, sample number, and time and date collected. The samples were delivered under chain of custody protocol to Curtis & Tompkins, Ltd. (C&T) in Berkeley, California, which is a California state-certified laboratory for chemical analysis performed. The laboratory analytical reports provided by C&T are presented in Appendix D.

3.2 Analytical Methods

Select soil samples from borings advanced during the first phase of work were delivered to C&T under chain-of-custody protocol and analyzed for zinc and lead using U.S. Environmental Protection Agency (USEPA) Test Method 6010B. The remaining soil samples from the first phase of work were placed on hold pending the results of the initial samples. Based on the results of the initial soil samples analyzed from the borings, the deeper sample from boring B-31 was analyzed for zinc only. The four near surface soil samples collected in

the vicinity of boring B-31 were also analyzed for zinc only and the remaining near surface samples collected in the vicinity of the former shed were analyzed for zinc and lead.

3.3 Subsurface Investigation Results

The following sections present the results of the subsurface investigation including a discussion of the subsurface conditions (Section 3.3.1) and the soil analytical results (Section 3.3.2).

The soil analytical results are presented in Table 1 and Plate 4. The C&T laboratory analytical reports and chain of custody forms are presented in Appendix D. A discussion of the results from PES' subsurface investigation is presented in Section 5.0.

The soil results presented on Table 1 and Plate 4 were compared to the RWQCB risk-based ESL concentrations for shallow soil (less than 3 meters [9.84 feet] bgs) in a commercial/industrial setting where groundwater is not a current or potential drinking water source. ESL concentrations for soil are provided in the RWQCB's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008). The ESLs were developed by the RWQCB to be protective of human health and the environment for potentially complete exposure pathways.

3.3.1 Subsurface Conditions

In general, soil beneath the portion of the Site investigated by PES in March through May 2009, consisted of yellowish brown to dark grayish brown silty gravel and silt with gravel to a depth ranging between 0.5 to 2.75 feet bgs (Appendix C). These uppermost soils were generally thicker in the eastern and western portions of the investigation area and thinner (i.e., up to 1-foot thick) in the vicinity of the former shed. Soil below this material generally consists of a dark grayish brown to dark greenish gray clay, clayey silt, or silty clay to 4 feet bgs, the total depth investigated.

3.3.2 Soil Analytical Results

As shown in Table 1 and Plate 4, lead and zinc were detected in every sample analyzed for these constituents. Samples results are summarized below for the: (1) previously excavated red-stained soil area; and (2) area of red-stained soil in the vicinity of the former shed.

3.3.2.1 Previously Excavated Red-Stained Soil Area

- Lead: Detected at concentrations ranging from 5.3 mg/kg (0.5 to 1.0 feet bgs sample from boring B-35) to 130 mg/kg (0.5 to 1.0 feet bgs sample from boring B-19); and
- Zinc: Detected at concentrations ranging from 25 mg/kg (1.0 to 1.5 feet bgs sample from boring B-26) to 1,300 mg/kg (0.5 to 1.0 feet bgs sample from boring B-31).

The concentration of zinc in the 0.5 to 1.0 feet bgs sample from boring B-31 was above its applicable commercial/industrial ESL (See Table 1 and Plate 4). However, the deeper sample collected at 1.5 to 2.0 feet bgs from this boring and the surrounding near surface samples collected subsequently all had concentrations of zinc below the applicable ESL (See Table 1 and Plate 4).

3.3.2.2 Red-Stained Soil Area in the Vicinity of the Former Shed

- Lead: Detected at concentrations ranging from 200 mg/kg (0 to 0.5 feet bgs sample from location B-43) to 2,800 mg/kg (0.75 to 1.0 feet bgs sample from location B-45); and
- Zinc: Detected at concentrations ranging from 410 mg/kg (0 to 0.5 feet bgs sample from location B-42) to 2,100 mg/kg (0 to 0.5 feet bgs sample from location B-41).

The concentration of lead and zinc at sample locations B-41, B-44, B-45, B-48, B-49, and B-50 and the concentration of zinc at sample location B-46 and B-47 were above the applicable commercial/industrial ESL (See Table 1 and Plate 4). However, as discussed in Sections 4.0 and 5.0, material associated with most of these sample locations was removed during excavation activities.

4.0 SOIL REMEDIATION ACTIVITIES

Marcor Environmental (Marcor) of Dublin, California, a HAZWOPER-trained contractor from Dublin, California, was retained by PES to conduct the soil remediation. Excavation of VOC-affected soil was described in PES' CAP. The excavation of the red-stained soil was conducted based on PES' observations and the laboratory analytical results of the subsurface investigations. Soil excavation was conducted at the Site to:

- Remove lead/zinc-affected red-stained surface soil (up to 1 foot thick) present in the vicinity of the former shed, including beneath the concrete floor slab of the former shed; and
- Remove shallow soil located beneath the footprint of the former shed that contained elevated concentrations of 1,1-DCA and 1,1,1-TCA.

Prior to conducting the excavation activities discussed below, the shed was removed by Mr. Weber. The concrete floor was removed by Marcor and managed with the under-lying red-stained soil because it was in contact with and had been affected by the underlying lead and zinc-affected red-stained soil.

As discussed in the CAP, the target soil cleanup goals for the remedial activities discussed below were conservatively established at the RWQCB risk-based ESL concentrations for shallow soil (less than 3 meters [9.84 feet] bgs) in a commercial/industrial setting where

groundwater is not a current or potential drinking water source. ESL concentrations for soil and groundwater are provided in the RWQCB's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008).

4.1 Preliminary Activities

4.1.1 Health and Safety

Prior to conducting remediation activities, a Site-specific HSP was prepared by Marcor to comply with 29 CFR 1910.120 and 8 CCR GISO 5192. The HSP addressed identification of hazards, hazard mitigation, safe work practices, and emergency response procedures for the project. Additionally, a HSP was prepared by PES for its personnel and activities to be conducted by PES. Health and safety tailgate meetings were performed prior to work activities in order to familiarize on-Site personnel with safety precautions and emergency procedures discussed in the HSP.

USA was contacted at least 48 hours prior to conducting remediation activities to schedule visits by public and private utility companies. Additionally, Marcor contracted with a private underground utility locating company to identify underground utilities within the proposed excavation area.

4.1.2 Engineering Evaluation

As shown on Plate 5, structural support features related to the overhead crane area that were present in the vicinity of the shed included: (1) concrete spread footing foundations along the northwest and southeast sides of the shed; and (2) support beam columns in each corner of the shed. A geotechnical engineering review was conducted to develop recommendations for safe excavation procedures. Treadwell & Rollo, Inc. (T&R), a geotechnical engineering firm located in Oakland, California, conducted the evaluation and provided recommendations for excavation sequencing that would be protective of the structural integrity of the foundations and support beam columns. The recommendations were presented to PES in an April 2, 2009 telephone conversation. T&R recommended that slot trenching be implemented perpendicular to the spread footing foundations to limit the length of the face of the foundations being exposed at any one time, and that the excavations be backfilled with controlled density fill (CDF). T&R recommended that the slot trenching be conducted as follows:

- Excavating two approximately 3-foot wide slot trenches between the spread footing foundations and then immediately backfilling these slot trenches with rapid set CDF to grade; and
- On the following day, excavate the remaining VOC-impacted soil between previously backfilled slots and the backfill this slot with rapid set CDF to grade.

T&R staff was present for excavation and backfilling activities.

4.2 Soil Excavation Activities

4.2.1 Excavation of Red-Stained Soil in the Vicinity of the Former Shed

Prior to excavating the lead- and zinc-affected red-stained soil in the vicinity of the former shed, Marcor removed the 12 by 20 foot, 3-inch thick, reinforced concrete floor of the former shed using a tire-mounted backhoe. The concrete was placed into plastic-lined roll-off bins and temporarily stored on-Site pending off-Site disposal.

Excavation the red-stained soil in the vicinity of the former shed was conducted by Marcor on April 9, 2009 and May 21, 2009 using a tire-mounted backhoe. The extent of the red-stained soil excavation was based on visual field observations and the lead and zinc soil analytical results for samples collected in the vicinity of the former shed, which were presented above in Section 3.3.2. The soil excavation was extended to the northeastern property boundary in the vicinity of samples B-45, B-49 and B-50. The excavated soil was placed into the same plastic-lined roll-off bins as the concrete and temporarily stored on-Site pending off-Site disposal. The extent of the lead and zinc-affected soil excavation, which varied between approximately 8 to 12-inches thick, is shown on Plates 3 and 4. Based on disposal information provided by Marcor, which is included in Appendix E, a total of approximately 54 tons of lead and zinc-affected concrete and soil were removed from the subject property and disposed off-Site.

4.2.2 Remediation of VOC-Affected Soil

4.2.2.1 Excavation and Backfilling Activities

Based on the results of previous investigations, soil affected with concentrations of 1,1-DCA and 1,1,1-TCA in excess of the respective target cleanup goals was excavated from an area having plan dimensions of approximately 228 square feet (Plates 3, 4, and 5). Soil was evaluated for the presence of VOCs at the time of excavation using a photoionization detector (PID). The excavation extended laterally to the edges of the former shed and vertically to an approximate depth of 5.5 feet bgs (Plates 3, 4, and 5). Groundwater was not encountered during excavation activities.

In accordance with T&R's recommendations, soil excavation conducted beneath the footprint of the former shed consisted of three slot trenches, which were oriented perpendicular to the spread footing foundations. The concrete removal, verification sampling (i.e., analytical results for verification samples are discussed in Section 4.2.3, below), and soil excavation and backfilling activities took place as follows:

• <u>April 8, 2009</u>: (a) Removed concrete pad; (b) excavated potholes for the collection of verification soil samples from the excavation sidewalls and bottom (eight samples total); and (c) placed pothole spoils back in excavations;

- <u>April 9, 2009</u>: Excavated two approximately 3-foot wide slot trenches between the spread footing foundations. The slot trenches extended to a depth of approximately 5.5 feet (based on the verification laboratory analytical results discussed in Section 4.2.3). These slot trenches were then backfilled with rapid set CDF to allow for excavation between the slots the following day; and
- <u>April 10, 2009</u>: Excavated the remaining VOC-impacted soil between previously backfilled slots. Backfilled slot trench with CDF to grade.

The excavated VOC-affected soil was temporarily stockpiled on-Site pending off-Site disposal. The soil was stockpiled on 30-mils plastic sheeting and covered using 10-mils plastic sheeting. Marcor secured the plastic sheeting as appropriate.

4.2.2.2 Verification Sampling

4.2.2.2.1 Verification Sampling Locations and Methodology

To confirm that the target soil cleanup goals were achieved, verification soil samples were collected from the excavation for laboratory analysis at the following locations, as shown on Plate 5:

- Sidewalls: At a depth of 3 to 3.5 feet bgs from each sidewall of excavation; and
- **Bottom:** From depths of 5 to 5.5 and 6 to 6.5 feet bgs at two locations on the bottom of the excavation.

Sample handling, labeling, documentation and chain of custody procedures were performed as described in the CAP. Soil samples from the sidewalls and bottom of the excavation were obtained using the backhoe bucket and Encore[®] soil sampling devices that sampled fresh, undisturbed soil. The Encore[®] soil samples were collected in accordance with USEPA Method 5035. Following sample collection, the sample containers were labeled for identification and immediately placed in a chilled, thermally insulated cooler containing "blue-ice" packs or bagged ice.

The verification soil samples were sent under chain-of-custody documentation to Torrent Laboratory, Inc. (Torrent) in Milpitas, California, which is a California state-certified laboratory for chemical analysis performed. The soil samples were analyzed for VOCs on the USEPA Test Method 8010 list using USEPA Test Method 8260B.

4.2.2.2.2 Verification Sample Laboratory Analytical Results

Excavation bottom and sidewall verification soil sample analytical results are summarized in Table 2 and graphically displayed on Plate 5. Copies of the laboratory analytical reports and chain-of-custody documentation are presented in Appendix D. The only VOCs detected in the verification samples were 1,1,1-TCA, 1,1-DCA, and 1,1-dichloroethene (1,1-DCE). The

maximum detected concentrations of 1,1,1-TCA (6,700 micrograms per kilogram [μ g/kg]), 1,1-DCA (105 μ g/kg), and 1,1-DCE (20.3 μ g/kg) in bottom and sidewall samples were below their target soil cleanup goals of 7,800, 1,900, and 4,300 μ g/kg, respectively.

4.3 Waste Management, Characterization, and Disposal

Sample handling, labeling, documentation and chain of custody procedures for waste characterization samples were performed as described in the CAP.

4.3.1 Lead/Zinc-Affected Soil

The concrete debris and soil generated during excavation activities associated with the lead/zinc-affected soil was placed directly into plastic-lined, covered soil bins pending characterization for off-Site disposal. During the subsurface investigation conducted in March 2009, a composite soil sample for waste characterization was collected. This sample was composited in the field and comprised: (1) red-stained soil from beneath the former shed; and (2) soil from borings in the vicinity of the former shed that contained lesser amounts of red-stained soil. This sample was analyzed for:

- Title 22 Metals using USEPA Test Methods 6010B and 7471 for mercury;
- Soluble Threshold Limit Concentration (STLC) for select metals (barium, chromium, copper, lead, and zinc) extracted by inductively coupled plasma using USEPA Test Method 3010A and analyzed by USEPA Test Method 6010B; and
- Toxicity Characteristic Leaching Procedure (TCLP) for select metals (barium, chromium, and lead) extracted by inductively coupled plasma using USEPA Test Method 3010A and analyzed by USEPA Test Method 6010B.

A copy of the laboratory analytical report and chain-of-custody documentation for this soil waste characterization composite sample (sample ID = COMP RED) is presented in Appendix D. Based on the analytical results for this sample, the concrete debris and soil were disposed off-Site as non-RCRA hazardous waste at the Kettleman Hills Hazardous Waste Facility in Kettleman City, California. As indicated on the disposal related information included in Appendix E, approximately 54 tons of concrete and lead/zinc-affected soil was disposed at this facility.

4.3.2 VOC-Affected Soil

The soil generated during excavation activities associated with the VOC-affected soil was temporarily stockpiled on-Site pending characterization for off-Site disposal. A four-point composite soil sample was collected from the stockpile for waste characterization purposes. This sample was analyzed for:

• VOCs using USEPA Test Method 8260B; and

• Title 22 Metals using USEPA Test Methods 6010B and 7471 for mercury.

A copy of the laboratory analytical report and chain-of-custody documentation for this soil waste characterization composite sample (i.e., sample ID = STOCK-1,2,3,4 COMPOSITE) is presented in Appendix D. Based on the analytical results for this sample, the soil was disposed off-Site as non-hazardous waste at the Forward Landfill in Manteca, California. As indicated on the disposal related information included in Appendix E, approximately 79.5 tons of VOC-affected soil was disposed of at this landfill.

5.0 DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

5.1 Discussion

5.1.1 Red-Stained Soil Areas

5.1.1.1 Previously Excavated Red-Stained Soil Area

Based on results of PES' March 27, 2009 subsurface investigation, it appears that excavation activities conducted in 2003 adequately removed the lead-impacted soil in the previously excavated red-stained soil area. As shown on Plate 4, the concentration of zinc in the 0.5 to 1.0 feet bgs sample from boring B-31 was above its applicable commercial/industrial ESL (See Table 1 and Plate 4). However, the deeper sample collected at 1.5 to 2.0 feet bgs from this boring and the surrounding near surface samples locations B-37 (4/3/2009), B-38 (4/3/2009), B-39, and B-40 all had concentrations of zinc below the applicable ESL (see Table 1 and Plate 4). These results indicated that a very small quantity (approximately 1 cubic yard) of soil contains concentrations of zinc in excess of the ESL. Based on the small quantity of zinc-impacted soil in the vicinity of boring B-31, PES recommended leaving the soil in-place and covering it with concrete, which would minimize the potential for human contact and infiltration of surface water. In electronic correspondence dated April 9, 2009, Mr. Wickham with the ACDEH concurred that leaving the soil in-place and capping the soil with concrete was acceptable.

5.1.1.2 Red-Stained Soil Area in the Vicinity of the Former Shed

Shallow soil sample results and field observations in the vicinity of the former shed revealed the presence of lead/zinc-affected red-stained soil. As indicated on Table 1 and Plate 4, shallow soil samples collected from locations B-41, B-44, B-45, B-46, B-47, B-48, B-49, and B-50 contained concentrations of zinc and/or lead above the applicable commercial/industrial ESL. Sample results in this area indicated that the maximum vertical extent of lead/zinc impacted soil extended to the top of the native soil found in this area. Therefore, the excavation was extended to the top of the native soil, which was encountered at a depth of approximately 8 to 12-inches bgs. The lateral limits of the excavation area shown on Plates 3 and 4 were based on sample results and visual observations confirming the presence or absence

of red-stained soil. In general, the thickness of red-stained soil decreased away from the former shed. No visibly red-stained soil was present in the location of samples B-49 and B-50.

As indicated on Table 1 and Plate 4, with minor exception, soil with concentrations of lead and/or zinc are in excess of the target cleanup goals was removed during excavation activities conducted on April 9, 2009 and May 21, 2009. The exceptions being the zinc-affected soil covered with concrete at boring B-31 and the lead- and zinc-affected soil encountered at borings B-49 and B-50. Based on the small quantity of lead/zinc-affected soil (less than one cubic yard) likely present in the vicinity of sample locations B-49 and B-50, the affected soil was left in-place and it is PES' understanding that this area will be capped with concrete. As discussed above, the concrete cover minimizes the potential for human contact and infiltration of surface water. Although the concentrations of lead and zinc in samples B-49 and B-50 exceed the respective ESLs, the concentrations are lower than the shallow soil gross contamination ceiling levels developed by the RWQCB for industrial/commercial properties (Table H-2) of 2,500 mg/kg for lead and zinc. The ceiling levels for gross contamination are intended to be protective against odor and other nuisance concerns, and limit overall degradation of soil quality (RWQCB, 2008). Use of the ceiling levels in shallow soil overlying groundwater that is not a drinking water source is appropriate.

5.1.2 Remediation of VOC-Affected Soil

Soil affected with concentrations of 1,1-DCA and 1,1,1-TCA in excess of the target cleanup goal was excavated from beneath the former shed in April 2009 in accordance with the approved CAP. The excavation extended laterally to the edges of the former shed and vertically to an approximate depth of 5.5 feet bgs (Plates 3, 4, and 5). Groundwater was not encountered during excavation activities.

Prior to excavating the VOC-affected soil, verification sidewall and bottom samples were collected to confirm the anticipated lateral and vertical extent of VOC-affected soil. As indicated on Table 2 and Plate 5, the only VOCs detected in the verification samples were 1,1,1-TCA, 1,1-DCA, and 1,1-DCE. The maximum detected concentrations of 1,1,1-TCA (6,700 μ g/kg), 1,1-DCA (105 μ g/kg), and 1,1-DCE (20.3 μ g/kg) in bottom and sidewall samples were below their target soil cleanup goals of 7,800, 1,900, and 4,300 μ g/kg, respectively. The laboratory analytical results indicated the VOC-affected soil with concentrations above the respective, applicable ESLs was successfully removed from the Site.

In accordance with T&R's recommendations, soil excavation conducted beneath the footprint of the former shed consisted of three slot trenches, which were oriented perpendicular to the spread footing foundations. The slot trenches were systematically backfilled with CDF.

5.2 Conclusions

Based on the previous investigation and remediation activities conducted at the Site, PES concludes the following:

- The Site has been adequately investigated;
- The source (lead/zinc-affected soil) of lead/zinc in excess of the target cleanup goals has been adequately removed from the Site. A small quantity of lead/zinc-affected present in the vicinity of boring B-31 and sample locations B-49 and B-50 was left in-place. The area in the vicinity of boring B-31 was subsequently covered with concrete. PES understands that the area in the vicinity of sample locations B-49 and B-50 will also be covered with concrete. The concrete cover minimizes the potential for human contact and infiltration of surface water. The concentrations of lead and zinc in the soil at these locations does not pose a significant threat to human health or the environment; and
- The source (VOC-affected soil) of 1,1-DCA and 1,1,1-TCA in excess of the target cleanup goals has been removed from the Site.

5.3 Recommendations

Based on the results of subsurface investigations conducted on the subject property, the successful remediation of the VOC and lead/zinc-affected soil, and in consideration of the above discussions and conclusions, PES considers the Site to be eligible for "No Further Action" status. The relatively low levels of VOCs and lead/zinc remaining in soil do not present a significant threat to human health or the environment, and do not warrant the commitment of client, regulatory, and natural resources that would be necessary to continue activities to address this matter. Accordingly, PES on behalf of John Weber, owner of the subject property, respectfully presents a request to the ACDEH, to grant case closure for the subject property.

6.0 REFERENCES

- AEI Consultants (AEI), 2007. Phase I Environmental Site Assessment, 4700 Coliseum Way, Oakland, California 94621. October 22.
- California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Revised May 2008).
- ERAS Environmental, Inc. (ERAS), 2000. Soil Remediation, 4800 Coliseum Way, Oakland, California, Project Number 00047A. June 26.

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- Geomatrix Consultants, Inc. (Geomatrix), 2007. Additional Investigation Work Plan, PG&E Oakland General Construction Yard, 4930 Coliseum Way, Oakland, California. November.
- Harding ESE, Inc. (Harding ESE), 2002. Environmental Investigation, 745 50th Avenue, Oakland, California. May 30.
- Kleinfelder, 2003. Confirmation Soil Sample Results, Oakland Facility, 4700 Coliseum Way, Oakland, California. June 26.
- LFR Inc. (LFR), 2008. Summary Report of Soil and Groundwater Investigation, Former Learner Investment Company Property, 768 46th Avenue, Oakland, California (SLIC Case RO0002478; Geotracker Global ID SLT2O150156). June 6.
- PES Environmental, Inc. (PES), 2008a. Site Investigation Report, 4600-4700 Coliseum Way, Oakland, California. September 18.
- PES, 2008b. Corrective Action Plan, 4600-4700 Coliseum Way, Oakland, California. September 23.
- PIERS Environmental Services, Inc. (PIERS, 2008). Limited Phase II Site Investigation Report of 4600-4700 Coliseum Way, Oakland, California. January 23.

TABLES

Table 1Lead and Zinc Soil Sample Analytical Results4600-4700 Coliseum WayRichmond, California

Location Identification	Sample Identification	Sample Depth (Feet bgs)	Sample Date	Lead (mg/kg)	Zinc (mg/kg)	Comments
B-16	B-16-0.5	0.5-1.0	3/27/2009	60	81	
B-17	B-17-0.5	0.5-1.0	3/27/2009	46	91	
B-19	B-19-0.5	0.5-1.0	3/27/2009	130	91	
B-21	B-21-0.5	0.5-1.0	3/27/2009	40	100	
B-22	B-22-1.0	1.0-1.5	3/27/2009	76	70	
B-24	B-24-0.5	0.5-1.0	3/27/2009	68	100	
B-25	B-25-1.0	1.0-1.5	3/27/2009	44	55	
B-26	B-26-1.0	1.0-1.5	3/27/2009	14	25	
B-27	B-27-1.0	1.0-1.5	3/27/2009	68	84	
B-28	B-28-1.0	1.0-1.5	3/27/2009	84	60	
B-30	B-30-0.5	0.5-1.0	3/27/2009	100	99	
B-31	B-31-0.5	0.5-1.0	3/27/2009	43	1,300	Material associated with this sample was cappe
D-31	B-31-1.5	1.5-2.0	3/27/2009	NA	190	
B-32	B-32-1.0	1.0-1.5	3/27/2009	37	72	
B-33	B-33-0.5	0.5-1.0	3/27/2009	79	70	
B-35	B-35-0.5	0.5-1.0	3/27/2009	5.3	62	
B-37	B-37-1.0	1.0-1.5	3/27/2009	17	61	
B-37 (4/3/2009)*	B-37-1.0	1.0-1.5	4/3/2009	NA	100	
B-38 (4/3/2009)*	B-38-1.0	1.0-1.5	4/3/2009	NA	180	
B-39	B-39-1.0	1.0-1.5	4/3/2009	NA	77	
B-40	B-40-1.0	1.0-1.5	4/3/2009	NA	96	
B-41	B-41-0	0-0.5	4/10/2009	1,900	2,100	Material associated with this sample was removed duri
B-42	B-42-0	0-0.5	4/10/2009	410	410	
B-43	B-43-0	0-0.5	4/10/2009	200	600	
B-44	B-44-1.0	0.75-1.0	5/14/2009	800	1,100	Material associated with this sample was removed duri
B-45	B-45-1.0	0.75-1.0	5/14/2009	2,800	1,700	Material associated with this sample was removed duri
B-46	B-46-1.0	0.75-1.0	5/14/2009	730	1,100	Material associated with this sample was removed duri
B-47	B-47-1.0	0.75-1.0	5/19/2009	410	710	Material associated with this sample was removed duri
B-48	B-48-1.0	0.75-1.0	5/19/2009	1,300	1,100	Material associated with this sample was removed duri
B-49	B-49-1	0.75-1.0	5/20/2009	1,600	1,400	Material associated with this sample was cappe
B-50	B-50-1	0.75-1.0	5/20/2009	900	870	Material associated with this sample was cappe
	Shallov	v (<3 meters b	ogs) Soil ESL ⁽¹⁾	750	600	

Notes:

bgs = Below ground surface

mg/kg = Milligrams per kilogram

NA = Not analyzed

* = Location ID mistakenly duplicated; added date to ID to differentiate between locations

(1) = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for commercial/industrial

land use where potentially impacted groundwater is not a current or potential drinking water resource.

- Results exceeding commercial/industrial ESLs are shaded

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uring excavation activities
uring excavation activities
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pped with concrete

Table 2 VOC Excavation Sidewall and Bottom Soil Sample Analytical Results 4600-4700 Coliseum Way Oakland, California

Excavation Area	Laboratory Sample ID	Sample Depth (feet bgs)	Date Collected	1,1,1-TCA (µg/kg)	1,1-DCA (µg/kg)	1,1-DCE (µg/kg)	Other VOCs (µg/kg)
	BS-N-5.0	5.0	4/8/2009	32.4	24.4	ND(9.80)	ALL ND
Bottom	BS-N-6.0	6.0	4/8/2009	143	105	20.3	ALL ND
Bollom	BS-S-5.0	5.0	4/8/2009	20.8	12.2	ND(8.80)	ALL ND
	BS-S-6.0	6.0	4/8/2009	24.5	19.2	ND(8.30)	ALL ND
North Sidewall	SW-N-3.0	3.0	4/8/2009	6,700 J	ND(1,500)	ND(4,500)	ALL ND
South Sidewall	SW-S-3.0	3.0	4/8/2009	5,450	ND(701)	ND(2,100)	ALL ND
East Sidewall	SW-E-3.0	3.0	4/8/2009	23.2	ND(8.30)	ND(8.30)	ALL ND
West Sidewall	SW-W-3.0	3.0	4/8/2009	117	78.5	ND(9.70)	ALL ND
Commercial/Industrial Soil ESL ⁽¹⁾			7,800	1,900	4,300	N/A	

Notes:

VOC = Volatile organic compound

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

bgs = Below ground surface

µg/kg = Micrograms per kilogram

ND(9.80) = Compound not detected at or above the indicated laboratory reporting limit

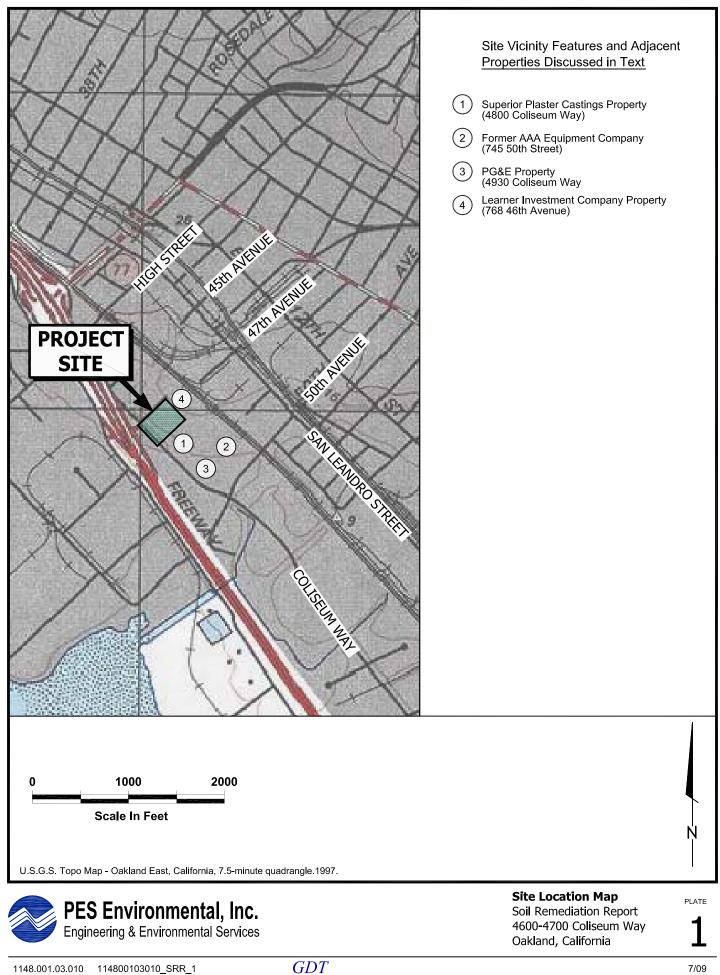
J = Result was between the method detection limit and the reporting limit, should be considered an estimated value

N/A = Not applicable

(1) = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL) for commercial/industrial land use where potentially impacted groundwater is not a current or potential drinking water resource.

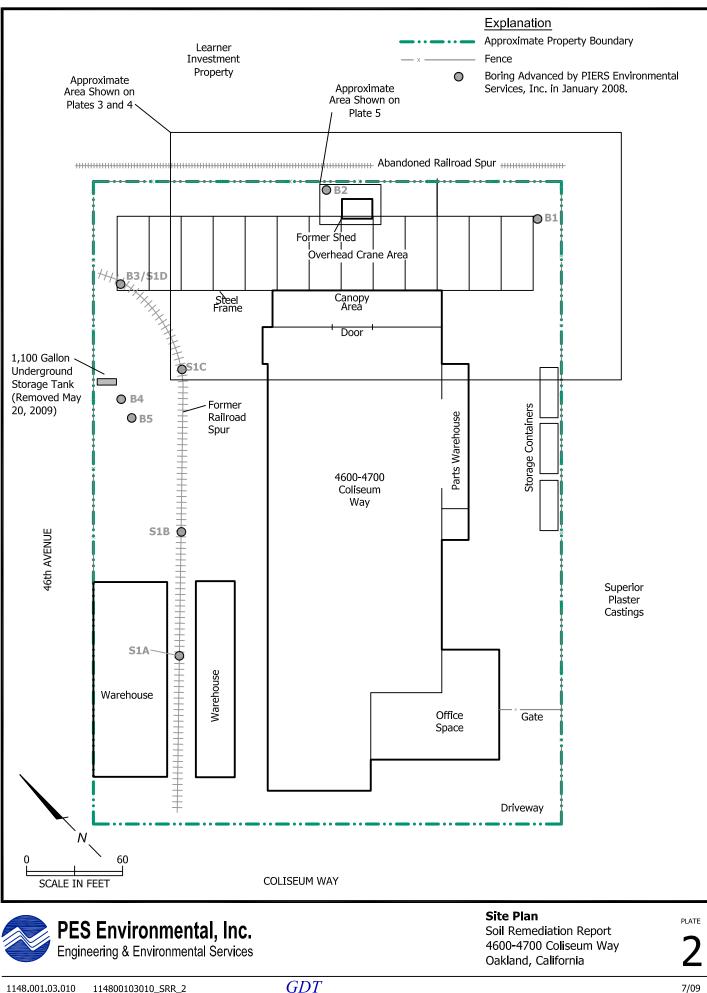
= Exceeds the commerical/industrial soil ESL

ILLUSTRATIONS



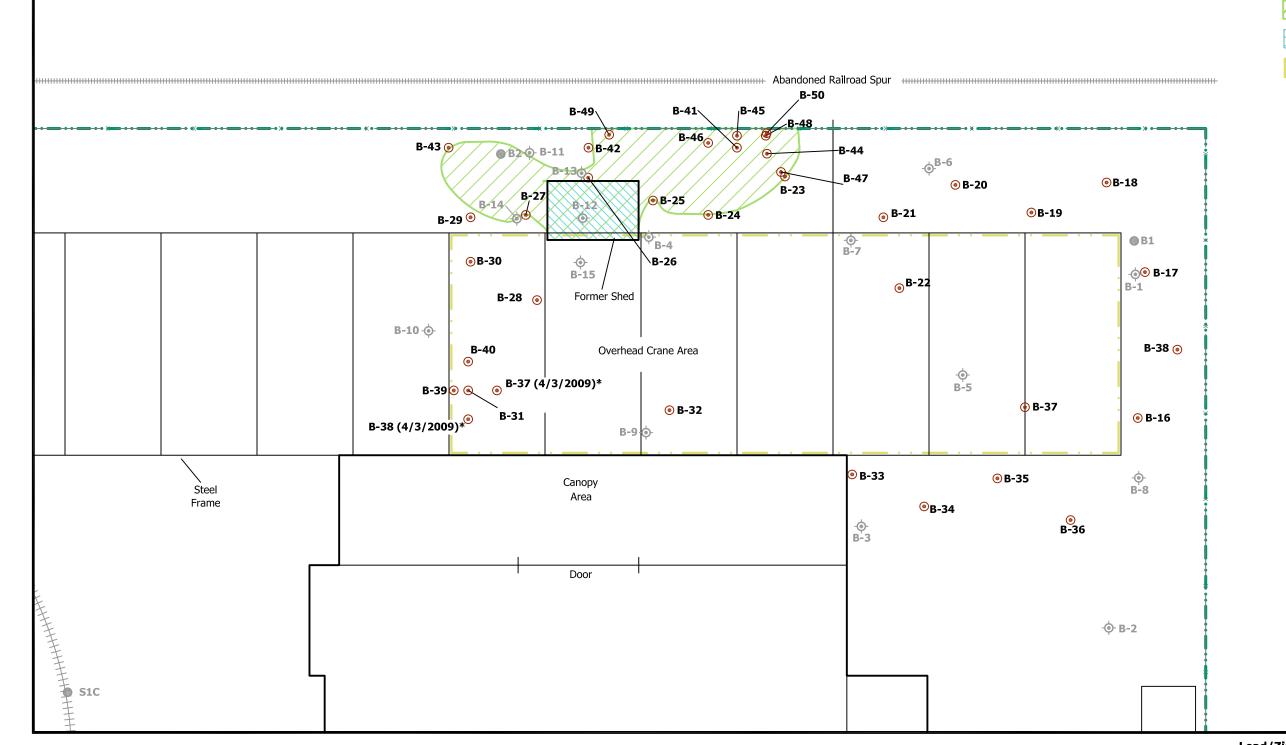
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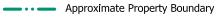
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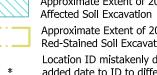


Explanation

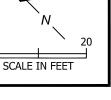


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- ۲ PES 2009 Sample Location
- -@-PES 2008 Boring Location
- Boring Advanced by PIERS Environmental Services, Inc. in January 2008.
- Approximate Extent of 2009 Lead/Zinc-Affected Soil Excavation
- Approximate Extent of 2009 VOC-Affected Soil Excavation
- Approximate Extent of 2003 Red-Stained Soil Excavation
- Location ID mistakenly duplicated; added date to ID to differentiate between locations

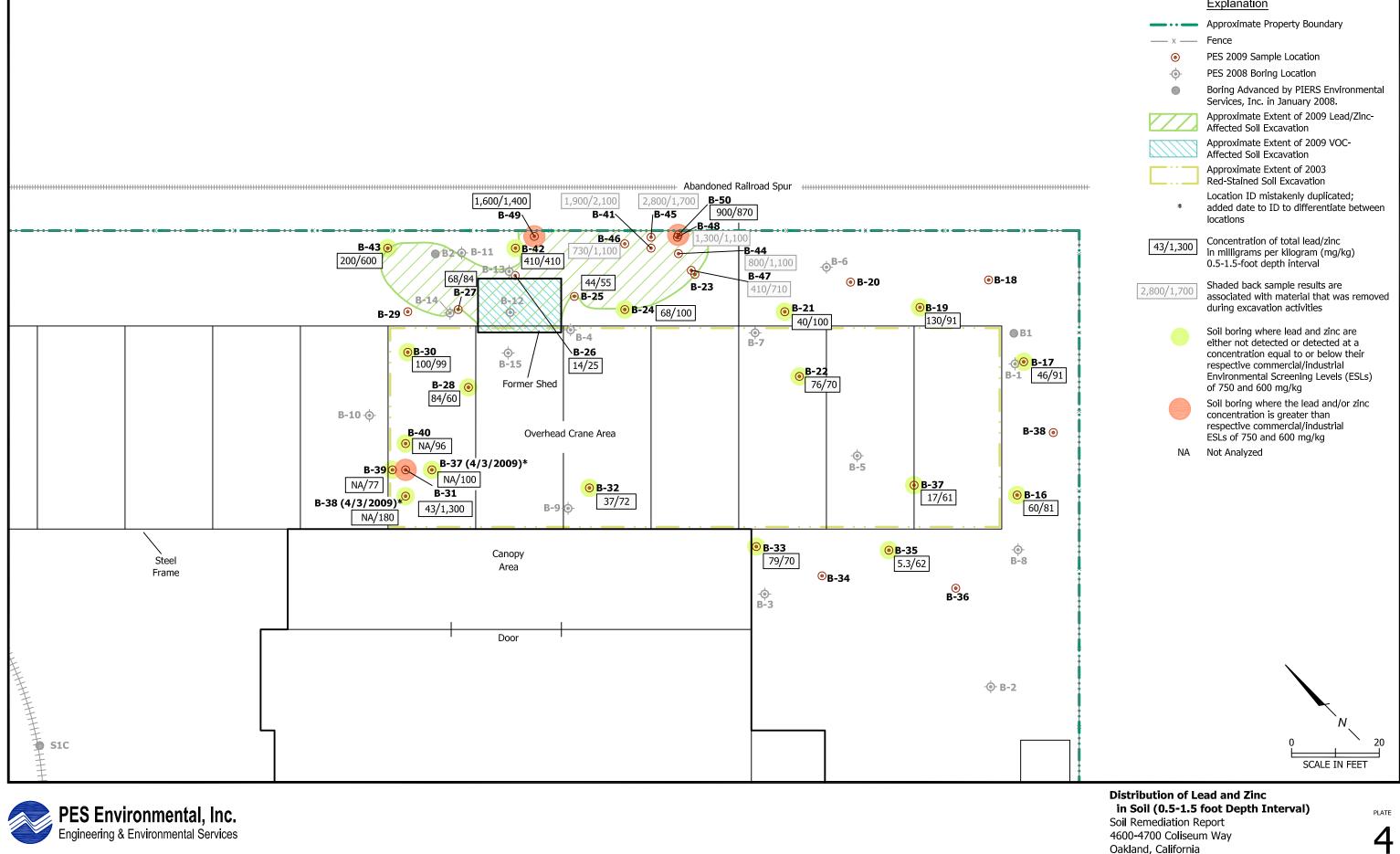


Lead/Zinc Sample Locations and Excavation Boundaries Soil Remediation Report 4600-4700 Coliseum Way Oakland, California



PLATE

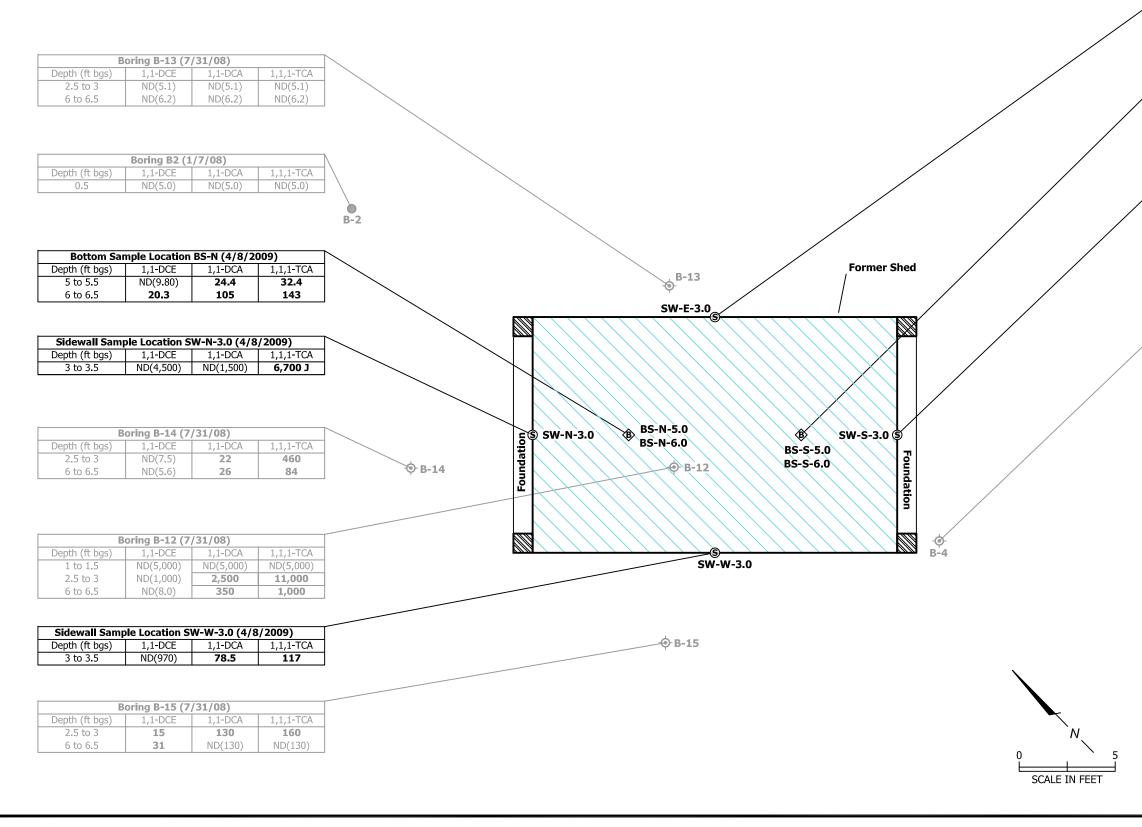
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Explanation

7/09 DATE





\land	Sidewall Sam	ole Location S	W-E-3.0 (4/8	/2009)
	Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
	3 to 3.5	ND(8.3)	ND(8.3)	23.2

Bottom Sample Location BS-S (4/8/2009)					
Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA		
5 to 5.5	ND(8.80)	12.2	20.8		
6 to 6.5	ND(8.80)	19.2	24.5		

Sidewall Sample Location SW-S-3.0 (4/8/2009)					
	Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA	
	3 to 3.5	ND(2,100)	ND(701)	5,450	

Boring B-4 (6/27/08)				
Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA	
2.5 to 3	ND(5.3)	44	5.9	
6 to 6.5	4.9	69	14	

Explanation

- PES 2008 Boring Location

- Boring Advanced by PIERS Environmental Services, Inc. in January 2008.
- Bottom Verification Sample Location

Sidewall Verification Sample Location



Approximate Extent of 2009 VOC-Affected Soil Excavation

Support Beam Column

Notes:

1,1-DCE = 1,1-Dichloroethene1,1-DCA = 1,1-Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

ft bgs = Feet below ground surface

Concentrations are expressed in micrograms per kilogram (µg/kg)

ND(5.0) - Analyte not detected above the stated method reporting limit

J = Result between the method detection limit and the reporting limit, should be considered an estimated value

VOCs = Volatile organic compounds

Limits of VOC-Affected Soil Excavation, Sample Locations and Analytical Results Soil Remediation Report 4600-4700 Coliseum Way Oakland, California

PLATE



PES Environmental, Inc.

APPENDIX A

AMAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES CORRECTIVE ACTION PLAN APPROVAL LETTER

ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

AGENCY

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-93

March 13, 2009

Mr. John Weber ICONCO P.O. Box 304 Diablo, CA 94528-304

Subject: SLIC Case No. RO0002995 and Geotracker Global ID T10000000883, 4600-4700 Coliseum Way, Oakland, CA 94601

Dear Mr. Weber:

Alameda County Environmental Health (ACEH) staff has reviewed the Spills, Leaks, Investigation, and Cleanup (SLIC) case file for the subject site including the most recent document entitled, "Corrective Action Plan, 4600-4700 Coliseum Way, Oakland, California," dated September 23, 2008 (CAP). The CAP summarizes the results of previous environmental investigations at the site and proposes excavation of VOC-affected soil in the northern portion of the property. Based on existing data, the proposed soil excavation and confirmation soil sampling appears generally adequate to address the area of VOC-affected soils and may be implemented as proposed.

Historic reports in the case file report elevated concentrations of metals in an area of red-stained surface soil in the northern portion of the site. The historic reports also indicate that a soil removal action took place apparently in the area of red-stained soil. However, the investigation of the area and documentation of the removal action are inadequate to evaluate whether the area with elevated concentrations of metals was sufficiently delineated and cleaned up. Ad discussed in the technical comments below, we request that you submit a Work Plan to conduct additional confirmation soil sampling in the excavation area of red-stained soil in the northern portion of the site.

TECHNICAL COMMENTS

- 1. Cleanup Goals and Land Use Restrictions. The proposed cleanup goals for soil are Environmental Screening Levels (ESLs) for shallow soil in a commercial/industrial setting. The specific cleanup goals proposed for VOCs listed in Table 2 of Appendix B in the CAP, are ESLs that are based on leaching from soil to groundwater. For the three VOCs of concern, the ESLs for leaching from soil to groundwater are the same for both residential and commercial land use. In future reports, please show ESLs for both residential and commercial land use in order to help evaluate whether future land use restrictions may be necessary.
- 2. Elevated Concentrations of Metals in Soil. Elevated concentrations of lead and zinc were detected in four soil samples collected on May 6, 2003 from an area with red-stained surface soil. Zinc concentrations were elevated in all four soil samples. Shallow soil was excavated apparently in the area of red-stained soil in June 2003. Two reports were prepared to present confirmation soil sampling results from the excavation (Kleinfelder, June 26, 2003 and W.A. Craig, June 26, 2003). However, neither report provides adequate documentation of the removal or confirmation soil sampling. The Kleinfelder (2003) "Confirmation Soil Samples Results," report indicates that four soil samples were collected, "in the same general area where W.A. Craig had previously collected their

Mr. John Weber RO0002995 March 13, 2009 Page 2

> No map showing the location of the excavation or confirmation soil samples was samples." presented. In addition, the soil samples were only analyzed for lead. The W.A. Craig (2003) "Soil Sample Results," report presents a map with soil sample locations. However, the map has no scale, does not show the excavation area, does not show the extent of red-stained soil, does not adequately present fixed points of reference, and is the same map presented in a previous May 2003 report used to show the locations of four investigation soil samples. Furthermore, the text of the W.A. Craig report indicates that the confirmation soil samples, which apparently have the same designations as the investigation soil samples, were collected on June 16, 2003 but the chain-of-custody indicates the soil samples were collected on June 23, 2003. The W.A. Craig report states that soil samples were collected from Bay Mud at the bottom of the excavation at a depth of 1.5 feet bgs while the Kleinfelder report indicates that confirmation soil samples were collected from the bottom of the excavation at a depth of 1 foot bgs. The investigation, excavation, confirmation soil sampling, and documentation of results are not adequate to define the lateral extent of contamination or demonstrate the effectiveness of the soil removal, or confirm the concentrations of metals remaining in soil. We request that you conduct additional confirmation soil sampling in the area of the 2003 excavation to evaluate whether soils with elevated concentrations of metals remain on site. Please present plans for additional confirmation soil sampling in the Work Plan requested below.

3. Gasoline Tank. A 6,000-gallon gasoline tank was noted in the northwestern portion of the site on historic Sanborn maps (1952 and 1966). Two soil borings were advanced in the suspected area of the gasoline tank (PIERS January 2008). With the exception of low concentrations of toluene in groundwater, petroleum hydrocarbons and other VOCs were not detected. Please indicate in the Work Plan requested below whether any investigation has been conducted to evaluate whether the tank has been removed.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- May 20, 2009 Work Plan for Additional Confirmation Soil Sampling in Former Red-Stained Area
- July 19, 2009 Shallow Soil Removal Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program

Mr. John Weber RO0002995 March 13, 2009 Page 3

FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and <u>other</u> data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Mr. John Weber RO0002995 March 13, 2009 Page 4

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Hazardous Materials Unit, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612

John Weber, c/o Cox, Castle, & Nicholson LLP, 555 California Street, 10th Floor, San Francisco, CA 94104

Gary Thomas, PES Environmental, Inc., 1682 Novato Boulevard, Suite 100, Novato, California 94947-7021

Kyle Flory, PES Environmental, Inc., 1682 Novato Boulevard, Suite 100, Novato, California 94947-7021

Donna Drogos, ACEH Jerry Wickham, ACEH File

Alameda County Environmental Cleanup	ISSUE DATE: July 5, 2005
Oversight Programs	REVISION DATE: December 16, 2005
(LOP and SLIC)	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

Effective January 31, 2006, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
 - RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - I) Send an e-mail to <u>dehloptoxic@acgov.org</u>
 - or
 - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.

2) Upload Files to the ftp Site

- a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
- d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload)

APPENDIX B

ALAMEDA COUNTY PUBLIS WORKS AGENCY DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved	d on: 03/25/2009 By jamesy	Permit Numbers: W2009-0252 Permits Valid from 03/27/2009 to 03/27/2009
Application Id: Site Location:	1238020506115 4600-4700 Colisum Way	City of Project Site:Oakland
Project Start Date: Assigned Inspector:	Oakland, CA 03/27/2009 Contact Ron Smalley at (510) 670-5407 or ronald	Completion Date:03/27/2009 lws@acpwa.org
Applicant:	PES Environmental - Gary Thomas 1682 Novato Blvd, Suite 100, Novato, CA 94947	Phone: 415-899-1600
Property Owner:	John Weber-C/O Cox, Castle & Nicholson, LLP 555 San Francisco ST, 10th Floor, San Francisco	Phone:
Client: Contact:	** same as Property Owner ** Gary Thomas	Phone: 415-899-1600 Cell:
	Receipt Number: WR2009-0113 Payer Name : PES Environmental	

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 16 Boreholes Driller: ENVIRONMENTAL CONTROL ASSOCIATES - Lic #: 659970 - Method: DP

Work Total: \$230.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009- 0252	03/25/2009	06/25/2009	16	2.50 in.	4.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 or email to ronaldws@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

LITHOLOGIC LOGS

	MAJOR DIVIS	SIONS			TYPICAL NAMES	
		CLEAN GRAVELS	GW			
SIEVE	GRAVELS	WITH LESS THAN 15% FINES	GP			
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5Y 5/2			Charts		unch Sample	nalysis
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				4600-4700	Coliseum Way	C

1148 001 03 010 JOB NUMBER

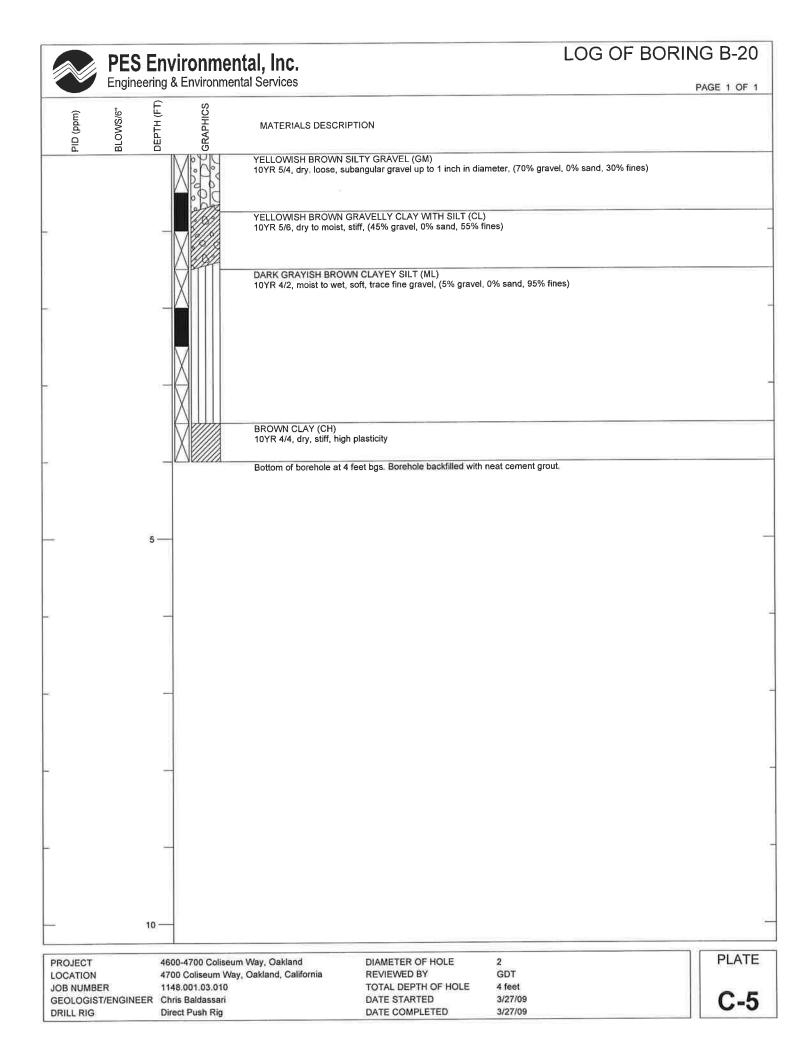
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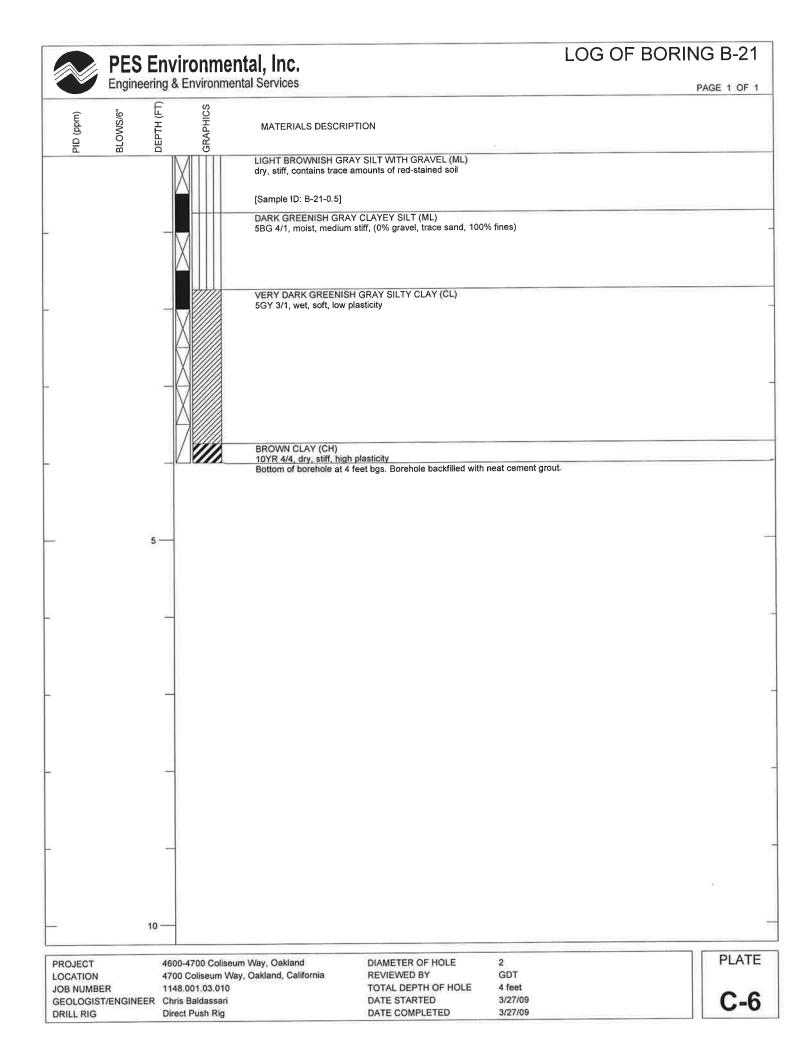
	PES	En	/ironmen & Environmen	tal, Inc.		LOG OF BC	DRING B-16
	Engine	ering	& Environmen	tal Services			PAGE 1 OF 1
PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIF	ντιον		
			Meder	YELLOWISH BROWN S 10YR 5/4, dry, loose, an	ILTY GRAVEL (GM) gular gravel up to 1-inch in diame	ter, (70% gravel, 0% sand, 30% fines)	
				[Sample ID: B-16-0.5]			
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				DARK GRAYISH BROW 10YR 4/2, wet, soft, trac	/N SILTY CLAY (CL) e fine gravel, (trace gravel, 0% sa	nd, 100% fines), low plasticity	
-				Change in color to DARI fines)	< BROWN (10YR 4/3) at 2.75 fee	t bgs, dry to moist, medium stiff, (0% gravel,	,0% sand, 100%
L.		_					
				Bottom of borehole at 4	feet bgs. Borehole backfilled with	neat cement grout,	
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-		-	-				-
		10					-
PROJECT			00-4700 Coliseum	Way, Oakland , Oakland, California	DIAMETER OF HOLE REVIEWED BY	2 GDT	PLATE
JOB NUMBE		11- ER Ch	48.001.03.010 ris Baldassari rect Push Rig	Camana, California	DATE COMPLETED	4 feet 3/27/09 3/27/09	C-1

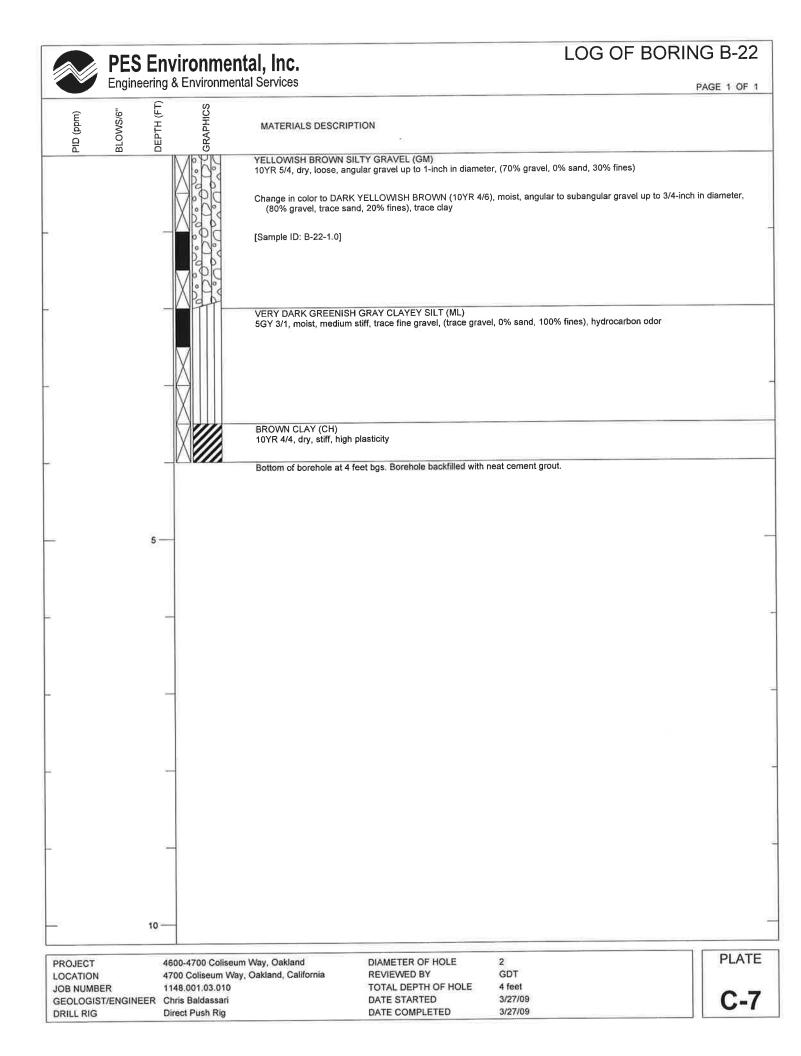
PES Environmental, Inc. LOG OF BORI Engineering & Environmental Services Image: Service serv	PAGE 1 OF 1
(IL S) HL HA MATERIALS DESCRIPTION GIA B G	
YELLOWISH BROWN SILTY GRAVEL (GM) 10YR 5/4, dry, loose, angular gravel up to 1-inch in diameter, (70% gravel, 0% sand, 30% fines)	
[Sample ID: B-17-0.5]	
Color change to REDDISH YELLOW (7.5YR 6/6) at 1 foot bgs, moist, loose, angular to subangular gravel up diameter, (80% gravel, trace sand, 20% fines)	to 3/4-inch in
DARK GRAYISH BROWN SILTY CLAY (CL) 10YR 4/2, wet, soft, trace fine gravel, (trace gravel, 0% sand, 100% fines), low plasticity	-
Change in color to DARK BROWN (10YR 4/3) at 2.75 feet bgs, dry to moist, medium stiff, (trace gravel, 0% fines)	sand, 100% -
Bottom of borehole at 4 feet bgs. Borehole backfilled with neat cement grout.	
5	_
	5
	3
10	2
PROJECT 4600-4700 Coliseum Way, Oakland DIAMETER OF HOLE 2 LOCATION 4700 Coliseum Way, Oakland, California REVIEWED BY GDT	PLATE
JOB NUMBER 1148.001.03.010 TOTAL DEPTH OF HOLE 4 feet GEOLOGIST/ENGINEER Chris Baldassari DATE STARTED 3/27/09	C-2
DRILL RIG Direct Push Rig DATE COMPLETED 3/27/09	

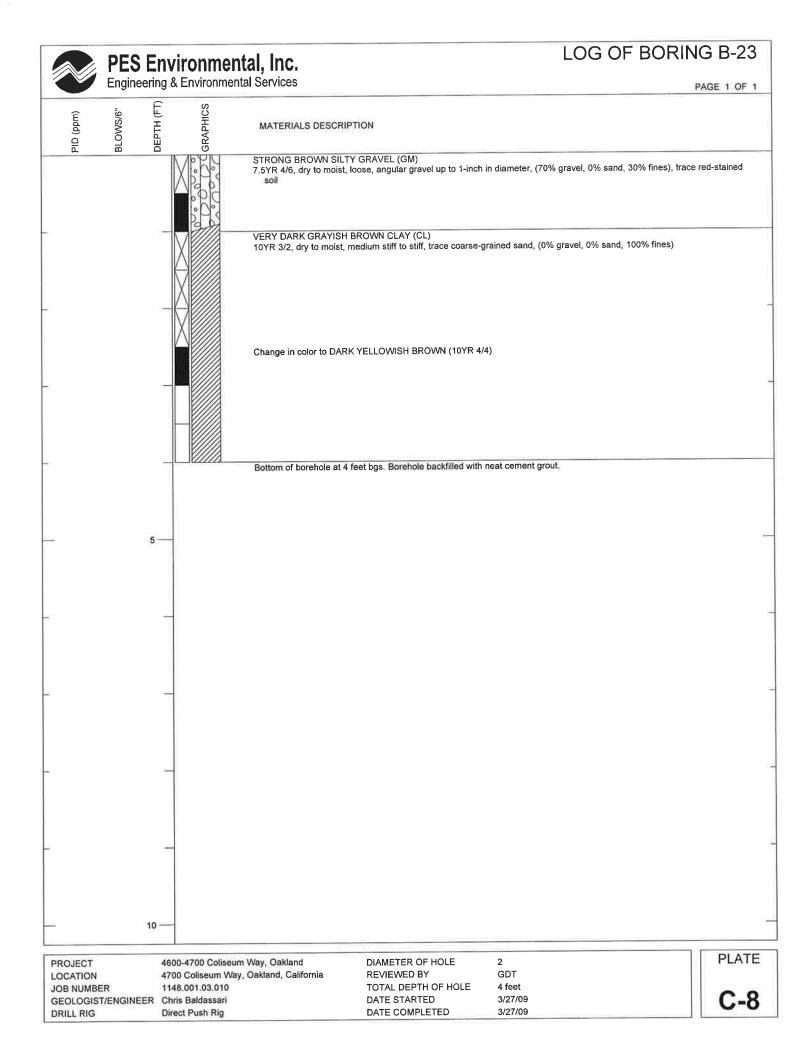
	PFS	Env	vironmental.	Inc.		LOG OI	BORING B-18
	Enginee	ring 8	vironmental, & Environmental Se	rvices			PAGE 1 OF 1
PID (ppm)	BLOWS/6"	DЕРТН (FT)	GRAPHICS	ATERIALS DESCRIPT	ION		
				LOWISH BROWN SIL R 5/4, dry, loose, angu	TY GRAVEL (GM) Ilar gravel up to 1-inch in diamete	er, (70% gravel, 0% sand, 30% fine	s)
				ange in color to DARK (I,5-inches in diameter	GRAY (10YR 4/1) mottled with D	ARK YELLOWISH BROWN (10YR	4/6) at 1 foot bgs, gravel up to
			BR(10Y	OWN CLAY (CL) 'R 4/4, dry, stiff, high p	lasticity		
			Bot	tom of borehole at 4 fe	et bgs. Borehole backfilled with r	ieat cement grout.	_
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-		_					
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	1	10					
PROJECT			00-4700 Coliseum Way, 00 Coliseum Way, Oakla		DIAMETER OF HOLE REVIEWED BY	2 GDT	PLATE
JOB NUMB	ER	114 R Chi	18.001.03.010 ris Baldassari ect Push Rig		TOTAL DEPTH OF HOLE DATE STARTED DATE COMPLETED	4 feet 3/27/09 3/27/09	C-3

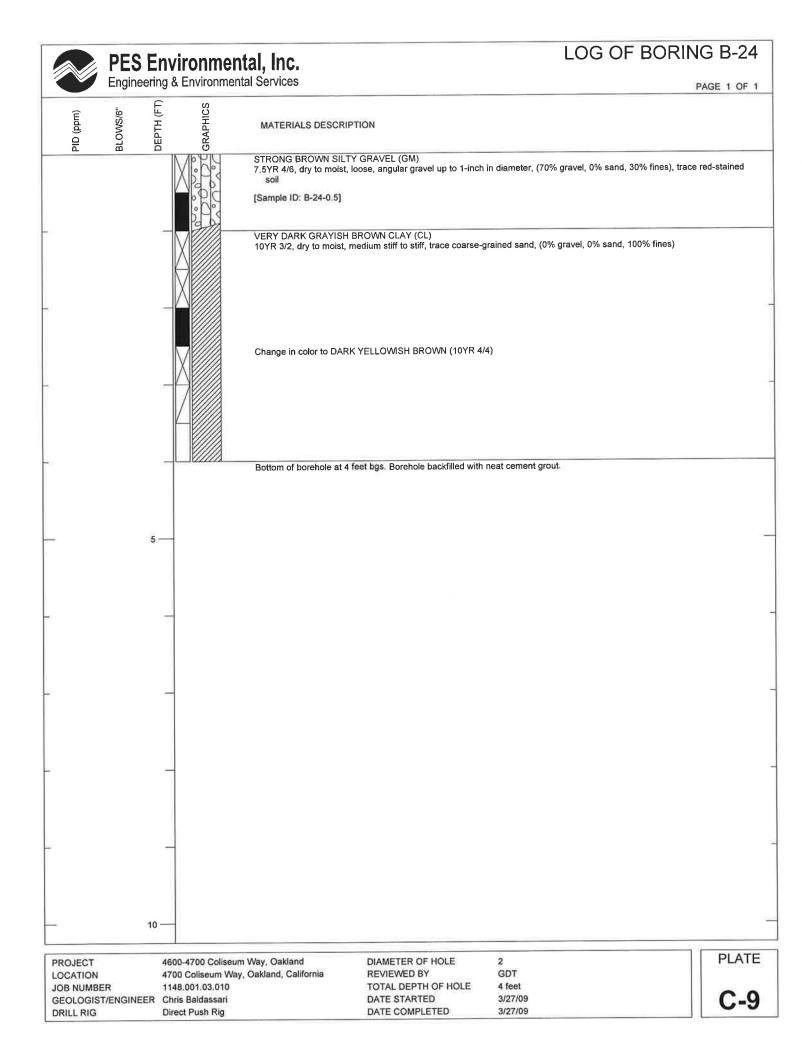
	PFS	Fn	vironmental. Inc.	LOG	OF BORING B-19
	Engine	eering	vironmental, Inc. & Environmental Services		PAGE 1 OF 1
(mqq) Olq	BLOWS/6"	DEPTH (FT)	SOLUTION MATERIALS DESCR	IPTION	
ш	ш		IN 169-10 YELLOWISH BROWN	SILTY GRAVEL (GM) ingular gravel up to 1-inch in diameter, (70% gravel, 0% sand, 30%	fines)
			[Sample ID: B-19-0.5]		
6		6.	VERY DARK GRAY SI 5GY 3/1, moist, mediu	LTY CLAY (CL) m stiff, low plasticity	
			Change in color to BR	OWN (10YR 4/4) at 2,5 feet bgs, dry, stiff, high plasticity	-
-			Bottom of borehole at	4 feet bgs. Borehole backfilled with neat cement grout.	
		5 —	-		
		-	-		-
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PROJECT			00-4700 Coliseum Way, Oakland	DIAMETER OF HOLE 2	PLATE
LOCATION JOB NUMBE GEOLOGIST DRILL RIG		11 ER C	00 Coliseum Way, Oakland, California 48.001.03.010 nris Baldassari rect Push Rig	REVIEWED BYGDTTOTAL DEPTH OF HOLE4 feetDATE STARTED3/27/09DATE COMPLETED3/27/09	C-4

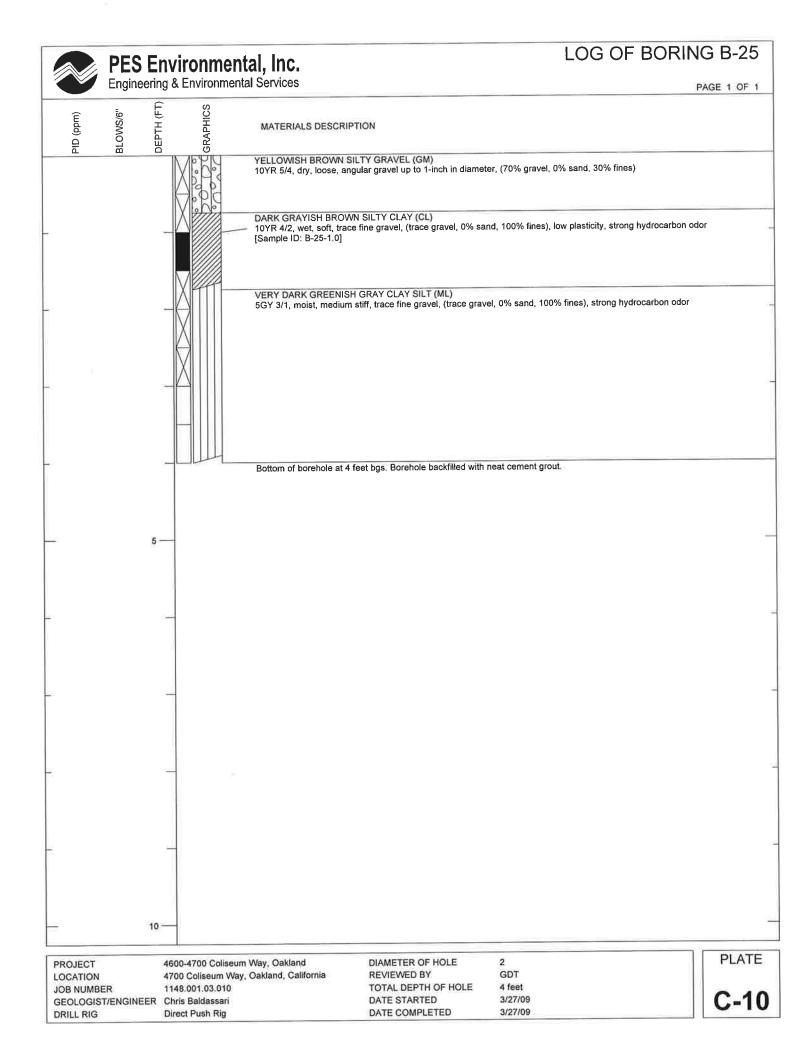


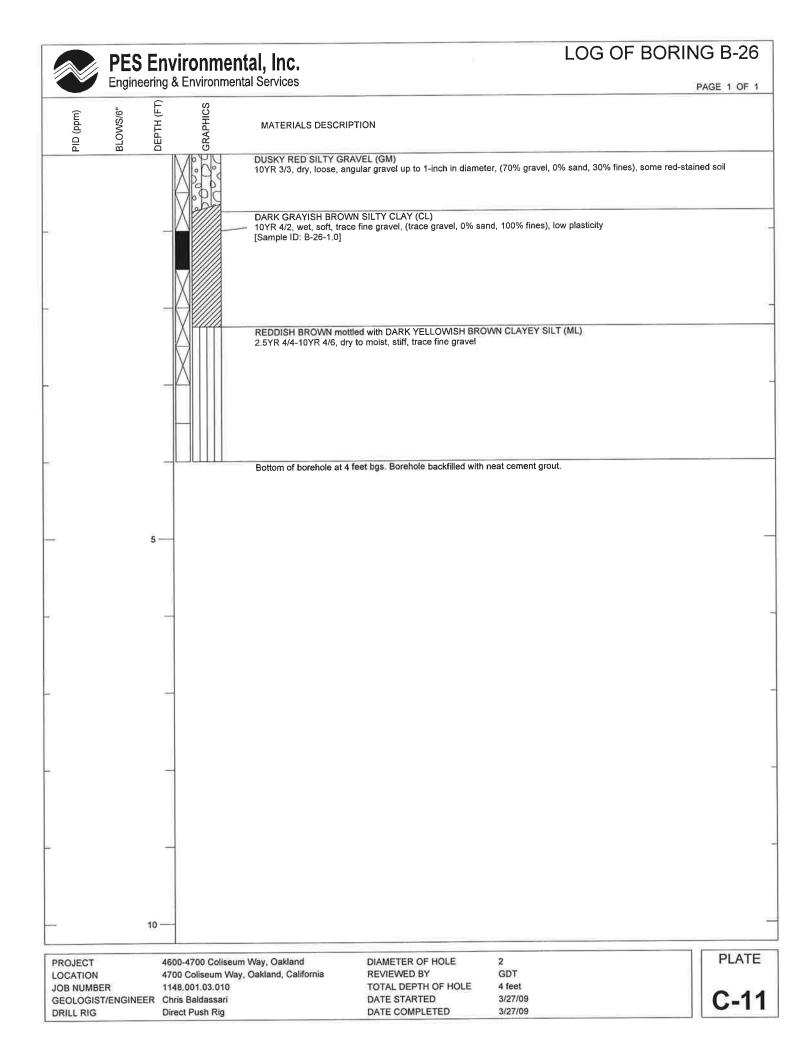


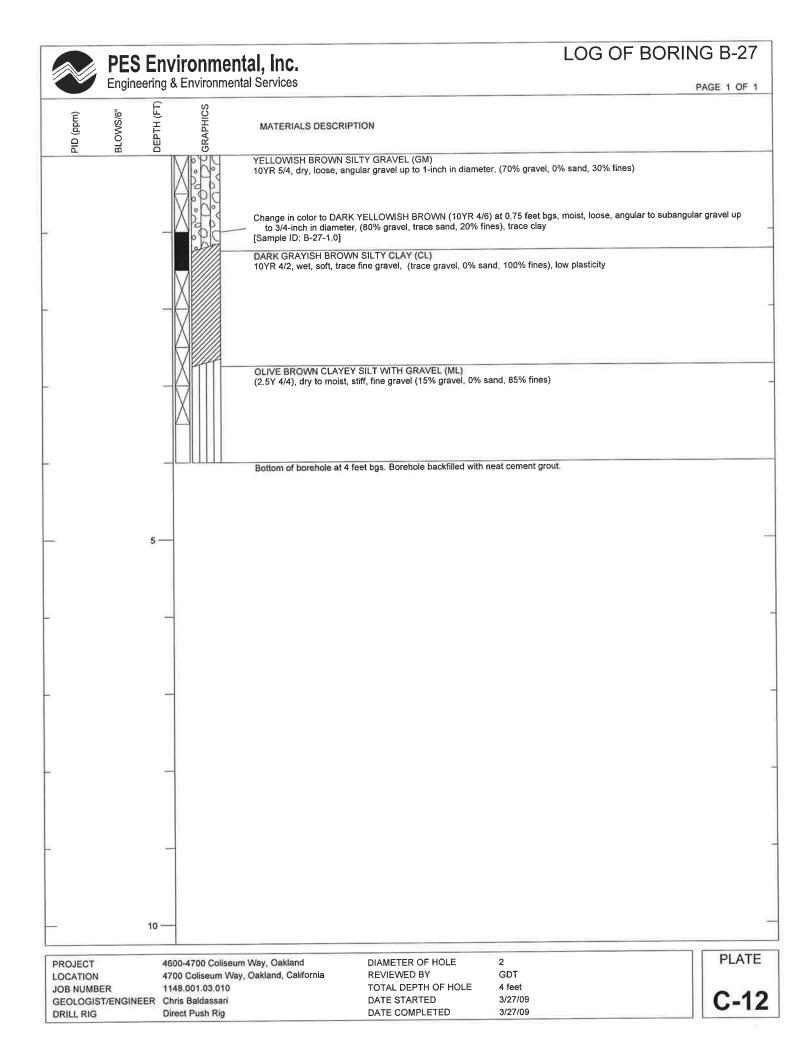


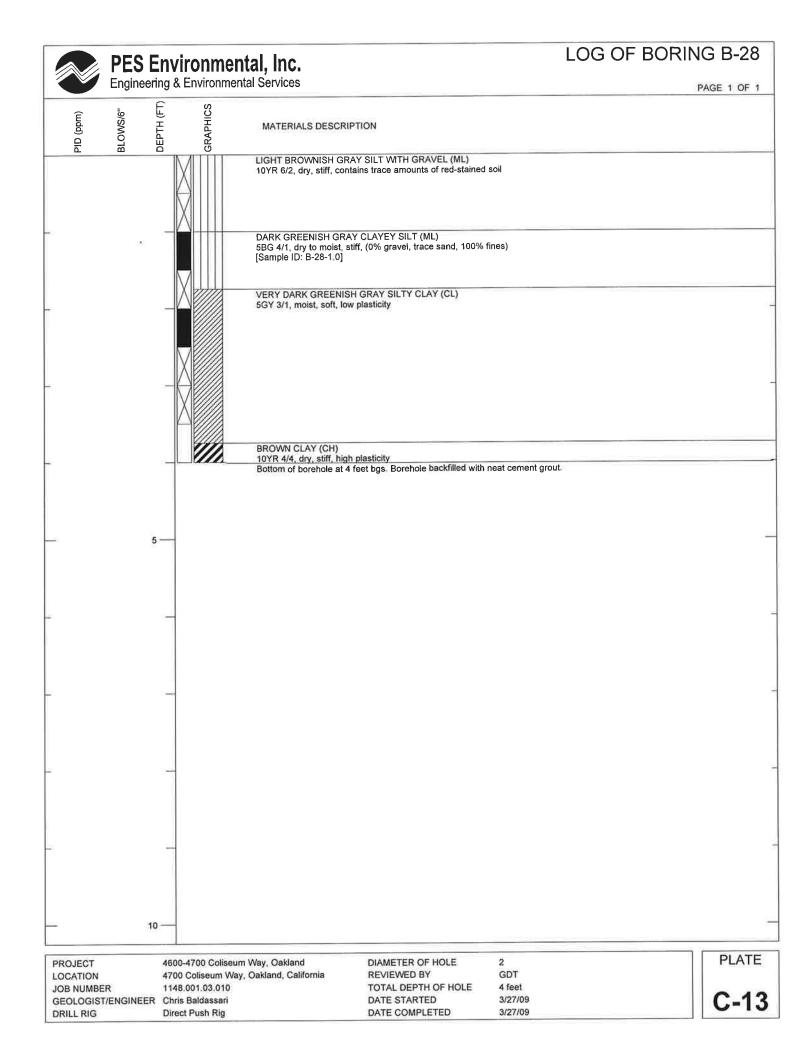


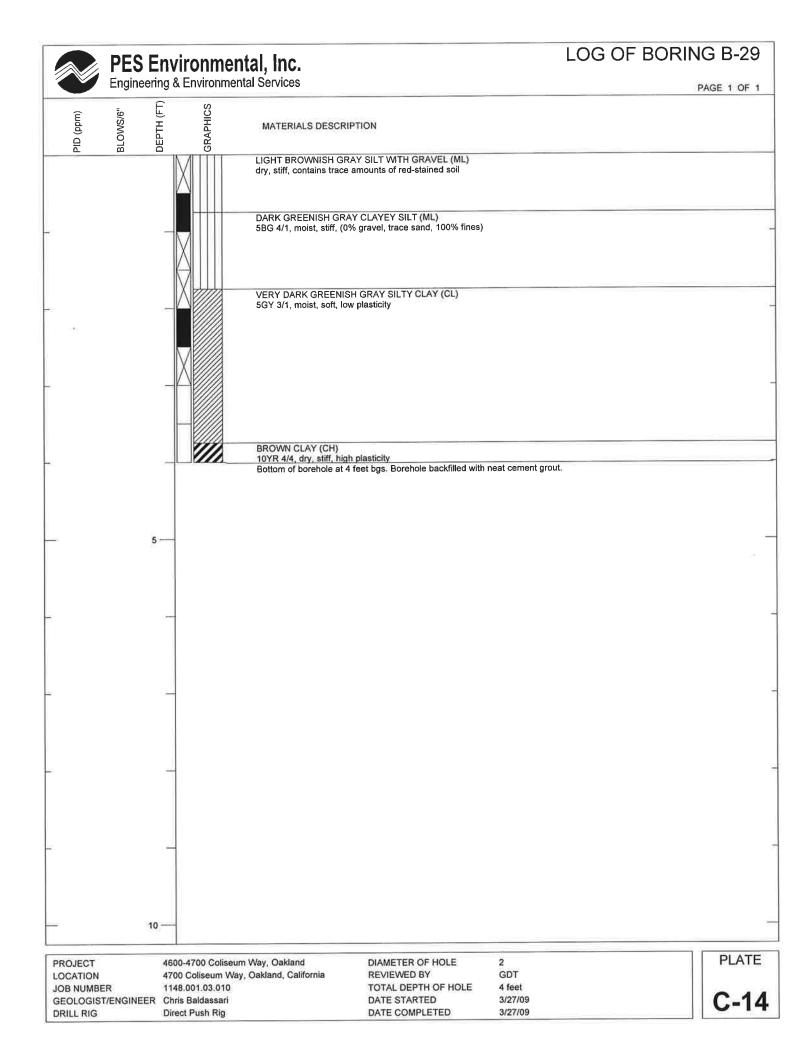


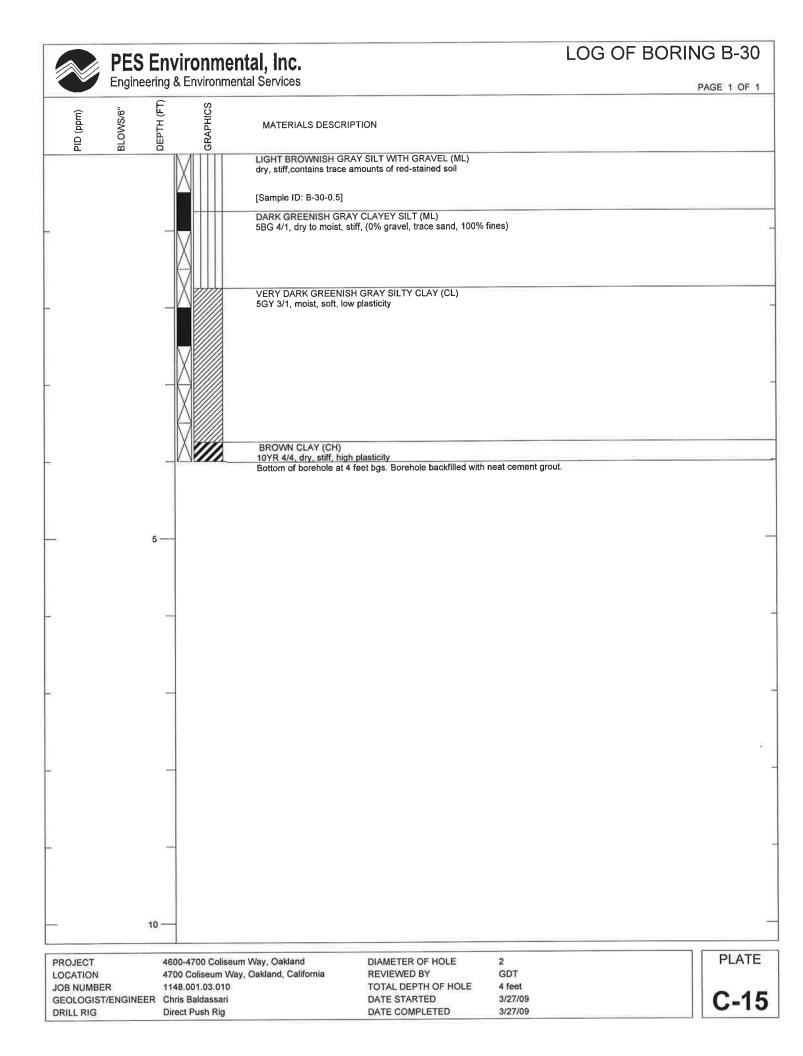


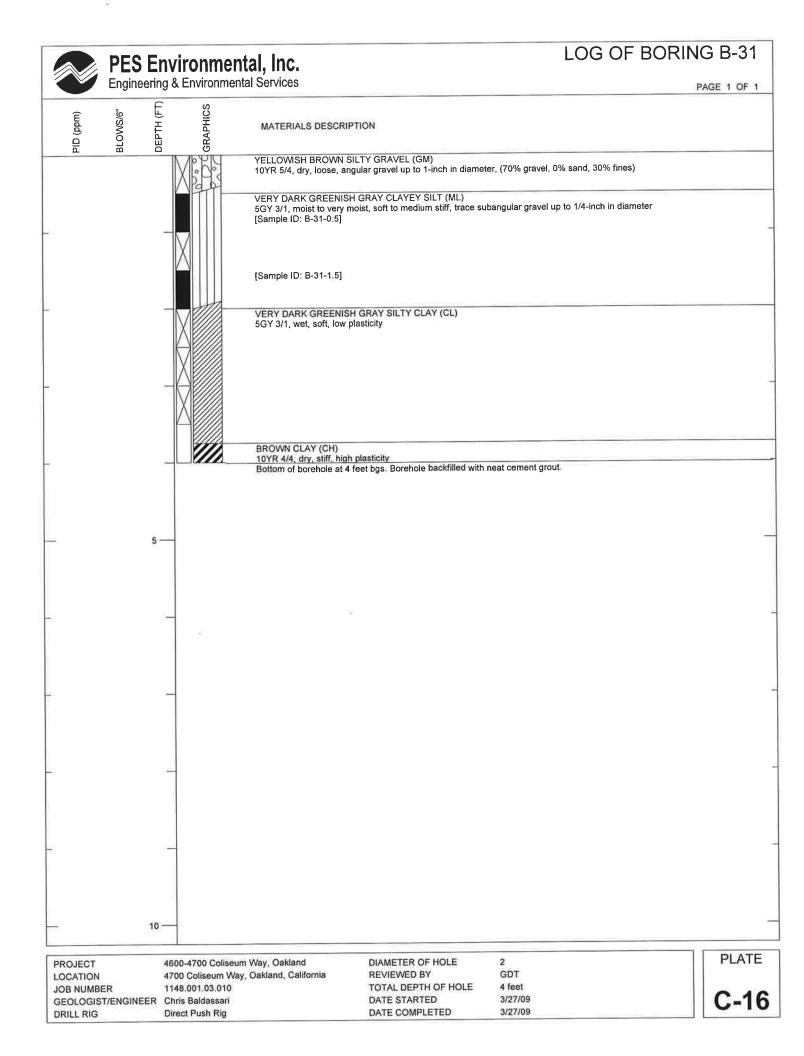


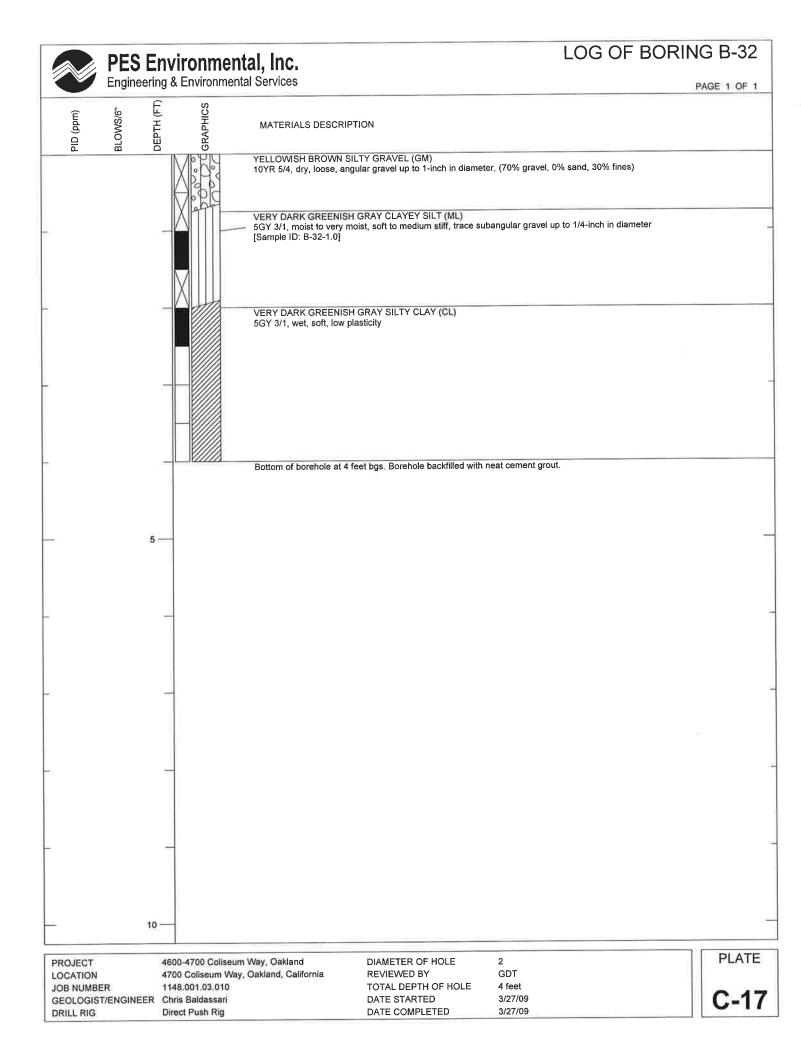


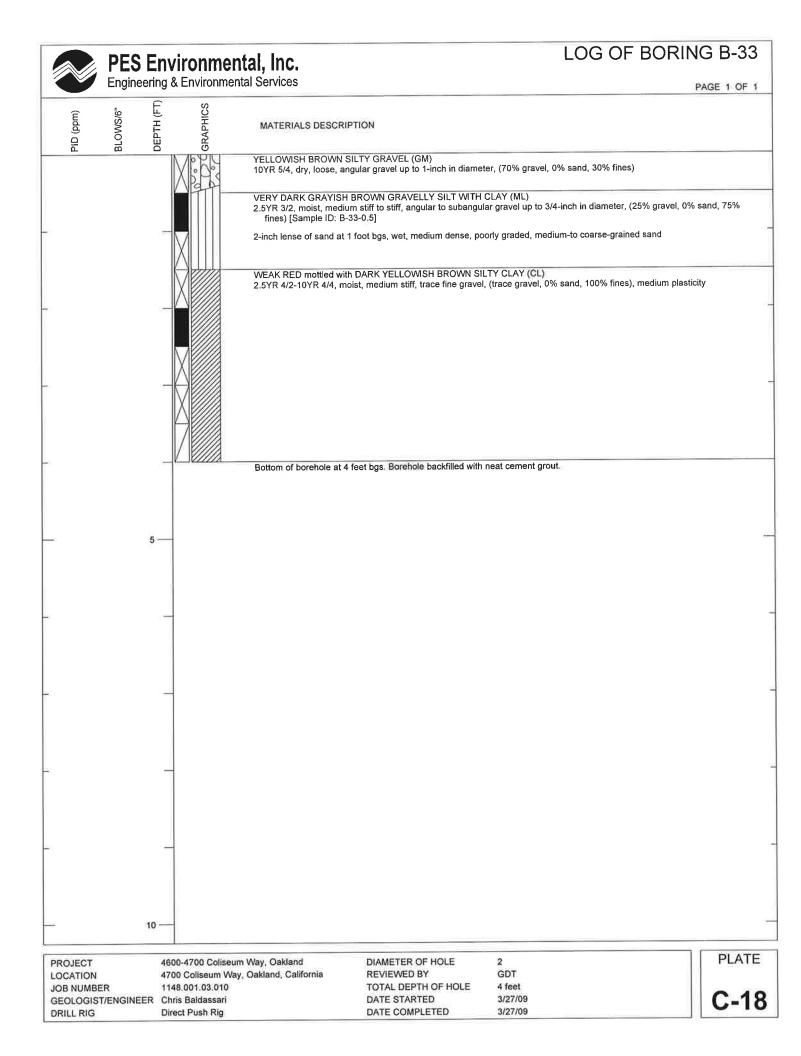


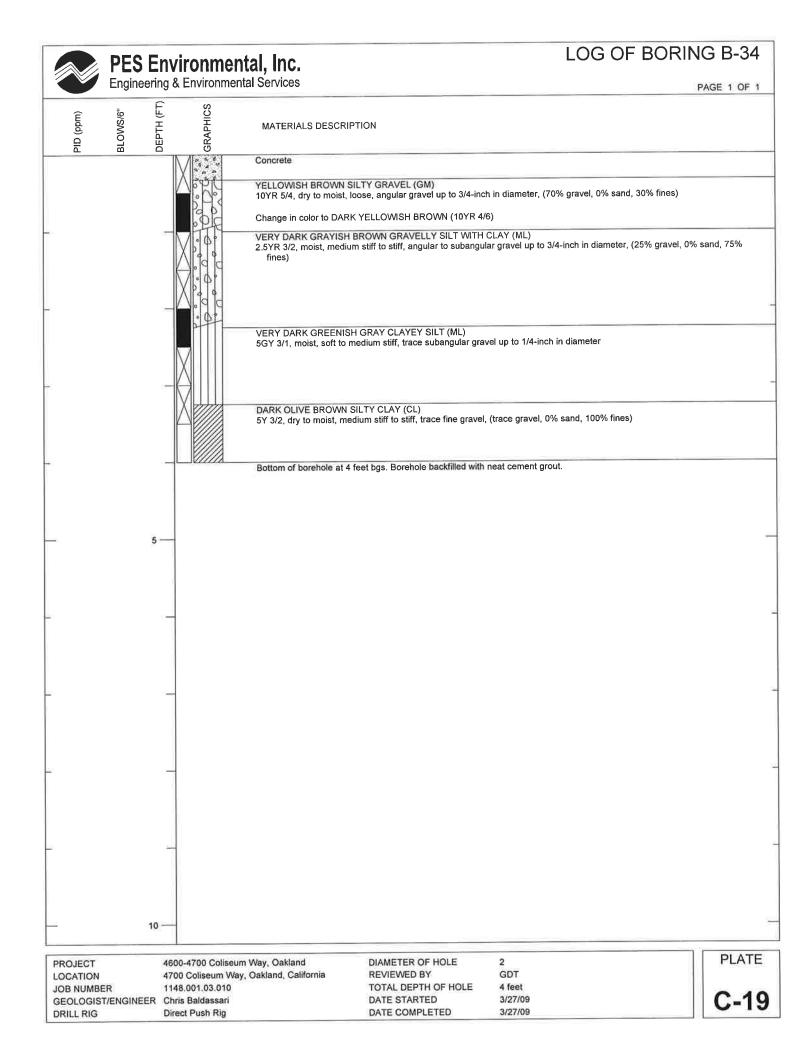


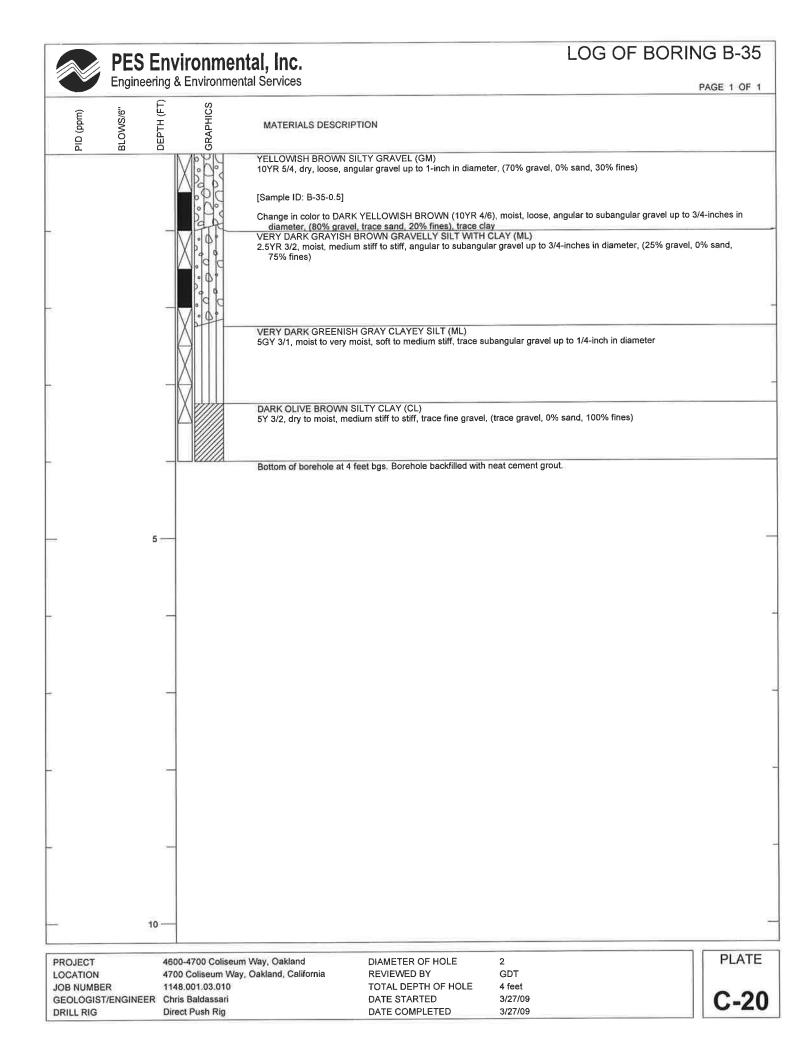












	PES	Env	/ironmen & Environmen	tal, Inc.		LOG	OF BORING B-36
•	Engine		& Environmen				PAGE 1 OF 1
PID (ppm)	BLOWS/6"	DЕРТН (FT)	GRAPHICS	MATERIALS DESCRI	PTION		
			M	Asphalt			
- ,				SILTY GRAVEL WITH 0 10YR 4/6, moist, loose,	CLAY (GM) angular to subangular gravel up to	o 3/4-inch in diameter, (80% grave	al, trace sand, 20% fines)
-				VERY DARK GRAYISH 2.5YR 3/2, moist, mediu fines)	BROWN GRAVELLY SILT WITH Im stiff to stiff, angular to subangul	CLAY (ML) lar gravel up to 3/4-inch in diamet	er, (25% gravel, 0% sand, 75%
				VERY DARK GREENIS 5GY 3/1, moist to very r	H GRAY CLAYEY SILT (ML) noist, soft to medium stiff, trace su	ubangular gravel up to 1/4-inch in	diameter
		-		Dettern of barehole of 4	feet bgs. Borehole backfilled with	pest compet arout	
		5 —					-
		-					
-		-					
-		-					
		1					-
		10					
the second se	ER	470 114 ER Ch	18.001.03.010 ris Baldassari	n Way, Oakland , Oakland, California	DIAMETER OF HOLE REVIEWED BY TOTAL DEPTH OF HOLE DATE STARTED	2 GDT 4 feet 3/27/09 3/27/09	PLATE C-21
DRILL RIG		Diff	ect Push Rig		DATE COMPLETED	JILING	

	PES E	nv ing 8	vironmental, Inc. & Environmental Services	LOG OF BORING B-37
(mqq) Old		DEPTH (FT)	S S H MATERIALS DESC B S	
	BL		VERY DARK GRAYI 2.5YR 3/2, moist, me fines) [Sample ID: B-37-1.0	
	5		Bottom of borehole a	at 4 feet bgs. Borehole backfilled with neat cement grout.
		_		
-				
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	1(0 —	-	
PROJECT LOCATION JOB NUMBI GEOLOGIS DRILL RIG		47 11-	00-4700 Coliseum Way, Oakland 00 Coliseum Way, Oakland, California 48.001.03.010 rris Baldassari rect Push Rig	DIAMETER OF HOLE 2 REVIEWED BY GDT TOTAL DEPTH OF HOLE 4 feet DATE STARTED 3/27/09 DATE COMPLETED 3/27/09

PES Envir	onmental. Inc.		LOG OF BORIN	G B-38
Engineering & E	conmental, Inc. Environmental Services			PAGE 1 OF 1
PID (ppm) BLOWS/6" DEPTH (FT)	ମୁମୁମ୍ମ MATERIALS DESCRIPTI ଅନୁସୁସୁ	ИС		
	VELLOWISH BROWN SILT	Y GRAVEL (GM) ar gravel up to 1-inch in diameter,	, (70% gravel, 0% sand, 30% fines)	
-	Change in color to REDDIS diameter, (80% gravel, t	H YELLOW (7.5YR 6/6) at 1 foot race sand, 20% fines)	bgs, moist, loose, angular to subangular gravel up	to 3/4-inch in
X	DARK GRAYISH BROWN 10YR 4/2, wet, soft, trace f	SILTY CLAY (CL) ne gravel, (trace gravel, 0% sand	l, 100% fines), low plasticity	
	Change in color to DARK E fines)	ROWN (10YR 4/3) at 2,75 feet by	gs, dry to moist, medium stiff, (0% gravel, 0% sand	i, 100% -
	Bottom of borehole at 4 fee	t bgs. Borehole backfilled with ne	eat cement grout.	
5				
10				-
	4700 Calicours May Calicot	DIAMETER OF HOLE	2	PLATE
LOCATION 4700	4700 Coliseum Way, Oakland Coliseum Way, Oakland, California 001.03.010	REVIEWED BY TOTAL DEPTH OF HOLE	GDT 4 feet	
GEOLOGIST/ENGINEER Chris	Baldassari Push Rig	DATE STARTED DATE COMPLETED	3/27/09 3/27/09	C-23

APPENDIX D

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

RESULTS FOR SOIL BORING B-16 THROUGH B-38



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Project : 1148.001.03.002 PES Environmental, Inc. Location : 4700 Coliseum Way Site, Oakland 1682 Novato Boulevard Novato, CA 94947 Level : II Sample ID Lab ID Sample ID Lab ID B-35-1.5 210988-001 B-21-0.5 210988-023 B-35-0.5 210988-002 B-21-1.5 210988-024 B-36-0.5 B-19-0.5 210988-003 210988-025 B-19-2.0 B-36-2.5 210988-004 210988-026 B-31-0.5 B-32-1.0 210988-005 210988-027 B-32-2.0 210988-028 210988-006 B-31-1.5 B-34-0.5 B-33-0.5 210988-029 210988-007 B-34-2.0 210988-008 B-33-2.0 210988-030 B-16-0.5 210988-009 B-38-0.5 210988-031 B-16-2.0 210988-010 B-38-2.0 210988-032 B-23-0.5 210988-011 B-22-1.0 210988-033 B-23-2.5 B-22-2.0 210988-012 210988-034 B-37-1.0 B-20-0.5 210988-013 210988-035 B-37-2.5 B-20-2.0 210988-036 210988-014 B-30-2.0 210988-015 B-24-0.5 210988-037 B-24-2.0 B-30-0.5 210988-016 210988-038 B-29-0.5 210988-017 B-18-0.5 210988-039 B-29-2.0 210988-018 B-18-2.5 210988-040 B-28-1.0 B-26-1.0 210988-041 210988-019 B-28-2.0 210988-020 B-25-1.0 210988-042 B-17-0.5 B-27-1.0 210988-043 210988-021 B-17-1.5 210988-022 COMP RED 210988-044

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: roject Manager

Signature:

Senior Program Manager

Date: <u>03/31/2009</u>

Date: <u>04/02/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 210988 PES Environmental, Inc. 1148.001.03.002 4700 Coliseum Way Site, Oakland 03/27/09 03/27/09

This data package contains sample and QC results for seventeen soil samples, requested for the above referenced project on 03/27/09. The samples were received intact at ambient temperature.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for barium in the MS/MSD of B-35-0.5 (lab # 210988-002); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

PESINVironmental, Inc. Engineering & Environmental Services	SAMPLERS:	N OF STODY F 21098	8	(415) 899-1600 FAX		 T T
JOB NUMBER: 1148-001-03.002				(g		
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DATE	MATRIX	# of Containers & Preservatives		日本 王 王 王 王 王 王 王 王 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		
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COOLER RI	ECEIPT CHECKLIST	Curtis & Tompkins, Ltd.
Date Opened	2098 Date Received 3/27/09 S CINVINDIMENTAL Project 4600 3/27/09 By (print) <i>hunig</i> (sign) in By (print) (sign)	Number of coolers -4700 Coliseum Way Stley Objectand, CA
	come with a shipping slip (airbill, etc) ng info	YES NO
How n 2B. Were custo 3. Were custo 4. Were custo 5. Is the proje	tody seals present? [] YES (circle) on cooler nanyName tody seals intact upon arrival? dy papers dry and intact when received? dy papers filled out properly (ink, signed, etc)? ect identifiable from custody papers? (If so fill out top packing in cooler: (if other, describe)	on samples Date YES NO N/A YES NO VES NO of form) YES NO
Clot	ble Wrap [] Foam blocks [] Bags h material [] Cardboard [] Styrofoam re documentation:	VNone Paper towels
Туре с	of ice used: 🗌 Wet 🗌 Blue/Gel 💽 None	Temp(°C)
🗌 San	nples Received on ice & cold without a temperature b	plank
🗍 San	nples received on ice directly from the field. Cooling	process had begun
If YES 9. Did all bott 10. Are samp 11. Are samp 12. Do the sar 13. Was suffic 14. Are the sa 15. Are bubbl 16. Was the c	nod 5035 sampling containers present? S, what time were they transferred to freezer? les arrive unbroken/unopened? les in the appropriate containers for indicated tests? le labels present, in good condition and complete? nple labels agree with custody papers? cient amount of sample sent for tests requested? mples appropriately preserved? es > 6mm absent in VOA samples? lient contacted concerning this sample delivery? S, Who was called?	YES NO YES NO YES NO YES NO YES NO YES NO N/A YES NO N/A YES NO
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		Lead	
Lab #:	210988	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03.002	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	149349
Matrix:	Soil	Sampled:	03/27/09
Units:	mg/Kg	Received:	03/27/09
Basis:	as received	Prepared:	03/27/09
Diln Fac:	1.000	Analyzed:	03/28/09
Field ID	Type Lab ID	Result	RL
B-35-0.5	SAMPLE 210988-002	5.3	0.25
B-32-1.0	SAMPLE 210988-005	37	0.25
B-16-0.5	SAMPLE 210988-009	60	0.25
B-37-1.0	SAMPLE 210988-013	17	0.25
B-30-0.5	SAMPLE 210988-016	100	0.25
B-28-1.0	SAMPLE 210988-019	84	0.25
B-17-0.5	SAMPLE 210988-021	46	0.25
B-21-0.5	SAMPLE 210988-023	40	0.25
B-19-0.5	SAMPLE 210988-025	130	0.25
B-31-0.5	SAMPLE 210988-027	43	0.25
B-33-0.5	SAMPLE 210988-029	79	0.25
B-22-1.0	SAMPLE 210988-033	76	0.25
B-24-0.5	SAMPLE 210988-037	68	0.25
B-26-1.0	SAMPLE 210988-041	14	0.25
B-25-1.0	SAMPLE 210988-042	44	0.25
B-27-1.0	SAMPLE 210988-043	68	0.25
	BLANK QC489274	ND	0.25

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ND= Not Detected RL= Reporting Limit Page 1 of 1

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Lab #:	210988		00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	A 3050B
Project#:	1148.001.03.002	Analysis: EPA	A 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	B-35-0.5	Batch#:	149349
MSS Lab ID:	210988-002	Sampled:	03/27/09
Matrix:	Soil	Received:	03/27/09
Units:	mg/Kg	Prepared:	03/27/09
Basis:	as received	Analyzed:	03/28/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC489275		100.0	93.08	93	80-120		
BSD	QC489276		100.0	92.73	93	80-120	0	20
MS	QC489277	5.301	89.29	75.75	79	49-124		
MSD	QC489278		97.09	83.88	81	49-124	2	31



Lab #:	210988			Proje	ct#: 1148	.001.03.00	02	
Client:	PES Environmental, Inc.		Locat	ion: 4700	Coliseum	Way Site,	Oakland	
Field ID:	COMP RED			Basis	•	as rece	eived	
Lab ID:	210988-044			Sample	ed:	03/27/0	09	
Matrix:	Soil			Recei	ved:	03/27/0	09	
Units:	mg/Kg							
Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Arsenic	7.2	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Barium	3,700	2.4	10.00	149349	03/27/09	03/30/09	EPA 3050B	EPA 6010B
Beryllium	ND	0.10	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Cadmium	1.4	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Chromium	770	2.4	10.00	149349	03/27/09	03/30/09	EPA 3050B	EPA 6010B
Cobalt	12	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Copper	630	2.4	10.00				EPA 3050B	EPA 6010B
Lead	800	1.6	10.00	149349	03/27/09	03/30/09	EPA 3050B	EPA 6010B
Mercury	0.079	0.020	1.000	149387	03/30/09	03/30/09	METHOD	EPA 7471A
Molybdenum	7.7	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Nickel	45	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	149349	03/27/09	03/28/09	EPA 3050B	
Silver	0.56	0.25	1.000	149349	03/27/09	03/28/09	EPA 3050B	
Thallium	ND	0.50	1.000				EPA 3050B	EPA 6010B
Vanadium	18	0.25	1.000				EPA 3050B	EPA 6010B
Zinc	8,500	96	100.0	149349	03/27/09	03/30/09	EPA 3050B	EPA 6010B

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 22 Metals				
Lab #:	210988	Location: 4700 Coliseum Way Site, Oakland		
Client:	PES Environmental, Inc.	Prep: EPA 3050B		
Project#:	1148.001.03.002	Analysis: EPA 6010B		
Type:	BLANK	Diln Fac: 1.000		
Lab ID:	QC489274	Batch#: 149349		
Matrix:	Soil	Prepared: 03/27/09		
Units:	mg/Kg	Analyzed: 03/28/09		
Basis:	as received			

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.25	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	



California Title 22 Metals			
Lab #: Client: Project#:	210988 PES Environmental, Inc. 1148.001.03.002	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B	
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: 149349 Prepared: 03/27/09 Analyzed: 03/28/09	

Type: BS	Lab ID:	QC489	9275	
Analyte	Spiked	Result	*REC	
Antimony	100.0	98.46	98	80-120
Arsenic	50.00	47.09	94	80-120
Barium	100.0	91.92	92	80-120
Beryllium	2.500	2.255	90	80-120
Cadmium	10.00	9.223	92	80-120
Chromium	100.0	90.21	90	80-120
Cobalt	25.00	22.20	89	80-120
Copper	12.50	10.79	86	80-120
Lead	100.0	93.08	93	80-120
Molybdenum	20.00	19.50	98	80-120
Nickel	25.00	23.10	92	80-120
Selenium	50.00	45.97	92	80-120
Silver	10.00	9.015	90	80-120
Thallium	50.00	46.88	94	80-120
Vanadium	25.00	22.88	92	80-120
Zinc	25.00	21.05	84	80-120

Type: BSD	Lab ID:	QC489	276			
Analyte	Spiked	Result	*REC	Limits	RPD	Lim
Antimony	100.0	98.25	98	80-120	0	20
Arsenic	50.00	47.01	94	80-120	0	20
Barium	100.0	93.40	93	80-120	2	20
Beryllium	2.500	2.308	92	80-120	2	20
Cadmium	10.00	9.474	95	80-120	3	20
Chromium	100.0	91.77	92	80-120	2	20
Cobalt	25.00	22.75	91	80-120	2	20
Copper	12.50	11.00	88	80-120	2	20
Lead	100.0	92.73	93	80-120	0	20
Molybdenum	20.00	19.41	97	80-120	0	20
Nickel	25.00	23.04	92	80-120	0	20
Selenium	50.00	46.03	92	80-120	0	20
Silver	10.00	9.133	91	80-120	1	20
Thallium	50.00	46.60	93	80-120	1	20
Vanadium	25.00	23.34	93	80-120	2	20
Zinc	25.00	21.74	87	80-120	3	20



California Title 22 Metals					
Lab #: Client: Project#:	210988 PES Environmental, Inc. 1148.001.03.002	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B			
Field ID: MSS Lab ID: Matrix: Units: Basis: Diln Fac:	B-35-0.5 210988-002 Soil mg/Kg as received 1.000	Batch#:149349Sampled:03/27/09Received:03/27/09Prepared:03/27/09Analyzed:03/28/09			

Type: MS		Lab ID:	QC489277		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1198	89.29	39.36	44	5-120
Arsenic	3.132	44.64	39.38	81	65-120
Barium	166.0	89.29	170.3	5 *	40-141
Beryllium	0.2222	2.232	2.083	83	75-120
Cadmium	0.2244	8.929	7.570	82	63-120
Chromium	6.660	89.29	78.80	81	52-128
Cobalt	6.225	22.32	24.46	82	50-120
Copper	7.171	11.16	14.70	67	38-149
Lead	5.301	89.29	75.75	79	49-124
Molybdenum	1.009	17.86	15.29	80	62-120
Nickel	9.287	22.32	26.88	79	34-148
Selenium	0.4325	44.64	35.44	78	63-120
Silver	0.07522	8.929	7.414	82	66-120
Thallium	<0.1033	44.64	33.07	74	57-120
Vanadium	28.15	22.32	52.87	111	41-146
Zinc	61.56	22.32	88.75	122	25-159

Type: MSD	Lab ID:	QC489	278			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	97.09	45.27	47	5-120	6	31
Arsenic	48.54	42.61	81	65-120	0	24
Barium	97.09	134.6	-32 *	40-141	26	31
Beryllium	2.427	2.247	83	75-120	0	21
Cadmium	9.709	8.321	83	63-120	1	20
Chromium	97.09	86.12	82	52-128	1	25
Cobalt	24.27	26.07	82	50-120	0	26
Copper	12.14	18.00	89	38-149	15	28
Lead	97.09	83.88	81	49-124	2	31
Molybdenum	19.42	16.94	82	62-120	2	20
Nickel	24.27	29.57	84	34-148	4	30
Selenium	48.54	39.14	80	63-120	2	20
Silver	9.709	8.147	83	66-120	1	20
Thallium	48.54	37.13	76	57-120	3	20
Vanadium	24.27	53.40	104	41-146	3	24
Zinc	24.27	87.95	109	25-159	3	33

*= Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



		Zinc			
Lab #:	210988	Location: 4	700 Coliseum	Way Site, Oa	kland
Client:	PES Environmental, Inc.	Prep: E	Prep: EPA 3050B		
Project#:	1148.001.03.002	Analysis: E	PA 6010B		
Analyte:	Zinc	Batch#:	149349		
Matrix:	Soil	Sampled: 03/27/09			
Units:	mg/Kg	Received:	03/27/0	19	
Basis:	as received	Prepared:	03/27/0	9	
Field ID	Type Lab ID	Result	RL	Diln Fac	Analyzed
B-35-0.5	SAMPLE 210988-002	62	1.0	1.000	03/28/09
B-32-1.0	SAMPLE 210988-005	72	1.0	1.000	03/28/09
B-16-0.5	SAMPLE 210988-009	81	1.0	1.000	03/28/09
B-37-1.0	SAMPLE 210988-013	61	1.0	1.000	03/28/09
B-30-0.5	SAMPLE 210988-016	99	1.0	1.000	03/28/09
B-28-1.0	SAMPLE 210988-019	60	1.0	1.000	03/28/09
B-17-0.5	SAMPLE 210988-021	91	1.0	1.000	03/28/09
B-21-0.5	SAMPLE 210988-023	100	1.0	1.000	03/28/09
B-19-0.5	SAMPLE 210988-025	91	1.0	1.000	03/28/09
B-31-0.5	SAMPLE 210988-027	1,300	9.1	10.00	03/30/09
B-33-0.5	SAMPLE 210988-029	70	1.0	1.000	03/28/09
B-22-1.0	SAMPLE 210988-033	70	1.0	1.000	03/28/09
B-24-0.5	SAMPLE 210988-037	100	1.0	1.000	03/28/09
B-26-1.0	SAMPLE 210988-041	25	1.0	1.000	03/28/09
B-25-1.0	SAMPLE 210988-042	55	1.0	1.000	03/28/09
B-27-1.0	SAMPLE 210988-043	84	1.0	1.000	03/28/09
	BLANK OC489274	ND	1.0	1.000	03/28/09



		Zinc		
Lab #:	210988	Location: 470	O Coliseum Way Site, Oa	kland
Client:	PES Environmental, Inc.	Prep: EPA	3050B	
Project#:	1148.001.03.002	Analysis: EPA	6010B	
Analyte:	Zinc	Diln Fac:	1.000	
Field ID:	B-35-0.5	Batch#:	149349	
MSS Lab ID:	210988-002	Sampled:	03/27/09	
Matrix:	Soil	Received:	03/27/09	
Units:	mg/Kg	Prepared:	03/27/09	
Basis:	as received	Analyzed:	03/28/09	

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC489275		25.00	21.05	84	80-120		
BSD	QC489276		25.00	21.74	87	80-120	3	20
MS	QC489277	61.56	22.32	88.75	122	25-159		
MSD	_ QC489278		24.27	87.95	109	25-159	3	33



Lab #:	210988	Location: 470	O Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: MET	HOD
Project#:	1148.001.03.002	Analysis: EPA	. 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC489407	Batch#:	149387
Matrix:	Soil	Prepared:	03/30/09
Units:	mg/Kg	Analyzed:	03/30/09

ND= Not Detected RL= Reporting Limit Page 1 of 1



Lab #:	210988	Location: 4700 Coliseum Way Site, Oakl	and
Client:	PES Environmental, Inc.	Prep: METHOD	
Project#:	1148.001.03.002	Analysis: EPA 7471A	
Analyte:	Mercury	Diln Fac: 1.000	
Matrix:	Soil	Batch#: 149387	
Units:	mg/Kg	Prepared: 03/30/09	
Basis:	as received	Analyzed: 03/30/09	

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC489408	0.5000	0.5210	104	80-120		
BSD	QC489409	0.5000	0.5210	104	80-120	0	20



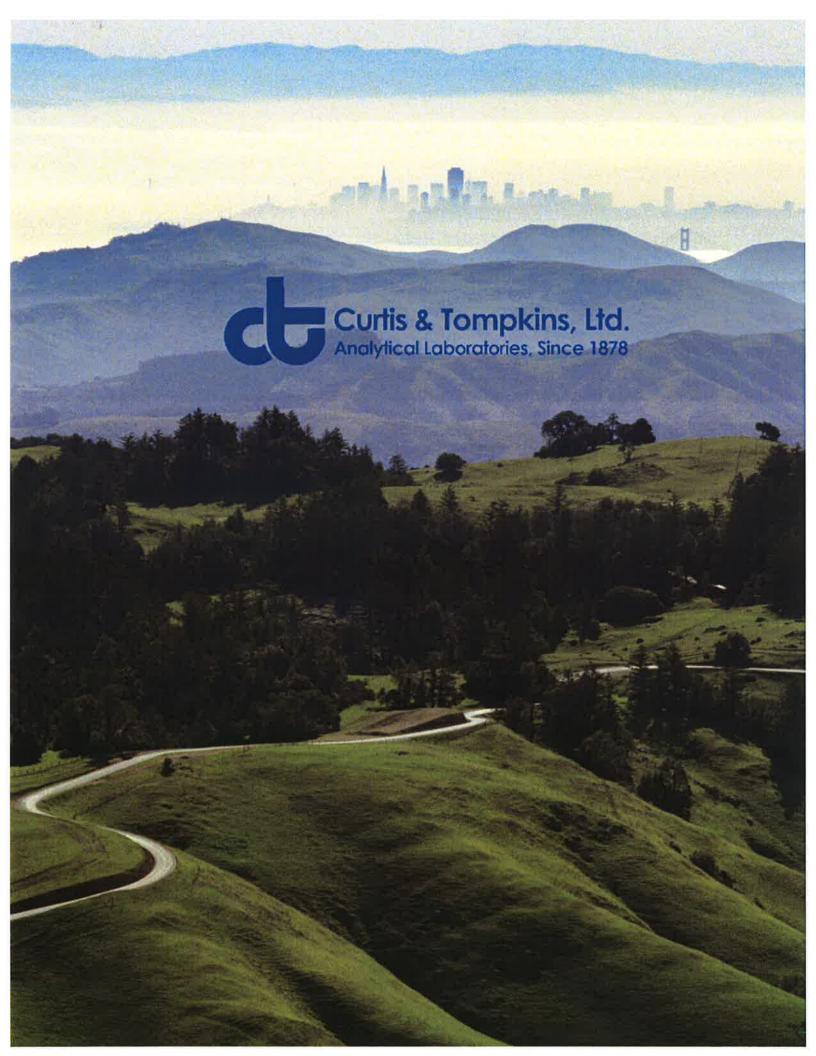
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Lab #:			-
Client:	PES Environmental, Inc.	= = + T	HOD
Project#:	1148.001.03.002	Analysis: EPA	7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	Z Z Z Z Z Z Z Z Z Z Z	Batch#:	149387
MSS Lab ID:	210812-008	Sampled:	03/17/09
Matrix:	Soil	Received:	03/18/09
Units:	mg/Kg	Prepared:	03/30/09
Basis:	as received	Analyzed:	03/30/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC489410	<0.006165	0.5000	0.5330	107	64-138		
MSD	QC489411		0.5102	0.5510	108	64-138	1	27



Lab #:	210988	Location: 47	00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: ME	THOD
Project#:	1148.001.03.002	Analysis: EP.	PA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZ	Batch#:	149387
MSS Lab ID:	210812-013	Sampled:	03/17/09
Matrix:	Soil	Received:	03/18/09
Units:	mg/Kg	Prepared:	03/30/09
Basis:	as received	Analyzed:	03/30/09

Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC489413	<0.006417	0.4902	0.5745	117	64-138		
MSD	QC489414		0.4545	0.4645	102	64-138	14	27





	PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947		:	1148.001.03.002 4700 Coliseum Way Site, Oakland II
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<u>Sample ID</u> <u>Lab ID</u> B-31-1.5 211042-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Manager

Signature:

Senior Program Manager

Date: 04/01/2009

Date: <u>04/02/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 211042 PES Environmental, Inc. 1148.001.03.002 4700 Coliseum Way Site, Oakland 03/31/09 03/27/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 03/31/09. The sample was received intact.

Metals (EPA 6010B):

No analytical problems were encountered.

5

Lisa Bro	ooker	211042
From: To: Cc: Sent: Attach: Subject:	"Gary Thomas, P.G." <gthomas@pesenv.com> "Lisa Brooker" <lisa@ctberk.com> "Kyle S. Flory" <kflory@pesenv.com>; "Chris Baldassari" <cbaldassari@pesenv.cor Tuesday, March 31, 2009 11:16 AM 0651_001.pdf RE: Coliseum Way Site, Oakland - Additional Analyses on COMP-RED sample</cbaldassari@pesenv.cor </kflory@pesenv.com></lisa@ctberk.com></gthomas@pesenv.com>	n>
Hi Lisa – In know if this	n addition, we'd like to analyze sample B-31-1.5 for zinc on 24-hour TAT (see attached s analysis can be done on the requested TAT. 210988-028	CofC). Let me
Thanks, Gary	210100 000	
Sent: Tuese To: Gary Th Cc: Kyle S.	a Brooker [mailto:lisa@ctberk.com] sday, March 31, 2009 11:03 AM Thomas, P.G. . Flory; Chris Baldassari Re: Coliseum Way Site, Oakland - Additional Analyses on COMP-RED sample	
Hi Gary, 72hr tat is n Take care, Lisa	not a problem for TCLP/STLC.	
2323 Fifth Berkeley C 510.204.22 www.curti From: Ga To: Lisa F Cc: Kyle Sent: Tue Subject: Hi Lisa – A	lanager d Tompkins, Ltd h Street CA 94710 2221 tisandtompkins.com inal Message Gary Thomas, P.G. Brooker a S. Flory ; Chris Baldassari Jesday, March 31, 2009 10:59 AM : Coliseum Way Site, Oakland - Additional Analyses on COMP-RED sample As indicated on the attached chain of custody, we would like to run various STLC and P-RED sample. We would like to do the indicated analyses on 72-Hour TAT so please I	TCLP analyses et me know if
Gary		

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NOTES	h 1	CHA	IN OF C	USTODY RECORD		
Turn Around Time: 24 - Have - TAT	PRELINGERSHED BY Province		RECEIVE	DBY: (Signature)	DATE -	TIME
-Select sample for analysis from top of (soil tubes - indicated by RED soil			RECEIVE) BY: (Signature)	DATE	TIME
TUBE end caps, or, as indicated on orange end caps.	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
	RELINQUISHED BY: (Signature)		RECEIVE	DBY: (Signature)	DATE	TIME
	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
Page 3 of 4	METHOD OF SHIPMENT: Drodocal SH an	t Lab				
	Laboratory CORY VELOW Project Office Con	PINK-Field or O	flice Corv			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RE	CEIPT CHECKLIST		Curtis & Torup	kins, Ltd.
Login # Client _ <u>P</u> es	2098 Date Received	3/27/09	Number of coolers - 4700 Colisel	Im Way
Date Opened Date Logged in	3/27/09By (print) By (print)	<i>i9</i> (sign) (sign)	p.e.	
L. Did cooler co Shippin	ome with a shipping slip (airbill, e g info	tc)	YES (N	٥
How m 2B. Were custod 3. Were custod 4. Were custod 5. Is the project	bdy seals present? \Box YES (circleany Name bdy seals intact upon arrival? y papers dry and intact when received y papers filled out properly (ink, section dentifiable from custody papers packing in cooler: (if other, description)	ved? igned, etc)? ? (If so fill out top	Date YES No YES No VES No of form) YES No	C
Cloth	le Wrap material documentation:		[] None [] Paper towels	
Турео	fice used: 📋 Wet 📋 Blue/Ge	I LINone	Temp(°C)	
📋 Sam	ples Received on ice & cold witho	out a temperature t	olank	
📋 Sam	ples received on ice directly from	the field. Cooling	process had begun	
If YES 9. Did all bottl 10. Are sample 11. Are sample 12. Do the sam 13. Was suffic 14. Are the sam 15. Are bubble 16. Was the cli- If YES	od 5035 sampling containers prese , what time were they transferred t es arrive unbroken/unopened? es in the appropriate containers fo e labels present, in good condition uple labels agree with custody pape ient amount of sample sent for test nples appropriately preserved? es > 6mm absent in VOA samples? ient contacted concerning this sam , Who was called?	o freezer? r indicated tests? and complete? ers? s requested? ple delivery?	PUTES NO YES NO YES NO YES NO YES NO	NO NO NO NO NO NO NO
				127
SOP Volume: Section: Page:	Client Services 1.1.2 1 of 4	Z:\qc\forms\checkli	Rev. 6 Nuc Effective: 2 ists\Cooler Receipt Checkl	



		Zinc	
Lab #:	211042	Location: 470	00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	A 3050B
Project#:	1148.001.03.002	Analysis: EPA	A 6010B
Analyte:	Zinc	Batch#:	149470
Field ID:	B-31-1.5	Sampled:	03/27/09
Matrix:	Soil	Received:	03/27/09
Units:	mg/Kg	Prepared:	03/31/09
Basis:	as received	Analyzed:	04/01/09
Diln Fac:	1.000		
Type Lab	ID Result	RL	
SAMPLE 211042	-001 190	1.0	
BLANK QC4897	71 ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



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Batch QC Report

	Zinc			
211042	Location: 4	1700 Coliseum Way Si	te. Oakland	
			co, outraina	
1148.001.03.002	Analysis: E	SPA 6010B		
Zinc	Diln Fac:	1.000		
ZZZZZZZZZ	Batch#:	149470		
211034-003	Sampled:	03/30/09		
Soil	Received:	03/30/09		
mg/Kg	Prepared:	03/31/09		
as received	Analyzed:	04/01/09		
MSS Result	Spiked	Result %REC	Limits RPD) Lim
	1148.001.03.002 Zinc ZZZZZZZZZ 211034-003 Soil mg/Kg as received	211042Location: 4PES Environmental, Inc.Prep:1148.001.03.002Analysis: HZincDiln Fac:ZZZZZZZZZBatch#:211034-003Sampled:SoilReceived:mg/KgPrepared:as receivedAnalyzed:	211042Location: 4700 Coliseum Way SiPES Environmental, Inc.Prep: EPA 3050B1148.001.03.002Analysis: EPA 6010BZincDiln Fac: 1.000ZZZZZZZZZBatch#: 149470211034-003Sampled: 03/30/09SoilReceived: 03/30/09mg/KgPrepared: 03/31/09as receivedAnalyzed: 04/01/09	211042Location: 4700 Coliseum Way Site, OaklandPES Environmental, Inc.Prep: EPA 3050B1148.001.03.002Analysis: EPA 6010BZincDiln Fac: 1.000ZZZZZZZZZBatch#: 149470211034-003Sampled: 03/30/09SoilReceived: 03/30/09mg/KgPrepared: 03/31/09as receivedAnalyzed: 04/01/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC489772		25.00	24.62	98	80-120		
BSD	QC489773		25.00	22.66	91	80-120	8	20
MS	QC489774	50.10	23.15	73.92	103	25-159		
MSD	QC489775		24.51	75.78	105	25-159	1	33

PES Environmental, Inc.

RESULTS FOR NEAR SURFACE SAMPLE LOCATIONS B-37 (4/3/2009) THROUGH B-50



and a section time and

B



PES Environmental, Inc.	Project : 1148.001.03.002
1682 Novato Boulevard	Location : 4700 Coliseum Way Site, Oakland
Novato, CA 94947	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
B-37-1.0	211153-001
B-38-1.0	211153-002
B-39-1.0	211153-003
B-40-1.0	211153-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Manager

Signature:

Senior Program Manager

Date: 04/09/2009

Date: <u>04/15/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 211153 PES Environmental, Inc. 1148.001.03.002 4700 Coliseum Way Site, Oakland 04/03/09 04/03/09

This data package contains sample and QC results for four soil samples, requested for the above referenced project on 04/03/09. The samples were received intact.

Metals (EPA 6010B):

High recovery was observed for zinc in the MS for batch 149618; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was also observed for zinc in the MS/MSD for batch 149618; the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

PES Environmental, Inc. Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

SAMPLERS: Gary Thomas / Kyle Flory

1682 NOVATO BOULEVARD, SUITE 100 NOVATO, CALIFORNIA 94947 (415) 899-1600 FAX (415) 899-1601

ANALYSIS REQUESTED

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LABORATORY:		Ŧ	1

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JOB NUMBER: 1148.001.03.002

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		DATE					SAM		NUM	BER /		1-			+	<u> </u>	ĩ	8	Pres	ervat	ives	1.1	_	DEPTH	5/801	08/9	5035	8015	80	ame	3	9		
	мо	D	Y	TIN	1E				ANATI		Vapor	Water	Soil	Sedim't		Unpres.	HoSO.	HNO3	ΕŪ					IN FEET	EPA 5035/8010	EPA 5035/8021	EPA 5035/82608 TPHa bv 5035/8015M	TPHd by 8015M	TPHmo b	EPA 82/0U MNA Parameters (see notes)	Leud	717		
>	04	0	3 1	3	0 5	5 B	-3	7 + .	1,0				x			1																x		
	04	10	31	3	10	B	-36	3+	10				×		1	1																x		
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RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE	TIME RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT: DICORPORT OFF	a + Lab		<u> </u>
	RELINQUISHED BY: (Signature) DISPATCHED BY: (Signature) DATE METHOD OF SHIPMENT:	RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE DISPATCHED BY: (Signature) DATE TIME METHOD OF SHIPMENT: Dispace of the set

COOLER RECEIPT CHECKLIST	Curtis & Tompkins, Ltd.
Login # $21/152$ Date Received $4/7/09$ Client <u>PES</u> Project <u>4600</u> Date Opened <u>$4/3/01$</u> By (print) <u>Phyong</u> (sign) Date Logged in <u>By</u> (print) (sign)	Number of coolers D - 4700 (2/1 Senan Way SIG Jouldand CH
Date Opened ///// By (print) ////// (sign) Date Logged in // By (print) (sign)	
1. Did cooler come with a shipping slip (airbill, etc) Shipping info	
 2A. Were custody seals present? YES (circle) on cooler How many Name 2B. Were custody seals intact upon arrival? 3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top 6. Indicate the packing in cooler: (if other, describe) 	YES_NO YES_NO (TES_NO of form)YES_NO
Bubble Wrap Foam blocks Bags Cloth material Cardboard Styrofoam 7. Temperature documentation: Image: Cardboard Image: Cardboard	$\square Paper towels$
Type of ice used: 🗌 Wet 🔄 Blue/Gel 🔂 None	Temp(°C)
Samples Received on ice & cold without a temperature l	blank ·
Samples received on ice directly from the field. Cooling	process had begun
 8. Were Method 5035 sampling containers present?	YES NO YES NO YES NO YES NO YES NO YES NO YES NO YES NO
SOP Volume: Client Services Section: 1.1.2 Page: 1 of 1 Z:\qc\forms\check	······································

4 of 6



Lab #:	211153	Location:	4700 Coliseum Way Site, Oakland	
Client:	PES Environmental, Inc.	Prep: I	EPA 3050B	
Project#:	1148.001.03.002	Analysis: I	EPA 6010B	
Analyte:	Zinc	Diln Fac:	1.000	
Field ID:	ZZZZZZZZZ	Batch#:	149618	
MSS Lab ID:	211070-010	Sampled:	03/31/09	
Matrix:	Soil	Received:	03/31/09	
Units:	mg/Kg	Prepared:	04/03/09	
Basis:	as received	Analyzed:	04/06/09	

Туре	LaD ID	MSS Result	Spiked	Result	*REC	LIMITS	RPD	LIM
BS	QC490389		25.00	24.77	99	80-120		
BSD	QC490390		25.00	23.31	93	80-120	6	20
MS	QC490391	27.34	23.81	67.08	167 *	25-159		
MSD	QC490392		23.58	45.95	79	25-159	37 *	33

CUrtis & Tompkins, Ltd. Analytical Laboratories, Since 1878

and to Real family

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Sample ID	Lab ID
STOCK-1	211344-001
STOCK-2	211344-002
STOCK-3	211344-003
STOCK-4	211344-004
TANK FLUID	211344-005
B-41-0	211344-006
B-42-0	211344-007
B-43-0	211344-008
STOCK-1,2,3,4 COMPOSITE	211344-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

TMR Signature: Project Manager Signature:

Date: 04/22/2009

Date: <u>04/24/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received:

211344 PES Environmental, Inc. 1148.001.03 4700 Coliseum Way Site, Oakland 04/10/09 04/10/09

This data package contains sample and QC results for four soil samples and one water sample, requested for the above referenced project on 04/10/09. The samples were received cold and intact.

<u>TPH-Purgeables and/or BTXE by GC (EPA 8015B):</u>

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

Hexachlorobutadiene was detected above the RL in the method blank for batch 149923; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for chromium, molybdenum, and nickel in the MS/MSD for batch 149860; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was observed for antimony; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

LABORATORY CUTTS 4 JOB NUMBER: 1148,001 NAME / LOCATION: 4700 Colle PROJECT MANAGER: KSF	nental, Inc. Imental Services Tompkins 03 Seun Wy, Daklam	CHAIN	B / LM	STODY F Q	RECOR 344	(41)	NOVATO BOUL RD, SUITE 1 NOVATO, CARFORNIA 94947 5) 899-1600 CAX (415) 899-160 ALYSIS RECUESTED C	
			BIM	Containers	1	0 08 08 015 M 80 15 M	8 7 7 8 8 8 A	
DATE (6 ⁻¹ (q) YR MO DY TIME	SAMPLE NUMBER / DESIGNATION	XIALTEM Vater Sedim't		eservatives	DEPTH IN FEET	EPA 5035/8010 EPA 5035/8021 EPA 5035/8021 EPA 5035/8015M TPHd by 8015M TPHmo by 8015M	MNA Parameters (see NOCS by 820 Title 22 M Flue Scan, pung hydrocuto Hydrocuto	NoTE :
10904101000 211111005 31111010 411015 51111015 51111015 51111015 51111015 51111015							$\begin{array}{c c} & \times & \times \\ & \times & \times$	***

NOTES		CHA	AIN OF C	USTODY RECORD		
Turn Around Time: 48-how TAT	RELINQUISHED BY: (Symauro)		REPEIVE	DBY: (Signature)	DATE 4-10-04	TIME
* Please composite samples Stock-1	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
through Stock-4 and analyze as a single composite - do not run discretes.	RELINQUISHED BY: (Signature)		RECEIVE	DBY: (Signature)	DATE	TIME
a single composite - do not run discretes.	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
	METHOD OF SHIPMENT:		1			
	ITE-Laboratory COPY YELLOW-Project Office Copy	PINK-Field or O	ffice Copy			

	ECEIPT CHE			Curtis &	Tompkins, Ltd	
$\begin{array}{c} \text{Login } \# \\ \text{Client } \underline{//} \end{array}$	11 344 ES	Date Received 9 Proj (print) <i>Philly</i> (print)	10 09 ect 4700	Number of coole	us IVAU,	Dateland
Date Opened Date Logged i	4/10/09 By	(print) Philip	29 <u>4</u> (sign) (sign)	Ple		
1 Did cooler	come with a shi	pping slip (airbill, etc)	YE	(\neg)	
How a 2B. Were custo 3. Were custo 4. Were custo 5. Is the proje	nany tody seals intact dy papers dry a dy papers filled ect identifiable f	nt? [] YES (circl Name upon arrival? nd intact when receive out properly (ink, sig from custody papers? ler: (if other, describ	ed? ned, etc)? (If so fill out top	Date YE	SDNO SDNO SNO	ż
DBub Clot 7. Temperatur	ble Wrap h material e documentatio	 Foam blocks Cardboard 	∐Bags □ Styrofoam	□ None □ Paper to Temp(°C)	owels	
D San	nples Received	on ice & cold withou	t a temperature b	lank		
🗌 San	nples received of	on ice directly from th	e field. Cooling	process had begu	un	
 Were Meth If YES Did all bott Are samp Are samp Are samp Both sam Was sufficient Are the sam Are bubble Was the classifiert Was the classifiert 	and 5035 samples, what time we les arrive unbroutes in the appro- e labels present inple labels agrection inples appropria es > 6mm absertion fient contacted of the was call	ing containers present re they transferred to	? freezer? id complete? ? requested? e delivery?	·	YES NO YES NO YES NO YES NO YES NO YES NO NO N/A YES NO	
						*
SOP Volume: Section: Page:	Client Services 1.1.2 1 of 1	2	.\qc\forms\checklis	Effectiv	6 Number 1 of 3 ve: 23 July 2008 hecklist_rv6.doc	

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		Total	Volatil	le Hydroca	rbons	
Lab #:	211344			Location:	4700 C	coliseum Way Site, Oakland
Client:	PES Environm	ental, 1	Inc.	Prep:	EPA 50	
Project#:	1148.001.03			Analysis:	EPA 80	15B
Field ID:	TANK FLUID			Batch#:		149843
Matrix:	Water			Sampled:		04/10/09
Units:	ug/L			Received:		04/10/09
Diln Fac:	1.000					
Гуре:	SAMPLE			Analyzed:		04/11/09
Lab ID:	211344-005			Anaryzeu:		V-1/11/V9
Δ	nalyte		Result		RL	
Gasoline C7-		NI			50	
Gaborrine o,	012		,			
	rrogate	%REC	Limits			
Trifluorotol		89	63-146			
Bromofluorob	enzene (FID)	93	70-140			
Type:	BLANK			Analyzed:		04/10/09
Lab ID:	QC491322			-		
	nalyte		Result		RL	
Gasoline C7-	C12	NI)		50	
Su	rrogate	%REC	Limits			
Trifluorotol	uene (FID)	104	63-146			
D	enzene (FID)	102	70-140			



Total Volatile Hydrocarbons								
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland						
Client:	PES Environmental, Inc.	Prep: EPA 5030B						
Project#:	1148.001.03	Analysis: EPA 8015B						
Type:	LCS	Diln Fac: 1.000						
Lab ID:	QC491323	Batch#: 149843						
Matrix:	Water	Analyzed: 04/10/09						
Units:	ug/L	-						

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,762	88	76-121

Surrogate	*REC	Limits
Trifluorotoluene (FID)	143	63-146
Bromofluorobenzene (FID)	110	70-140



Total Volatile Hydrocarbons						
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland				
Client:	PES Environmental, Inc.	Prep: EPA 5030B				
Project#:	1148.001.03	Analysis: EPA 8015B				
Field ID:	ZZZZZZZZZ	Batch#: 149843				
MSS Lab ID:	211295-001	Sampled: 04/07/09				
Matrix:	Water	Received: 04/08/09				
Units:	ug/L	Analyzed: 04/10/09				
Diln Fac:	1.000	-				

Туре:	MS			Lab ID:		QC491324		
	Analyte	MSS Re	sult	Spik	ed	Result	*REC	Limits
Gasoline (C7-C12	51	.7.4	2,00	0	2,232	86	66-120
	Surrogate	*REC	Limits					
Trifluorot	toluene (FID)	137	63-146					
Bromofluo	robenzene (FID)	116	70-140					
Туре:	MSD			Lab ID:	,	QC491325		
	Analyte		Spiked		Result	*REC	Limits	RPD Lim
Gasoline (C7-C12		2,000		2,306	89	66-120	3 20

Surrogate	*REC	Limits	
Trifluorotoluene (FID)	133	63-146	
Bromofluorobenzene (FID)	114	70-140	



Total Extractable Hydrocarbons						
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland				
Client:	PES Environmental, Inc.	Prep: EPA 3520C				
Project#:	1148.001.03	Analysis: EPA 8015B				
Field ID:	TANK FLUID	Sampled: 04/10/09				
Matrix:	Water	Received: 04/10/09				
Units:	ug/L	Prepared: 04/10/09				
Diln Fac:	1.000	Analyzed: 04/14/09				
Batch#:	149857					

Analyte	Result	RL	
Diesel C10-C24	1,500 Y	50	
Motor Oil C24-C36	820	300	
Surrogate	%REC Limits		
o-Terphenyl	106 61-127		

Гуре:	BLANK			Lab ID:	QC491373	
	Analyte		Result	RI		
Diesel C10-	-C24	ND	1	Į.	50	
Motor Oil C	C24-C36	ND]	30	00	
	Surrogate	*REC	Limits			
o-Terpheny]	1	112	61-127			

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 1 of 1



		table Undressrborg
	TOTAL EXTRAC	table Hydrocarbons
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3520C
Project#:	1148.001.03	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC491374	Batch#: 149857
Matrix:	Water	Prepared: 04/10/09
Units:	ug/L	Analyzed: 04/14/09

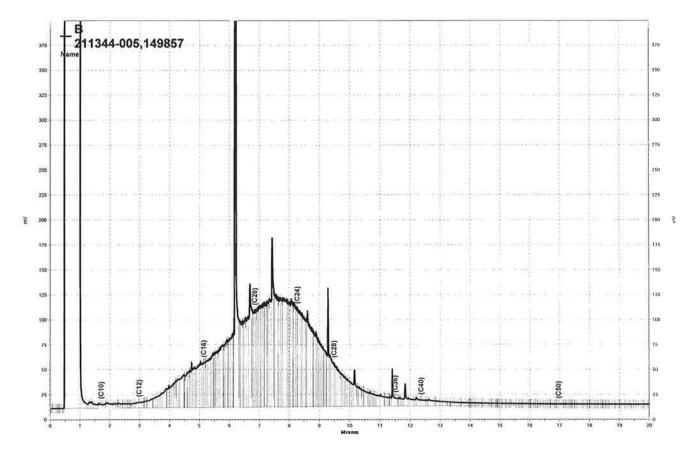
Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24		2,500	1,940	78	50-120
Surrogate	%REC	Limits			

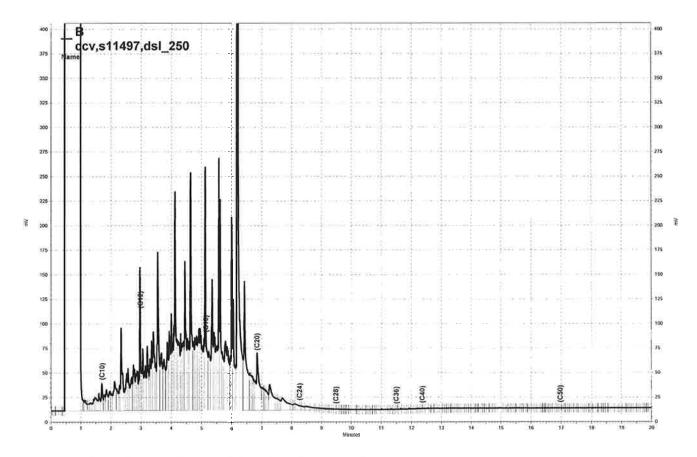


Batch	QC	Report	
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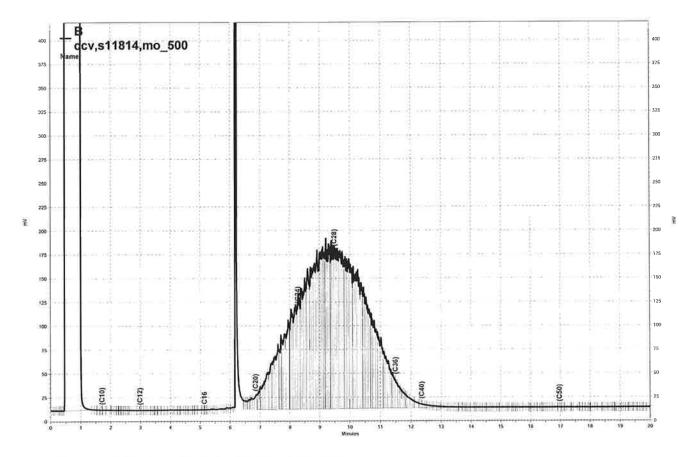
Lab #:	211344			Location: 4700	Coliseum Way	Site, Oak	land	
Client:	PES Environme	ental, I	nc.		3520C	,		
Project#:	1148.001.03	,		Analysis: EPA				
Field ID:	ZZZZZZZZZZ			Batch#:	149857			
MSS Lab ID:	211295-001			Sampled:	04/07/09			
Matrix:	Water			Received:	04/08/09			
Units:	ug/L			Prepared:	04/10/09			
Diln Fac:	1.000			Analyzed:	04/20/09			
Type: Lab ID: Analy Diesel C10-C24		MSS Res	ult	Cleanup Method Spiked 2,500	EPA 3630C Result 2,025	%REC	Limi 38-1	
510001 010 011				-,				
Surr	ogate	%REC	Limits					
o-Terphenyl		75	61-127					
	MSD			Cleanup Method	: EPA 3630C			
	QC491376							
'ype: .ab ID: Ana	QC491376		Spiked	Resu	lt %RE	EC Limits	RPD	Li
ab ID:	lyte		Spiked 2,500	Resu 2,04		EC Limits 38-127	RPD 1	Li 37



- \\Lims\gdrive\ezchrom\Projects\GC14B\Data\103b050, B



//Lims\gdrive\ezchrom\Projects\GC14B\Data\103b045, B



- \\Lims\gdrive\ezchrom\Projects\GC14B\Data\103b046, B



	Purgeable Org	anics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Field ID:	TANK FLUID	Batch#: 149923
Lab ID:	211344-005	Sampled: 04/10/09
Matrix:	Water	Received: 04/10/09
Units:	ug/L	Analyzed: 04/14/09
Diln Fac:	1.000	

Analyte	Result	RL	
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Acetone	ND	10	
Freon 113	ND	5.0	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected RL= Reporting Limit Page 1 of 2



2	Purgeable O	rganics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Field ID:	TANK FLUID	Batch#: 149923
Lab ID:	211344-005	Sampled: 04/10/09
Matrix:	Water	Received: 04/10/09
Units:	ug/L	Analyzed: 04/14/09
Diln Fac:	1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	*REC	Limits	
Dibromofluoromethane	99	80-122	
1,2-Dichloroethane-d4	109	77-137	
Toluene-d8	101	80-120	
Bromofluorobenzene	96	80-125	

ND= Not Detected RL= Reporting Limit Page 2 of 2



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	Purgeable O	rganics by GC/MS
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 5030B Analysis: EPA 8260B
Type: Lab ID: Matrix: Units:	BLANK QC491642 Water ug/L	Diln Fac: 1.000 Batch#: 149923 Analyzed: 04/14/09

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
	ND	10
Acetone	ND	5.0
Freon 113		0.5
1,1-Dichloroethene	ND	
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
	ND	0.5
Benzene	ND	0.5
Trichloroethene		0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	
4-Methyl-2-Pentanone	ND	
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m, p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
	ND	0.5
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane		0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5

b= See narrative ND= Not Detected RL= Reporting Limit Page 1 of 2



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Batch QC Report

	Purgeal	ole Org	anics by	GC/MS
Lab #: 211344 Client: PES Environme Project#: 1148.001.03	ental, In	с.	Prep: Analysis:	4700 Coliseum Way Site, Oakland EPA 5030B EPA 8260B
Type: BLANK Lab ID: OC491642			Diln Fac: Batch#:	1.000 149923
Matrix: Water			Analyzed:	
Units: ug/L				
Analyte		esult		RL
4-Chlorotoluene	ND			0.5
tert-Butylbenzene	ND			0.5 0.5
1,2,4-Trimethylbenzene	ND ND			0.5
sec-Butylbenzene	ND			0.5
para-Isopropyl Toluene	ND ND			0.5
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND			0.5
n-Butylbenzene	ND			0.5
1,2-Dichlorobenzene	ND			0.5
1,2-Dibromo-3-Chloropropane	ND			0.5
1,2,4-Trichlorobenzene	ND			0.5
Hexachlorobutadiene	110	0.5 b		0.5
Naphthalene	ND			2.0
1,2,3-Trichlorobenzene	ND			0.5
Surrogate		Limits		
Dibromofluoromethane		80-122		
1,2-Dichloroethane-d4	100000000000000000000000000000000000000	77-137		
Toluene-d8		80-120		
Bromofluorobenzene	96	80-125		



	Purgeable Org	anics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Matrix:	Water	Batch#: 149923
Units:	ug/L	Analyzed: 04/14/09
Diln Fac:	1.000	

Type: BS	Lab I	D: QC49	1640		
Analyte	Spiked	Result	*REC	Limits	
1,1-Dichloroethene	20.00	18.82	94	74-132	
Benzene	20.00	21.83	109	80-120	
Trichloroethene	20.00	21.48	107	80-120	
Toluene	20.00	21.87	109	80-120	
Chlorobenzene	20.00	22.19	111	80-120	

Surrogate	%REC	Limits	
Dibromofluoromethane	99	80-122	
1,2-Dichloroethane-d4	111	77-137	
Toluene-d8	101	80-120	
Bromofluorobenzene	92	80-125	

Type: BSD		I	ab ID:	QC4	91641			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene		20.00		16.69	83	74-132	12	20
Benzene		20.00		19.87	99	80-120	9	20
Trichloroethene		20.00		19.50	98	80-120	10	20
Toluene		20.00		20.07	100	80-120	9	20
Chlorobenzene		20.00		20.21	101	80-120	9	20
Surrogate	*REC	Limits						
Dibromofluoromethane	98	80-122						
1,2-Dichloroethane-d4	109	77-137						
Toluene-d8	100	80-120						
Bromofluorobenzene	93	80-125						



	Purgeable Org	anics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Field ID:	STOCK-1,2,3,4 COMPOSITE	Diln Fac: 0.8772
Lab ID:	211344-009	Batch#: 149831
Matrix:	Soil	Sampled: 04/10/09
Units:	ug/Kg	Received: 04/10/09
Basis:	as received	Analyzed: 04/10/09

Analyte	Result	RL	
Freon 12	ND	8.8	
Chloromethane	ND	8.8	
Vinyl Chloride	ND	8.8	
Bromomethane	ND	8.8	
Chloroethane	ND	8.8	
Trichlorofluoromethane	ND	4.4	
Acetone	ND	8.8	
Freon 113	ND	4.4	
1,1-Dichloroethene	ND	4.4	
Methylene Chloride	ND	18	
Carbon Disulfide	ND	4.4	
MTBE	ND	4.4	
trans-1,2-Dichloroethene	ND	4.4	
Vinyl Acetate	ND	44	
1,1-Dichloroethane	ND	4.4	
2-Butanone	ND	8.8	
cis-1,2-Dichloroethene	ND	4.4	
2,2-Dichloropropane	ND	4.4	
Chloroform	ND	4.4	
Bromochloromethane	ND	4.4	
1,1,1-Trichloroethane	25	4.4	
1,1-Dichloropropene	ND	4.4	
Carbon Tetrachloride	ND	4.4	
1,2-Dichloroethane	ND	4.4	
Benzene	ND	4.4	
Trichloroethene	ND	4.4	
1,2-Dichloropropane	ND	4.4	
Bromodichloromethane	ND	4.4	
Dibromomethane	ND	4.4	
4-Methyl-2-Pentanone	ND	8.8	
cis-1,3-Dichloropropene	ND	4.4	
Toluene	ND	4.4	
trans-1,3-Dichloropropene	ND	4.4	
1,1,2-Trichloroethane	ND	4.4	
2-Hexanone	ND	8.8	
1,3-Dichloropropane	ND	4.4	
Tetrachloroethene	ND	4.4	

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS						
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland				
Client:	PES Environmental, Inc.	Prep: EPA 5030B				
Project#:	1148.001.03	Analysis: EPA 8260B				
Field ID:	STOCK-1,2,3,4 COMPOSITE	Diln Fac: 0.8772				
Lab ID:	211344-009	Batch#: 149831				
Matrix:	Soil	Sampled: 04/10/09				
Units:	ug/Kg	Received: 04/10/09				
Basis:	as received	Analyzed: 04/10/09				

Analyte	Resu	lt RL	
Dibromochloromethane	NĎ	4.4	
1,2-Dibromoethane	ND	4.4	
Chlorobenzene	ND	4.4	
1,1,1,2-Tetrachloroethane	ND	4.4	
Ethylbenzene	ND	4.4	
m,p-Xylenes	ND	4.4	
o-Xylene	ND	4.4	
Styrene	ND	4.4	
Bromoform	ND	4.4	
Isopropylbenzene		4.8 4.4	
1,1,2,2-Tetrachloroethane	ND	4.4	
1,2,3-Trichloropropane	ND	4.4	
Propylbenzene	1	1 4.4	
Bromobenzene	ND	4.4	
1,3,5-Trimethylbenzene	ND	4.4	
2-Chlorotoluene	ND	4.4	
4-Chlorotoluene	ND	4.4	
tert-Butylbenzene	ND	4.4	
1,2,4-Trimethylbenzene		9.9 4.4	
sec-Butylbenzene	1	1 4.4	
para-Isopropyl Toluene	ND	4.4	
1,3-Dichlorobenzene	ND	4.4	
1,4-Dichlorobenzene	ND	4.4	
n-Butylbenzene	1	3 4.4	
1,2-Dichlorobenzene	ND	4.4	
1,2-Dibromo-3-Chloropropane	ND	4.4	
1,2,4-Trichlorobenzene	ND	4.4	
Hexachlorobutadiene	ND	4.4	
Naphthalene		6.4 4.4	
1,2,3-Trichlorobenzene	ND	4.4	

Surrogate	*REC	Limits	
Dibromofluoromethane	85	71-128	
1,2-Dichloroethane-d4	100	69-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	127	77-131	

ND= Not Detected RL= Reporting Limit Page 2 of 2



Purgeable Organics by GC/MS					
Lab #:	211344	Location: 4700 Col	liseum Way Site, Oakland		
Client:	PES Environmental, Inc.	Prep: EPA 5030	Эв		
Project#:	1148.001.03	Analysis: EPA 8260	ОВ		
Type:	BLANK	Basis: a	as received		
Lab ID:	QC491267	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	149831		
Units:	ug/Kg	Analyzed: (04/10/09		

Analyte	Result	RL	
Freon 12	ND	10	
Chloromethane	ND	10	
Vinyl Chloride	ND	10	
Bromomethane	ND	10	
Chloroethane	ND	10	
Trichlorofluoromethane	ND	5.0	
Acetone	ND	10	
Freon 113	ND	5.0	
1,1-Dichloroethene	ND	5.0	
Methylene Chloride	ND	20	
Carbon Disulfide	ND	5.0	
MTBE	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
Vinyl Acetate	ND	50	
1,1-Dichloroethane	ND	5.0	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	5.0	
2,2-Dichloropropane	ND	5.0	
Chloroform	ND	5.0	
Bromochloromethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
1,1-Dichloropropene	ND	5.0	
Carbon Tetrachloride	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Trichloroethene	ND	5.0	
1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0	
Dibromomethane	ND	5.0	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	5.0	
Toluene	ND	5.0	
trans-1,3-Dichloropropene	ND	5.0	
1,1,2-Trichloroethane	ND	5.0	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	5.0	
Tetrachloroethene	ND	5.0	

ND= Not Detected

RL≓ Reporting Limit

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Purgeable Organics by GC/MS						
Lab #:	211344	Location: 4700) Coliseum Way Site, Oakland			
Client:	PES Environmental, Inc.	Prep: EPA	5030B			
Project#:	1148.001.03	Analysis: EPA	8260B			
Type:	BLANK	Basis:	as received			
Lab ID:	QC491267	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	149831			
Units:	ug/Kg	Analyzed:	04/10/09			

Analyte	Result	RL	
Dibromochloromethane	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Chlorobenzene	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	
Styrene	ND	5.0	
Bromoform	ND	5.0	
Isopropylbenzene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
1,2,3-Trichloropropane	ND	5.0	
Propylbenzene	ND	5.0	
Bromobenzene	ND	5.0	
1,3,5-Trimethylbenzene	ND	5.0	
2-Chlorotoluene	ND	5.0	
4-Chlorotoluene	ND	5.0	
tert-Butylbenzene	ND	5.0	
1,2,4-Trimethylbenzene	ND	5.0	
sec-Butylbenzene	ND	5.0	
para-Isopropyl Toluene	ND	5.0	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND	5.0	
n-Butylbenzene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2,4-Trichlorobenzene	ND	5.0	
Hexachlorobutadiene	ND	5.0	
Naphthalene	ND	5.0	
1,2,3-Trichlorobenzene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	87	71-128	
1,2-Dichloroethane-d4	101	69-135	
Toluene-d8	104	80-120	
Bromofluorobenzene	88	77-131	

ND= Not Detected RL= Reporting Limit Page 2 of 2



5 at 10	Purgeable On	rganics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Matrix:	Soil	Diln Fac: 1.000
Units:	ug/Kg	Batch#: 149831
Basis:	as received	Analyzed: 04/10/09

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.10	92	73-135
Benzene	25.00	25.90	104	80-125
Trichloroethene	25.00	27.03	108	80-127
Toluene	25.00	26.21	105	80-126
Chlorobenzene	25.00	27.84	111	80-120

Durrogute	01420		
Dibromofluoromethane	92	71-128	
1,2-Dichloroethane-d4	99	69-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	90	77-131	

Type: BSD	Lab I	D: QC491	269			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.16	85	73-135	9	20
Benzene	25.00	25.75	103	80-125	1	20
Trichloroethene	25.00	26.79	107	80-127	1	20
Toluene	25.00	24.90	100	80-126	5	20
Chlorobenzene	25.00	27.67	111	80-120	1	20
Surrogate	%REC Limits					
Dibromofluoromethane	95 71-128					
1,2-Dichloroethane-d4	102 69-135					
Toluene-d8	101 80-120					
Bromofluorobenzene	88 77-131					



Purgeable Organics by GC/MS					
Lab #:	211344	Location: 470	00 Coliseum Way Site, Oakland		
Client:	PES Environmental, Inc.	Prep: EPA	A 5030B		
Project#:	1148.001.03	Analysis: EPA	A 8260B		
Field ID:	ZZZZZZZZZ	Diln Fac:	0.9901		
MSS Lab ID:	211320-001	Batch#:	149831		
Matrix:	Soil	Sampled:	04/08/09		
Units:	ug/Kg	Received:	04/09/09		
Basis:	as received	Analyzed:	04/10/09		

Type:

MS

QC491364

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9901	49.50	43.71	88	58-145
Benzene	<0.9901	49.50	46.16	93	56-126
Trichloroethene	<0.9901	49.50	48.96	99	50-142
Toluene	<0.9901	49.50	44.30	89	52-125
Chlorobenzene	<0.9901	49.50	49.84	101	46-120

Lab ID:

Surrogate	*REC	Limits	
Dibromofluoromethane	88	71-128	
1,2-Dichloroethane-d4	88	69-135	
Toluene-d8	94	80-120	
Bromofluorobenzene	89	77-131	

Type: MSD	Lab I	D: QC49	1365			
Analyte	Spiked	Result	*REC	Limits	RPD	Lim
1,1-Dichloroethene	49.50	41.56	84	58-145	5	28
Benzene	49.50	44.68	90	56-126	3	26
Trichloroethene	49.50	48.43	98	50-142	1	29
Toluene	49.50	44.32	90	52-125	0	29
Chlorobenzene	49.50	46.29	94	46-120	7	29
Surrogate	<pre>%REC Limits</pre>					
Dibromofluoromethane	87 71-128					

Surrogate	*REC	LIMICS	
Dibromofluoromethane	87	71-128	
1,2-Dichloroethane-d4	89	69-135	
Toluene-d8	96	80-120	
Bromofluorobenzene	86	77-131	



		Lead			
Lab #:	211344	Location: 47	00 Coliseum Wa	y Site,	Oakland
Client:	PES Environmental, Inc.	Prep: EP.	A 3050B		
Project#:	1148.001.03	Analysis: EP.	A 6010B		
Analyte:	Lead	Batch#:	149860		
Matrix:	Soil	Sampled:	04/10/09		
Units:	mg/Kg	Received:	04/10/09		
Basis:	as received	Prepared:	04/10/09		
Field ID	Type Lab ID	Result	RL	Diln Fa	ac Analyzed

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
B-41-0	SAMPLE	211344-006	1,900	1.3	10.00	04/13/09
B-42-0	SAMPLE	211344-007	410	0.25	1.000	04/11/09
B-43-0	SAMPLE	211344-008	200	0.25	1.000	04/11/09
	BLANK	QC491383	ND	0.25	1.000	04/11/09

ND= Not Detected RL= Reporting Limit Page 1 of 1



				Lead	1				12-1,14
Lab #	:	211344		Lo	cation:	4700 Coli:	seum Way	Site, Oa	kland
Clien	t:	PES Environm	ental, Inc.	Pr	ep:	EPA 3050B			
Proje	ct#:	1148.001.03		An	alvsis:	EPA 6010B			
Analy	te:	Lead		Ba	sis:	as	receive	d	
Field	ID:	ZZZZZŻZZZZ		Ba	tch#:	14	9860		
MSS L	ab ID:	211344-006		Sa	mpled:	04	/10/09		
Matri	x:	Soil		Re	ceived:	04	/10/09		
Units	:	mg/Kg		Pr	epared:	04	/10/09		
Type	Lab ID	MSS Result	Spiked	Result	&REC	Limits 1	RPD Lim	Diln Fac	
BS	QC491384		100.0	95.20	95	80-120		1.000	04/11/09
BSD	QC491385		100.0	95.30	95	80-120	0 20	1.000	04/11/09
MS	QC491386	1,908	93.46	684.3	-1310 M	VM 49-124		10.00	04/13/09
MSD	QC491387		90.91	663.0	-1370 M	MM 49-124	3 31	10.00	04/13/09



		Califor	nia Ti	tle 22 M	letals	11.10	
Lab #:	211344			Project#:	1148.001.0)3	
Client:	PES Environment	tal, Inc.				seum Way Sit	e, Oakland
Field ID:	STOCK-1,2,3,4	COMPOSITE	. 1	Basis:	as	received	
Lab ID:	211344-009		1	Diln Fac:	1.0	000	
Matrix:	Soil			Sampled:	04/	/10/09	
Units:	mg/Kg]	Received:	04/	/10/09	
Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50		04/10/09		EPA 3050B	EPA 6010B
Arsenic	5.4	0.25		04/10/09		EPA 3050B	EPA 6010B
Barium	280	0.25		04/10/09		EPA 3050B	EPA 6010B
Bervllium	0.42	0.10	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Chromium	47	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Cobalt	8.2	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Copper	17	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Lead	37	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Mercury	0.099	0.020	149892	04/13/09	04/13/09	METHOD	EPA 7471A
Molybdenum	0.43	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Nickel	56	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Selenium	ND	0.50	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Silver	ND	0.25	149860	04/10/09		EPA 3050B	EPA 6010B
Thallium	ND	0.50	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Vanadium	32	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Zinc	72	1.0	149860	04/10/09	04/13/09	EPA 3050B	EPA 6010B



	California	Title 22 Meta	als
Lab #:	211344	Location: 470	00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	A 3050B
Project#:	1148.001.03	Analysis: EPA	A 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC491383	Batch#:	149860
Matrix:	Soil	Prepared:	04/10/09
Units:	mg/Kg	Analyzed:	04/11/09
Basis:	as received		

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.25	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 22 Metals				
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B		
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: 149860 Prepared: 04/10/09 Analyzed: 04/11/09		

Type: BS	Lab I	D: QC491	384	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	105.4	105	80-120
Arsenic	50.00	49.98	100	80-120
Barium	100.0	104.9	105	80-120
Beryllium	2.500	2.723	109	80-120
Cadmium	10.00	9.876	99	80-120
Chromium	100.0	101.0	101	80-120
Cobalt	25.00	24.43	98	80-120
Copper	12.50	12.32	99	80-120
Lead	100.0	95.20	95	80-120
Molybdenum	20.00	21.35	107	80-120
	25.00	24.66	99	80-120
Nickel	50.00	47.99	96	80-120
Selenium	10.00	10.08	101	80-120
Silver	50.00	47.51	95	80-120
Thallium	25.00	25.99	104	80-120
Vanadium		22.44	90	80-120
Zinc	25.00	22.44	50	00 120

Type: BS	D	Lab I	D: QC491	385			
Analyte	e da la companya da l	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	105.7	106	80-120	0	20
Arsenic		50.00	49.84	100	80-120	0	20
Barium		100.0	107.4	107	80-120	2	20
Beryllium		2.500	2.789	112	80-120	2	20
Cadmium		10.00	10.13	101	80-120	3	20 20
Chromium		100.0	103.0	103	80-120	2	20
Cobalt		25.00	25.07	100	80-120	3	20
Copper		12.50	12.60	101	80-120	2	20
Lead		100.0	95.30	95	80-120	0	20
Molybdenum		20.00	21.33	107	80-120	0	20
Nickel		25.00	24.62	98	80-120	0	20
Selenium		50.00	48.19	96	80-120	0	20 20
Silver		10.00	10.28	103	80-120	2	20
		50.00	47.65	95	80-120	0	20
Thallium		25.00	26.50	106	80-120	2	20
Vanadium			23.05	92	80-120	۲ ۲	20
Zinc		25.00	23.03	14	00 120		20



	California Title 22 Metals				
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B			
Field ID: MSS Lab ID: Matrix: Units: Basis:	ZZZZZZZZZ 211344-006 Soil mg/Kg as received	Batch#: 149860 Sampled: 04/10/09 Received: 04/10/09 Prepared: 04/10/09			

Type:	MS		Lab ID:	QC4	191386		
Analyte	MSS Result	Spiked	Result	%REC		Diln Fac	Analyzed
Antimony	<0.1101	93.46	15.51	17		1.000	04/11/09
Arsenic	8.377	46.73	40.41	69		1.000	04/11/09
Barium	1,770	93.46	1,604	-178 NM		10.00	04/13/09
Beryllium	0.2793	2.336	2.062	76	75-120	1.000	04/11/09
Cadmium	0.6345	9.346	6.896	67	63-120	1.000	04/11/09
Chromium	307.8	93.46	240.4	-72 *	52-128	1.000	04/11/09
Cobalt	11,42	23.36	24.25	55	50-120	1.000	04/11/09
Copper	31.39	11.68	35.91	39	38-149	1.000	04/11/09
Lead	1,908	93.46	684.3	-1310 NM	49-124	10.00	04/13/09
Molybdenum	20.23	18.69	13.99	-33 *	62-120	1.000	04/11/09
Nickel	31.82	23.36	38.64	29 *	34-148	1.000	04/11/09
Selenium	<0.8387	46.73	40.11	86	63-120	10.00	04/13/09
Silver	<0.03099	9.346	6.705	72	66-120	1.000	04/11/09
Thallium	<0.09962	46.73	29.47	63	57-120	1.000	04/11/09
Vanadium	31.45	23.36	47.38	68	41-146	1.000	04/11/09
Zinc	2,091	23.36	1,894	-841 NM	25-159	10.00	04/13/09

Type:	MSD		Lab ID:	Q	C4913	887		
Analyte	Spiked	Result	%REC	Limits 1	RPD	Lim	Diln Fac	Analyzed
Antimony	90.91	21.90	24	0 440	37 *	31	1.000	04/11/09
Arsenic	45.45	46.38	84	65-120	16	24	1.000	04/11/09
Barium	90.91	1,471	-328 NM	40-141	8	31	10.00	04/13/09
Beryllium	2.273	2.388	93	75-120	17	21	1.000	04/11/09
Cadmium	9.091	8.105	82	63-120	19	20	1.000	04/11/09
Chromium	90.91	254.6	-59 *	52-128	6	25	1.000	04/11/09
Cobalt	22.73	28.72	76	50-120	19	26	1.000	04/11/09
Copper	11.36	38.83	66	38-149	9	28	1.000	04/11/09
Lead	90.91	663.0	-1370 NM	49-124	3	31	10.00	04/13/09
Molybdenum	18.18	16.89	-18 *	62-120	20	20	1.000	04/11/09
Nickel	22.73	47.15	67	34-148	21	30	1.000	04/11/09
Selenium	45.45	37.99	84	63-120	3	20	10.00	04/13/09
Silver	9.091	7.888	87	66-120	19	20	1.000	04/11/09
Thallium	45.45	33.73	74	57-120	16	20	1.000	04/11/09
Vanadium	22.73	53.82	98	41-146	14	24	1.000	04/11/09
Zinc	22.73	1,891	-878 NM	25-159	0	33	10.00	04/13/09

*= Value outside of QC limits; see narrative NM= Not Meaningful: Sample concentration > 4X spike concentration RPD= Relative Percent Difference Page 1 of 1



10.00

1.000

9.4

1.0

04/13/09

04/11/09

		Zinc			
Lab #:	211344	Location:	4700 Coliseum Wa	ay Site,	Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B		
Project#:	1148.001.03	Analysis:	EPA 6010B		
Analyte:	Zinc	Batch#:	149860		
Matrix:	Soil	Sampled:	04/10/09		
Units:	mg/Kg	Received:	04/10/09		
Basis:	as received	Prepared:	04/10/09		
Field ID	Type Lab ID	Result	RL	Diln Fa	ac Analyzed
B-41-0	SAMPLE 211344-006	2,100	8.9	10.00	04/13/09
B-42-0	SAMPLE 211344-007	410	1.0	1.000	04/11/09

600

ND

SAMPLE 211344-008

BLANK QC491383

ND= Not Detected RL= Reporting Limit Page 1 of 1

B-43-0



				Zinc				
Lab #	:	211344		Loc	ation: 4	700 Coliseum	. Way Site, Oal	kland
Clien	t:	PES Environm	mental, Inc.	Pre	р: Е	PA 3050B		
Proje	ct#:	1148.001.03		Ana	lysis: E	PA 6010B		
Analy	te:	Zinc		Bas	is:	as rec	eived	
Field	ID:	ZZZZZZZZZZ		Bat	ch#:	149860		
MSS I	ab ID:	211344-006		Sam	pled:	04/10/	09	
Matri	x:	Soil		Rec	eived:	04/10/	09	
Units	:	mg/Kg		Pre	pared:	04/10/	09	
Туре	Lab ID	MSS Result	Spiked	Result	*REC	Limits RPD	Lim Diln Fac	Analyzed
BS	OC491384		25.00	22.44	90	80-120	1.000	04/11/09
BSD	OC491385		25.00	23.05	92	80-120 3	20 1.000	04/11/09
MS	QC491386	2,091	23.36	1,894	-841 NM	25-159	10.00	04/13/09
MSD	QC491387	,	22.73	1,891	-878 NM	25-159 0	33 10.00	04/13/09



Lab #:	211344	Location: 470	O Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: MET	'HOD
Project#:	1148.001.03	Analysis: EPA	7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC491505	Batch#:	149892
Matrix:	Soil	Prepared:	04/13/09
Units:	mg/Kg	Analyzed:	04/13/09

ND= Not Detected RL= Reporting Limit Page 1 of 1



Lab #:	211344	Location: 4700 Col	iseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: METHOD	
Project#:	1148.001.03	Analysis: EPA 7471	A
Analyte:	Mercury	Diln Fac: 1	.000
Matrix:	Soil	Batch#: 1	49892
Units:	mg/Kg	Prepared: 0	4/13/09
Basis:	as received	Analyzed: 0	4/13/09

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC491506	0.5000	0.5190	104	80-120		
BSD	QC491507	0.5000	0.5110	102	80-120	2	20



Lab #:	211344	Location: 470	0 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: MET	THOD
Project#:	1148.001.03	Analysis: EPA	A 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZ	Batch#:	149892
MSS Lab ID:	211123-001	Sampled:	04/02/09
Matrix:	Soil	Received:	04/02/09
Units:	mg/Kg	Prepared:	04/13/09
Basis:	as received	Analyzed:	04/13/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC491508	0.09647	0.5208	0.6563	107	64-138		
MSD	QC491509		0.4717	0.5811	103	64-138	4	27



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PES Environmental, Inc.Project : 1148.001682 Novato BoulevardLocation : 4700 CoNovato, CA 94947Level : II	01.03.002 oliseum Way Site, Oakland
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Sample ID	Lab ID
B-44-1.0	212143-001
B-45-1.0	212143-002
B-46-1.0	212143-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Manager

Signature:

Senior Program Manager

Date: 05/18/2009

Date: <u>05/21/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 212143 PES Environmental, Inc. 1148.001.03.002 4700 Coliseum Way Site, Oakland 05/14/09 05/14/09

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 05/14/09. The samples were received intact.

Metals (EPA 6010B):

High RPD was observed for lead in the MS/MSD for batch 151033; the parent sample was not a project sample, and the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

		Tempekins	i i	the Mest	(415) 899-1600 FAX (415 ANALYSIS REQUESTED	
					H1dad EFA EPA 5035/8010 EPA EPA 5035/8021 EPA EPA 5035/8021 EPA FPA 5035/8015M TPHg by 5035/8015M TPHd by 8015M TPHmo by 8015M TPHmo by 8015M TPHmo by 8015M TPHMO TPHMO TPHMO FPA FPA <th></th>	
JECT MANAGE	R: Kyle	Flory	RECORDER:	ke Mast	015M	
DAT			MATRIX	# of Containers & Preservatives	10000000000000000000000000000000000000	
R MO	DY TIME	SAMPLE NUMBER / DESIGNATION	Vapor Water Soil Sedim't	Unpres. EnCore H2SO4 H1NO ₃ HCI	Had Had Had EPA 5035/8010 EPA 5035/8010 EPA 5035/8021 EPA 5035/8021 EPA 5035/8015M TPHub by 8015M TPHmo by 8015M EPA 8270C MNA Parameters (see Lead (Methul Zin c (Methul	
9 051	41140	B-44-1.0	X		XX	
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Turn Around Time: 24-Hour 7AT	RELINQUISHED BY: (Signature)	RECEIVED BY: (Schanne)	Y 14	TIME
Please email result to	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
Kflory @ pesenv.com	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
g thomas & pesenvicom	DISPATCHED BY: (Signature) DATE	E TIME RECEIVED FOR LAB BY: (Signature)	DATE	TIME
	METHOD OF SHIPMENT: Dropped off	at lab		
ω _{Pageof}	WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field on			

COOLER RECEIPT CHECKLIST

COOLER RECEIPT CHECKLIST	Curtis & Tompkins, Ltd.
Login # 212143 Date Received $\leq \cdot 14-6$ Client $pess$ Project 476	Number of coolers /
Date Opened <u>5-14-9</u> By (print) <u>5-Entrs</u> (Date Logged in <u>F</u> By (print) <u>F</u> (sign)
1. Did cooler come with a shipping slip (airbill, etc) Shipping info	YES NO
 2A. Were custody seals present? □ YES (circle) on content of the many	Date YES NO YES NO YES NO Out top of form) YES NO
Bubble Wrap Gram blocks Bags Cloth material Cardboard Styrof 7. Temperature documentation:	☐ None Toam ☐ Paper towels
Type of ice used: 🗌 Wet 🗌 Blue/Gel 🗡 Non	e Temp(°C)
□ Samples Received on ice & cold without a temper	ature blank
\Box Samples received on ice directly from the field. Co	•••
 8. Were Method 5035 sampling containers present?	rests?YES_NO rests?YES_NO rests?YES_NO rests?YES_NO rests? NO rests? NO
COMMENTS	
	•
SOD Valuate Client Services	

SOP Volume: Client Services Section: 1.1.2 1 of 1 Page:

Rev. 6 Number 1 of 3 Effective: 23 July 2008 Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc

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		Lead	
Lab #:	212143	Location: 4700 Coliseum Way Site, Oakla	and
Client:	PES Environmental, Inc.	Prep: EPA 3050B	
Project#:	1148.001.03.002	Analysis: EPA 6010B	
Analyte:	Lead	Sampled: 05/14/09	
Matrix:	Soil	Received: 05/14/09	
Units:	mg/Kg	Prepared: 05/14/09	
Basis:	as received	Analyzed: 05/15/09	
Batch#:	151033	_	

Field ID	Type Lab ID	Result	RL	Diln Fac
B-44-1.0	SAMPLE 212143-001	800	14	100.0
B-45-1.0	SAMPLE 212143-002	2,800	15	100.0
B-46-1.0	SAMPLE 212143-003	730	14	100.0
	BLANK QC496094	ND	0.25	1.000

ND= Not Detected RL= Reporting Limit Page 1 of 1



Matrix: Units:	Soil mg/Kg	Received: Prepared:	05/12/09 05/14/09		
Field ID: MSS Lab ID:	ZZZZZZZZZ 212083-001	Batch#: Sampled:	151033 05/11/09		
Project#: Analyte:	Lead	Analysis: EI Diln Fac:	1.000		
Client:	PES Environmental, Inc. 1148.001.03.002	1	PA 3050B		
Lab #:	212143		700 Coliseum Way S	ite, Oakland	

Type	Lab ID	MSS Result	Spiked	Result	*REC	Limits	RPD	Liw
BS	QC496095		25.00	22.78	91	80-120		
BSD	QC496096		25.00	22.55	90	80-120	1	20
MS	QC496097	159.2	23.15	213.8	236 NM	49-124		
MSD	QC496098		24.04	140.7	-77 NM	49-124	42 *	31

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference
Page 1 of 1



		Zinc		
Lab #:	212143	Location: 470	0 Coliseum Way Site, O	akland
Client:	PES Environmental, Inc.	Prep: EPA	3050B	
Project#:	1148.001.03.002	Analysis: EPA	6010B	
Analyte:	Zinc	Sampled:	05/14/09	
Matrix:	Soil	Received:	05/14/09	
Units:	mg/Kg	Prepared:	05/14/09	
Basis:	as received	Analyzed:	05/15/09	
Batch#:	151033			

Field ID	Type Lab ID	Result	RL	Diln Fac
B-44-1.0	SAMPLE 212143-001	1,100	95	100.0
B-45-1.0	SAMPLE 212143-002	1,700	99	100.0
B-46-1.0	SAMPLE 212143-003	1,100	92	100.0
	BLANK QC496094	ND	1.0	1.000

ND= Not Detected RL= Reporting Limit Page 1 of 1



Batch QC Report

T - 1- II -	010140	Tasahiant	4700 Colicoum Way Site Oakland
Lab #:	212143		4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.		EPA 3050B
Project#:	1148.001.03.002	Analysis: H	EPA 6010B
Analyte:	Zinc	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	151033
MSS Lab ID:	212083-001	Sampled:	05/11/09
Matrix:	Soil	Received:	05/12/09
Units:	mg/Kg	Prepared:	05/14/09
Basis:	as received	Analyzed:	05/15/09

Type	Lab ID	MSS Result	Spiked	Result	*REC	Limits	RPD	Lim
BS	QC496095		25.00	23.05	92	80-120		
BSD	QC496096		25.00	23.05	92	80-120	0	20
MS	QC496097	197.0	23.15	250.7	232 NM	25-159		
MSD	QC496098		24.04	244.2	196 NM	25-159	3	33



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PES Environmental, Inc.Project : 1148.001.031682 Novato BoulevardLocation : 4700 Coliseum Way Site, OaklarNovato, CA 94947Level : II	nd
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Sample ID	Lab ID
B-47-1.0	212244-001
B-48-1.0	212244-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: roject Manager Signature:

Senior Program Manager

Date: 05/26/2009

Date: <u>05/27/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 212244 PES Environmental, Inc. 1148.001.03 4700 Coliseum Way Site, Oakland 05/19/09 05/19/09

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 05/19/09. The samples were received intact.

Metals (EPA 6010B):

High recovery was observed for lead in the MSD for batch 151136; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

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NOTES		CHA	IN OF C	USTODY RECORD		
Turn Around Time: 29-hour	RELINQUISHED BY: (Sgnature)		1-	D BY: (Signature)	DATE \$19/08	TIME 4:05
pesenvicin upon vicient	RELINQUISHED BY: (Signature)			D BY: (Signature)	DATE	TIME
	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
- 	METHOD OF SHIPMENT:					
ор	-Laboratory COPY YELLOW-Project Office Copy PINK	Field or Of	lice Copy			

COOLER RECEIPT CHECKLIST
Login # 712299 Date Received 5-19-9 Number of coolers & Client PES Project 470 Californ WAY
Date Opened <u>S-19-9</u> By (print) <u>S EVANS</u> (sign) <u>Tanler</u> Date Logged in <u>By (print)</u> (sign) <u>J</u>
1. Did cooler come with a shipping slip (airbill, etc)YES
2A. Were custody seals present? □ YES (circle) on cooler on samples NO How manyNameDate DateYES NO 2B. Were custody seals intact upon arrival?YES NO YES NO
2B. Were custody seals intact upon arrival? YES NO 3. Were custody papers dry and intact when received? YES NO 4. Were custody papers filled out properly (ink, signed, etc)? YES NO 5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO 6. Indicate the packing in cooler: (if other, describe) If so fill out top of form) YES
Bubble Wrap Foam blocks Bags None Cloth material Cardboard Styrofoam Paper towels 7. Temperature documentation: Cardboard Styrofoam Paper towels
Type of ice used: Wet Blue/Gel Temp(°C)
□ Samples Received on ice & cold without a temperature blank
Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present?YES The second seco
9. Did all bottles arrive unbroken/unopened?
10. Are samples in the appropriate containers for indicated tests? NO 11. Are sample labels present, in good condition and complete? NO
12. Do the sample labels agree with custody papers?
13. Was sufficient amount of sample sent for tests requested? NO
14. Are the samples appropriately preserved?YES NO(NA)
15. Are bubbles > 6mm absent in VOA samples? YES NO NZS
16. Was the client contacted concerning this sample delivery? YES NO If YES, Who was called? By Date:
COMMENTS

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		Lead		
Lab #:	212244	Location: 470	0 Coliseum Way Si	te, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	A 3050B	
Project#:	1148.001.03	Analysis: EPA	A 6010B	
Analyte:	Lead	Sampled:	05/19/09	
Matrix:	Soil	Received:	05/19/09	
Units:	mg/Kg	Prepared:	05/18/09	
Basis:	as received	Analyzed:	05/19/09	
Batch#:	151136			
Field II) Type Lab ID	Result	RL	Diln Fac

Field ID	Type Lab ID	Result	RL	Diln Fac
B-47-1.0	SAMPLE 212244-001	410	0.25	1.000
B-48-1.0	SAMPLE 212244-002	1,300	1.7	10.00
	BLANK QC496516	ND	0.25	1.000

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ND= Not Detected RL= Reporting Limit Page 1 of 1



Batch QC Report

~ 1 //	010044		A California New City Cokland
Lab #:	212244		O Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	. 3050B
Project#:	1148.001.03	Analysis: EPA	6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	151136
MSS Lab ID:	212226-005	Sampled:	05/18/09
Matrix:	Soil	Received:	05/18/09
Units:	mg/Kg	Prepared:	05/18/09
Basis:	as received	Analyzed:	05/19/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC496517		25.00	25.51	102	80-120		
BSD	QC496518		25.00	26.09	104	80-120	2	20
MS	QC496519	68.50	22.52	81.89	59	49-124		
MSD	QC496520		22.32	106.7	171 *	49-124	27	31

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Page 1 of 1



		Zinc	
Lab #:	212244	Location: 4700 Coliseum Way Site	, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3050B	
Project#:	1148.001.03	Analysis: EPA 6010B	
Analyte:	Zinc	Sampled: 05/19/09	
Matrix:	Soil	Received: 05/19/09	
Units:	mg/Kg	Prepared: 05/18/09	
Basis:	as received	Analyzed: 05/19/09	
Batch#:	151136		
Field I	D Type Lab ID	Result RL	Diln Fac

Field ID	Type Lab ID	Result	RL	Diln Fac
B-47-1.0	SAMPLE 212244-001	710	8.5	10.00
B-48-1.0	SAMPLE 212244-002	1,100	10	10.00
	BLANK QC496516	ND	1.0	1.000

ND= Not Detected RL= Reporting Limit Page 1 of 1

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Batch QC Report

		Zinc
Lab #:	212244	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1148.001.03	Analysis: EPA 6010B
Analyte:	Zinc	Diln Fac: 1.000
Field ID:	ZZZZZZZZZ	Batch#: 151136
MSS Lab ID:	212226-005	Sampled: 05/18/09
Matrix:	Soil	Received: 05/18/09
Units:	mg/Kg	Prepared: 05/18/09
Basis:	as received	Analyzed: 05/19/09
Type Lab ID	MSS Result	Spiked Result %REC Limits RPD Lin

Type	Lab ID	MSS Result	Spiked	Result	*REC	LIMITS	RPD	LIW
BS	QC496517		25.00	25.77	103	80-120		
BSD	QC496518		25.00	26.50	106	80-120	3	20
MS	QC496519	238.6	22.52	341.1	455 NM	25-159		
MSD	QC496520		22.32	264.4	116 NM	25-159	25	33



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PES Environmental, Inc.	Project : 1148.001.03
1682 Novato Boulevard	Location : 4700 Coliseum Way Site, Oakland
Novato, CA 94947	Level : II

Sample ID	<u>Lab ID</u>
B-49-1	212273-001
B-50-1	212273-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Manager

Signature:

Senior Program Manager

Date: 05/27/2009

Date: <u>05/28/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 212273 PES Environmental, Inc. 1148.001.03 4700 Coliseum Way Site, Oakland 05/20/09 05/20/09

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 05/20/09. The samples were received intact.

Metals (EPA 6010B):

No analytical problems were encountered.

PES Environmental, Inc.	
Engineering & Environmental Services	

CHAIN OF CUSTODY RECORD

Z [ZZ 73 1682 NOVATO BOULEVARD, SUITE 100 NOVATO, CALIFORNIA 94947 (415) 899-1600 EAX (415) 899-1601

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COOLER RECEIPT CHECKLIST		Curtis & T	ompkins, Ltd.
Login # 212273 Date Re Client PES	ceived Stzolog Project 4700	Number of coolers	Nove
Date Opened $\frac{6/20}{9}$ By (print) Mo Date Logged in By (print)			2. C.
1. Did cooler come with a shipping slip (a Shipping info	airbill, etc)	YES	Constant and the second
 2A. Were custody seals present? □ YE How many Na 2B. Were custody seals intact upon arriva 3. Were custody papers dry and intact wh 4. Were custody papers filled out properly 5. Is the project identifiable from custody 6. Indicate the packing in cooler: (if other 	me l? en received? / (ink, signed, etc)? y papers? (If so fill out top	DateYES YES YES of form)YES	NO TKA NO NO NO
Bubble Wrap Foam bloc Cloth material Cardboard 7. Temperature documentation:	eks ⊒Ba gs I ☐ Styrofoam	NonePaper to	vels
Type of ice used: 🔲 Wet 🛛	Blue/Gel None	Temp(°C)	
☐ Samples Received on ice & col			
☐ Samples received on ice direct	•		
8. Were Method 5035 sampling container If YES, what time were they trans	rs present?		TES XO
 9. Did all bottles arrive unbroken/unopene 10. Are samples in the appropriate contai 11. Are sample labels present, in good contai 	ners for indicated tests?		AS NO AS NO AS NO M
 12. Do the sample labels agree with custo 13. Was sufficient amount of sample sent 14. Are the samples appropriately preserv 	for tests requested? ed?	YES	NO NO
 15. Are bubbles > 6mm absent in VOA sa 16. Was the client contacted concerning the If YES, Who was called? 	nis sample delivery?		NO MA YES NO
COMMENTS, 30MAPLIE # 1 TIME ON 30	6-4PUS 1320		
MARKENT TIME OF G	ancifue 1325		
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SOP Volume:Client ServicesSection:1.1.2Page:1 of 1	Z:\qc\forms\checklist	Effective	Number 1 of 3 : 23 July 2008 cklist_rv6.doc

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4 of 8



		Lead	
Lab #:	212273	Location: 470	00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	A 3050B
Project#:	1148.001.03	Analysis: EPA	A 6010B
Analyte:	Lead	Batch#:	151235
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Prepared:	05/20/09
Field ID	Type Lab ID	Result	RL Diln Fac Analyzed
B-19-1	SAMPLE 212273-001	1.600	1.5 10.00 05/21/09

Field ID	Туре	Lab ID	Result	RL	Diln Fac	Analyzed
B-49-1	SAMPLE	212273-001	1,600	1.5	10.00	05/21/09
B-50-1	SAMPLE	212273-002	900	1.6	10.00	05/21/09
	BLANK	QC496944	ND	0.25	1.000	05/20/09

ND= Not Detected RL= Reporting Limit Page 1 of 1

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Batch QC Report

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		Lead	
Lab #:	212273	Location: 4700 Coliseum Way Site, Oakland	
Client:	PES Environmental, Inc.	Prep: EPA 3050B	
Project#:	1148.001.03	Analysis: EPA 6010B	
Analyte:	Lead	Diln Fac: 1.000	
Field ID:	UST-SP-COMP	Batch#: 151235	
MSS Lab ID:	212269-001	Sampled: 05/20/09	
Matrix:	Soil	Received: 05/20/09	
Units:	mg/Kg	Prepared: 05/20/09	
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits RPD	Lim	Analyzed
BS	QC496945		25.00	22.09	88	80-120		05/20/09
BSD	OC496946		25.00	22.27	89	80-120 1	20	05/20/09
MS	- 0C496947	262.0	22.73	490.3 >LR	1004 NM	49-124		05/20/09
MSD	QC496948		22.52	296.8	154 NM	49-124 NC	31	05/21/09

NC= Not Calculated NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1



		Zinc
Lab #:	212273	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1148.001.03	Analysis: EPA 6010B
Analyte:	Zinc	Batch#: 151235
Matrix:	Soil	Sampled: 05/20/09
Units:	mg/Kg	Received: 05/20/09
Basis:	as received	Prepared: 05/20/09
Field ID	Type Lab ID	Result RL Diln Fac Analyzed
D 10 1	GIMPIE 010072 001	1 400 9.0 10.00 05/21/09

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
B-49-1	SAMPLE 2	212273-001	1,400	9.0	10.00	05/21/09
B-50-1	SAMPLE 2	212273-002	870	9.6	10.00	05/21/09
	BLANK (QC496944	ND	1.0	1.000	05/20/09

ND= Not Detected RL= Reporting Limit Page 1 of 1



Batch QC Report

Zinc							
Lab #:	212273	Location: 4700 Coliseum Way Site, Oakland					
Client:	PES Environmental, Inc.	Prep: EPA 3050B					
Project#:	1148.001.03	Analysis: EPA 6010B					
Analyte:	Zinc	Diln Fac: 1.000					
Field ID:	UST-SP-COMP	Batch#: 151235					
MSS Lab ID:	212269-001	Sampled: 05/20/09					
Matrix:	Soil	Received: 05/20/09					
Units:	mg/Kg	Prepared: 05/20/09					
Basis:	as received						

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
BS	OC496945		25.00	23.41	94	80-120			05/20/09
BSD	OC496946		25.00	23.43	94	80-120	0	20	05/20/09
MS	- OC496947	382.2	22.73	374.5	-34 NM	25-159			05/20/09
MSD	QC496948		22.52	510.4 >LR	569 NM	25-159	NC	33	05/21/09

NC= Not Calculated NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1

RESULTS FOR VERIFICATION SOIL SAMPLES



April 09, 2009

Kyle Flory PES Environmental, Inc 1682 Novato Blvd. STE#100 Novato, CA 94947

TEL: (415) 899-1600 FAX: (415) 899-1601

RE: 1148.001.03

Dear Kyle Flory:

Order No.: 0904048

Torrent Laboratory, Inc. received 8 samples on 4/8/2009 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

Patti Sandrock QA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Kyle Flory

PES Environmental, Inc

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Client Sample ID:SW-N-3.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 2:00:00 PM

Lab Sample ID: 0904048-001 Date Prepared: 4/9/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/9/2009	1.965	1000	1770	6700 J	µg/Kg	R19182
1,1,2,2-Tetrachloroethane	SW8260B	4/9/2009	1.878	1000	1690	ND	µg/Kg	R19182
1,1,2-Trichloroethane	SW8260B	4/9/2009	1.709	1000	1540	ND	µg/Kg	R19182
1,1-Dichloroethane	SW8260B	4/9/2009	1,669	1000	1500	ND	µg/Kg	R19182
1,1-Dichloroethene	SW8260B	4/9/2009	5	1000	4500	ND	µg/Kg	R19182
1,1-Dichloropropene	SW8260B	4/9/2009	5	1000	4500	ND	µg/Kg	R19182
1,2-Dichlorobenzene	SW8260B	4/9/2009	1.926	1000	1730	ND	µg/Kg	R19182
1,2-Dichloroethane (EDC)	SW8260B	4/9/2009	1.702	1000	1530	ND	µg/Kg	R19182
1,2-Dichloropropane	SW8260B	4/9/2009	1.897	1000	1710	ND	µg/Kg	R19182
1,3-Dichlorobenzene	SW8260B	4/9/2009	1.568	1000	1410	ND	µg/Kg	R19182
1,4-Dichlorobenzene	SW8260B	4/9/2009	2.142	1000	1930	ND	µg/Kg	R19182
2-Chloroethyl vinyl ether	SW8260B	4/9/2009	3	1000	2700	ND	µg/Kg	R19182
Bromodichloromethane	SW8260B	4/9/2009	1.365	1000	1230	ND	µg/Kg	R19182
Bromoform	SW8260B	4/9/2009	1.814	1000	1630	ND	µg/Kg	R19182
Bromomethane	SW8260B	4/9/2009	1	1000	900	ND	µg/Kg	R19182
Carbon tetrachloride	SW8260B	4/9/2009	2.249	1000	2020	ND	µg/Kg	R19182
Chlorobenzene	SW8260B	4/9/2009	1.376	1000	1240	ND	µg/Kg	R19182
Chloroethane	SW8260B	4/9/2009	5	1000	4500	ND	µg/Kg	R19182
Chloroform	SW8260B	4/9/2009	1.824	1000	1640	ND	µg/Kg	R19182
Chloromethane	SW8260B	4/9/2009	1.584	1000	1430	ND	µg/Kg	R19182
cis-1,2-Dichloroethene	SW8260B	4/9/2009	1.814	1000	1630	ND	µg/Kg	R19182
cis-1,3-Dichloropropene	SW8260B	4/9/2009	1	1000	900	ND	µg/Kg	R19182
Dibromochloromethane	SW8260B	4/9/2009	1.198	1000	1080	ND	µg/Kg	R19182
Dichlorodifluoromethane	SW8260B	4/9/2009	10	1000	9000	ND	µg/Kg	R19182
Freon-113	SW8260B	4/9/2009	1.616	1000	1450	ND	µg/Kg	R19182
Methylene chloride	SW8260B	4/9/2009	1.434	1000	1290	ND	µg/Kg	R19182
Tetrachloroethene	SW8260B	4/9/2009	1.513	1000	1360	ND	µg/Kg	R19182
trans-1,2-Dichloroethene	SW8260B	4/9/2009	1.751	1000	1580	ND	µg/Kg	R19182
rans-1,3-Dichloropropene	SW8260B	4/9/2009	1.462	1000	1320	ND	µg/Kg	R19182
Trichloroethene	SW8260B	4/9/2009	1.44	1000	1300	ND	µg/Kg	R19182
Trichlorofluoromethane	SW8260B	4/9/2009	1.741	1000	1570	ND	µg/Kg	R19182
Vinyl chloride	SW8260B	4/9/2009	1.757	1000	1580	ND	µg/Kg	R19182
Surr: 4-Bromofluorobenzene	SW8260B	4/9/2009	1.589	1000	55.8-141	85.8	%REC	R19182
Surr: Dibromofluoromethane	SW8260B	4/9/2009	1.312	1000	59.8-148	88.3	%REC	R19182
Surr: Toluene-d8	SW8260B	4/9/2009	1.633	1000	55.2-133	80.4	%REC	R19182

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Page 1 of 10

Report prepared for: Kyle Flory PES Environmental, Inc

Date Received:	4/8/2009
Date Reported:	4/9/2009

Lab Sample ID:	0904048-001
Date Prepared:	4/9/2009

Client Sample ID:	SW-N-3.0
Sample Location:	4600-4700 Coliseum Wy,Oaklan
Sample Matrix:	SOIL
Date/Time Sample	d 4/8/2009 2:00:00 PM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
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Note: Results reported to the MDL. Due to the significant amount of the heavy end compounds supressing the internal standard signal used for qauntitation, sample was analyzed with appropriate dilution. Results between the MDL and RL should be considered as estimated and are flagged with the appropriate "J" qualifier.

PES Environmental, Inc

Client Sample ID:SW-S-3.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 2:30:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-002 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	1.965	500	825	5450	µg/Kg	R19182
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	1.878	500	789	ND	µg/Kg	R19182
1,1,2-Trichloroethane	SW8260B	4/8/2009	1.709	500	718	ND	µg/Kg	R19182
1,1-Dichloroethane	SW8260B	4/8/2009	1.669	500	701	ND	µg/Kg	R19182
1,1-Dichloroethene	SW8260B	4/8/2009	5	500	2100	ND	µg/Kg	R19182
I,1-Dichloropropene	SW8260B	4/8/2009	5	500	2100	ND	µg/Kg	R19182
1,2-Dichlorobenzene	SW8260B	4/8/2009	1.926	500	809	ND	µg/Kg	R19182
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	1.702	500	715	ND	µg/Kg	R19182
1,2-Dichloropropane	SW8260B	4/8/2009	1.897	500	797	ND	µg/Kg	R19182
1,3-Dichlorobenzene	SW8260B	4/8/2009	1.568	500	659	ND	µg/Kg	R19182
1,4-Dichlorobenzene	SW8260B	4/8/2009	2.142	500	900	ND	µg/Kg	R19182
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	3	500	1260	ND	µg/Kg	R19182
Bromodichloromethane	SW8260B	4/8/2009	1.365	500	573	ND	µg/Kg	R19182
Bromoform	SW8260B	4/8/2009	1.814	500	762	ND	µg/Kg	R19182
Bromomethane	SW8260B	4/8/2009	1	500	420	ND	µg/Kg	R19182
Carbon tetrachloride	SW8260B	4/8/2009	2.249	500	945	ND	µg/Kg	R19182
Chlorobenzene	SW8260B	4/8/2009	1.376	500	578	ND	µg/Kg	R19182
Chloroethane	SW8260B	4/8/2009	5	500	2100	ND	µg/Kg	R19182
Chloroform	SW8260B	4/8/2009	1,824	500	766	ND	µg/Kg	R19182
Chloromethane	SW8260B	4/8/2009	1.584	500	665	ND	µg/Kg	R19182
cis-1,2-Dichloroethene	SW8260B	4/8/2009	1.814	500	762	ND	µg/Kg	R19182
cis-1,3-Dichloropropene	SW8260B	4/8/2009	1	500	420	NÐ	µg/Kg	R19182
Dibromochloromethane	SW8260B	4/8/2009	1.198	500	503	ND	µg/Kg	R19182
Dichlorodifluoromethane	SW8260B	4/8/2009	10	500	4200	ND	µg/Kg	R19182
Freon-113	SW8260B	4/8/2009	1.616	500	679	ND	µg/Kg	R19182
Methylene chloride	SW8260B	4/8/2009	1.434	500	602	ND	µg/Kg	R19182
Fetrachloroethene	SW8260B	4/8/2009	1.513	500	635	ND	µg/Kg	R19182
rans-1,2-Dichloroethene	SW8260B	4/8/2009	1.751	500	735	ND	µg/Kg	R19182
rans-1,3-Dichloropropene	SW8260B	4/8/2009	1.462	500	614	ND	µg/Kg	R19182
Frichloroethene	SW8260B	4/8/2009	1.44	500	605	ND	µg/Kg	R19182
Frichlorofluoromethane	SW8260B	4/8/2009	1.741	500	731	ND	µg/Kg	R19182
/inyl chloride	SW8260B	4/8/2009	1.757	500	738	ND	µg/Kg	R19182
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	1.589	500	55.8-141	103	%REC	R19182
Surr: Dibromofluoromethane	SW8260B	4/8/2009	1.312	500	59.8-148	82.2	%REC	R19182
Surr: Toluene-d8	SW8260B	4/8/2009	1.633	500	55.2-133	78.9	%REC	R19182

Note: Results reported to the MDL. Due to the significant amount of the heavy end compounds supressing the internal standard signal used for qauntitation, sample was analyzed with appropriate dilution.

PES Environmental, Inc

Client Sample ID:SW-E-3.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 2:40:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-003 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	10	1	8.30	23.2	µg/Kg	R19181
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
I,1-Dichloroethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,1-Dichloroethene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,1-Dichloropropene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,2-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	10	1	8,30	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Bromoform	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Chloroform	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Freon-113	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/8/2009	50	1	41.5	ND	µg/Kg	R19181
Tetrachloroethene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
trans-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
rans-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Trichloroethene	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Trichlorofluoromethane	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
√inyl chloride	SW8260B	4/8/2009	10	1	8.30	ND	µg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	0	1	55.8-141	77.7	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/8/2009	0	1	59.8-148	77.1	%REC	R19181
Surr: Toluene-d8	SW8260B	4/8/2009	0	1	55.2-133	79.4	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers.

PES Environmental, Inc

Client Sample ID:SW-W-3.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 2:50:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-004 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	10	1	9.70	117	µg/Kg	R19181
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,1-Dichloroethane	SW8260B	4/8/2009	10	1	9.70	78.5	µg/Kg	R19181
1,1-Dichloroethene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,1-Dichloropropene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,2-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	10	1	9,70	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Bromoform	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/8/2009	10	1	9,70	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Chloroform	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Freon-113	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/8/2009	50	1	48.5	ND	µg/Kg	R19181
Tetrachloroethene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
trans-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
trans-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Trichloroethene	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Trichlorofluoromethane	SW8260B	4/8/2009	10	1	9.70	ND	µg/Kg	R19181
Vinyl chloride	SW8260B	4/8/2009	10	1	9.70	ND	μg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	0	1	55.8-141	101	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/8/2009	0	1	59.8-148	97.0	%REC	R19181
Surr: Toluene-d8	SW8260B	4/8/2009	0	1	55.2-133	99.2	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers.

Report prepared for: Kyle Flory PES Environmental, Inc

Client Sample ID: BS-N-5.0 4600-4700 Coliseum Wy,Oaklan Sample Location: Sample Matrix: SOIL 4/8/2009 3:00:00 PM **Date/Time Sampled**

Date Received: 4/8/2009 Date Reported: 4/9/2009

Lab Sample ID: 0904048-005 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	10	1	9.80	32.4	µg/Kg	R19181
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,1-Dichloroethane	SW8260B	4/8/2009	10	1	9.80	24.4	µg/Kg	R19181
1,1-Dichloroethene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,1-Dichloropropene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,2-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	10	1	9,80	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Bromoform	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Chloroform	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Freon-113	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/8/2009	50	1	49.0	ND	µg/Kg	R19181
Tetrachloroethene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
trans-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
trans-1,3-Dichloropropene	SW8260B	4/8/2009	10	21	9.80	ND	µg/Kg	R19181
Trichloroethene	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Trichlorofluoromethane	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Vinyl chloride	SW8260B	4/8/2009	10	1	9.80	ND	µg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	0	1	55.8-141	119	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/8/2009	0	1	59.8-148	113	%REC	R19181
Surr: Toluene-d8	SW8260B	4/8/2009	0	1	55.2-133	106	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers.

PES Environmental, Inc

Client Sample ID:BS-N-6.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 3:10:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-006 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	10	1	8.40	143	µg/Kg	R19181
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,1-Dichloroethane	SW8260B	4/8/2009	10	1	8.40	105	µg/Kg	R19181
1,1-Dichloroethene	SW8260B	4/8/2009	10	1	8.40	20.3	µg/Kg	R19181
1,1-Dichloropropene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,2-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/8/2009	10	1	8,40	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Bromoform	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Chloroform	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Freon-113	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/8/2009	50	1	42.0	ND	µg/Kg	R19181
Fetrachloroethene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
rans-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
rans-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Frichloroethene	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Frichlorofluoromethane	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
/inyl chloride	SW8260B	4/8/2009	10	1	8.40	ND	µg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	0	1	55.8-141	92.0	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/8/2009	0	1	59.8-148	83.4	%REC	R19181
Surr: Toluene-d8	SW8260B	4/8/2009	0	1	55.2-133	81.1	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers,

PES Environmental, Inc

Client Sample ID:BS-S-5-0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 3:20:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-007 Date Prepared: 4/8/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/8/2009	10	1	8.80	20.8	µg/Kg	R19181
1,1,2,2-Tetrachloroethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,1-Dichloroethane	SW8260B	4/8/2009	10	1	8.80	12.2	µg/Kg	R19181
1,1-Dichloroethene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,1-Dichloropropene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,2-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Bromoform	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Chloroform	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Freon-113	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/8/2009	50	1	44.0	ND	µg/Kg	R19181
Fetrachloroethene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
rans-1,2-Dichloroethene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
rans-1,3-Dichloropropene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Trichloroethene	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Frichlorofluoromethane	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
/inyl chloride	SW8260B	4/8/2009	10	1	8.80	ND	µg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/8/2009	0	1	55.8-141	101	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/8/2009	0	1	59.8-148	92.0	%REC	R19181
Surr: Toluene-d8	SW8260B	4/8/2009	0	1	55.2-133	86.5	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers.

PES Environmental, Inc

Client Sample ID:BS-S-6.0Sample Location:4600-4700 Coliseum Wy,OaklanSample Matrix:SOILDate/Time Sampled4/8/2009 3:30:00 PM

Date Received: 4/8/2009 **Date Reported:** 4/9/2009

Lab Sample ID: 0904048-008 Date Prepared: 4/9/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1-Trichloroethane	SW8260B	4/9/2009	10	1	8.30	24.5	µg/Kg	R19181
I,1,2,2-Tetrachloroethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
1,1,2-Trichloroethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
I,1-Dichloroethane	SW8260B	4/9/2009	10	1	8.30	19.2	µg/Kg	R19181
I,1-Dichloroethene	SW8260B	4/9/2009	10	1	8.30	ND	μg/Kg	R19181
I,1-Dichloropropene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
,2-Dichlorobenzene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
1,2-Dichloroethane (EDC)	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
1,2-Dichloropropane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
1,3-Dichlorobenzene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
1,4-Dichlorobenzene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
2-Chloroethyl vinyl ether	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Bromodichloromethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Bromoform	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Bromomethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Carbon tetrachloride	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Chlorobenzene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Chloroethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Chloroform	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Chloromethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
cis-1,2-Dichloroethene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
cis-1,3-Dichloropropene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Dibromochloromethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Dichlorodifluoromethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Freon-113	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Methylene chloride	SW8260B	4/9/2009	50	1	41.5	ND	µg/Kg	R19181
Tetrachloroethene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
rans-1,2-Dichloroethene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
rans-1,3-Dichloropropene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Frichloroethene	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Frichlorofluoromethane	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
/inyl chloride	SW8260B	4/9/2009	10	1	8.30	ND	µg/Kg	R19181
Surr: 4-Bromofluorobenzene	SW8260B	4/9/2009	0	1	55.8-141	96.6	%REC	R19181
Surr: Dibromofluoromethane	SW8260B	4/9/2009	0	1	59.8-148	80.8	%REC	R19181
Surr: Toluene-d8	SW8260B	4/9/2009	0	1	55.2-133	79.7	%REC	R19181

Note: MRL (Modified Reporting Limit) has been corrected for actual mass removed from Encore containers.

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: 09-Apr-09

PES Environmental, Inc **CLIENT:** Work Order: 0904048

1148.001.03 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R19181

Sample ID MB_R19181	SampType: MBLK	TestCode: 8010_S BY 8 Units: µg/Kg				Prep Da	te: 4/8/200	09	RunNo: 19181			
Client ID: ZZZZZ	Batch ID: R19181	TestN	lo: SW8260B			Analysis Da	te: 4/8/200	09	SeqNo: 276	6975		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1-Trichloroethane	ND	10.0										
1,1,2,2-Tetrachloroethane	ND	10.0										
1,1,2-Trichloroethane	ND	10.0										
1,1-Dichloroethane	ND	10.0										
1,1-Dichloroethene	ND	10.0										
1,1-Dichloropropene	ND	10.0										
1,2-Dichlorobenzene	ND	10.0										
1,2-Dichloroethane (EDC)	ND	10.0										
1,2-Dichloropropane	ND	10.0										
1,3-Dichlorobenzene	ND	10.0										
1,4-Dichlorobenzene	ND	10.0										
2-Chloroethyl vinyl ether	ND	10.0										
Bromodichloromethane	ND	10.0										
Bromoform	ND	10.0										
Bromomethane	ND	10.0										
Carbon tetrachloride	ND	10.0										
Chlorobenzene	ND	10.0										
Chloroethane	ND	10.0										
Chloroform	ND	10,0										
Chloromethane	ND	10.0										
cis-1,2-Dichloroethene	ND	10.0										
cis-1,3-Dichloropropene	ND	10.0										
Dibromochloromethane	ND	10.0										
Dichlorodifluoromethane	ND	10.0										
Freon-113	ND	10.0										
Methylene chloride	ND	50.0										
Tetrachloroethene	ND	10.0										
trans-1,2-Dichloroethene	ND	10.0										
trans-1,3-Dichloropropene	ND	10.0										
Trichloroethene	ND	10.0										

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits Page 1 of 4

CLIENT: PES Environmental, Inc Work Order: 0904048 **Project:** 1148.001.03

ANALYTICAL QC SUMMARY REPORT

BatchID: R19181

Sample ID MB_R19181	SampType: MBLK	TestCode: 8010_S BY 8 Units: µg/Kg			Prep Date: 4/8/2009				RunNo: 19181		
Client ID: ZZZZZ	Batch ID: R19181	TestN	lo: SW8260B			Analysis Dat	e: 4/8/200	9	SeqNo: 276	6975	
		DOI	0.01/						** 555		4 9
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 4-Bromofluorobenzene	50.62	0	50	0	101	55.8	141				
Surr: Dibromofluoromethane	54.45	0	50	0	109	59.8	148				
Surr: Toluene-d8	49.04	0	50	0	98.1	55.2	133				
Sample ID LCS_R19181	SampType: LCS	TestCo	de: 8010_S B	Y 8 Units: µg/Kg		Prep Dat	e: 4/8/200	9	RunNo: 191	181	
Client ID: ZZZZZ	Batch ID: R19181	TestN	lo: SW8260B			Analysis Dat	e: 4/8/200	9	SeqNo: 276	6976	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	50.92	10.0	50	0	102	53.7	139				
Chlorobenzene	49.47	10.0	50	0	98.9	57.5	150				
Trichloroethene	46.09	10.0	50	0	92,2	57.4	134				
Surr: 4-Bromofluorobenzene	46.64	0	50	0	93.3	55.8	141				
Surr: Dibromofluoromethane	52,91	0	50	0	106	59.8	148				
Surr: Toluene-d8	49.49	0	50	0	99.0	55.2	133				
Sample ID LCSD_R19181	SampType: LCSD	TestCo	de: 8010_S B	Y 8 Units: µg/Kg		Prep Dat	e: 4/8/200	9	RunNo: 191	181	
Client ID: ZZZZZ	Batch ID: R19181	Test	No: SW8260B			Analysis Dat	e: 4/8/200	9	SeqNo: 276	6977	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.88	10.0	50	0	118	53.7	139	50.92	14,5	30	
Chlorobenzene	47.65	10.0	50	0	95.3	57.5	150	49.47	3.75	30	
Trichloroethene	48.38	10.0	50	0	96.8	57.4	134	46.09	4.85	30	
Surr: 4-Bromofluorobenzene	47.90	0	50	0	95.8	55.8	141	0	0	0	
Surr: Dibromofluoromethane	59.52	0	50	0	119	59.8	148	0	0	0	
Surr: Toluene-d8	46.36	0	50	0	92.7	55.2	133	0	0	0	

Qualifiers:

Value above quantitation range Ε

Holding times for preparation or analysis exceeded Н

J Analyte detected below quantitation limits

S

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Analyte detected octory generation generation of the second secon

PES Environmental, Inc **CLIENT:** 0904048 Work Order: 1148.001.03 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R19182

Sample ID MB-R19182	SampType: MBLK	TestCod	e: 8260B_S	Units: µg/Kg		Prep Da	Prep Date: 4/8/2009			RunNo: 19182			
Client ID: ZZZZZ	Batch ID: R19182	TestN	o: SW8260B			Analysis Da	te: 4/8/20	09	SeqNo: 270	6988			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1,1-Trichloroethane	ND	10											
1,1,2,2-Tetrachloroethane	ND	10											
1,1,2-Trichloroethane	ND	10											
1,1-Dichloroethane	ND	10											
1,1-Dichloroethene	ND	10											
1,1-Dichloropropene	ND	10											
1,2-Dichlorobenzene	ND	10											
1,2-Dichloroethane (EDC)	ND	10											
1,2-Dichloropropane	ND	10											
1,3-Dichlorobenzene	ND	10											
1,4-Dichlorobenzene	ND	10											
2-Chloroethyl vinyl ether	ND	10											
Bromodichloromethane	ND	10											
Bromoform	ND	10											
Bromomethane	ND	10											
Carbon tetrachloride	ND	10											
Chlorobenzene	ND	10											
Chloroform	ND	10											
Chloromethane	ND	10											
cis-1,2-Dichloroethene	ND	10											
cis-1,3-Dichloropropene	ND	10											
Dibromochloromethane	ND	10											
Dichlorodifluoromethane	ND	10											
Freon-113	ND	10											
Methylene chloride	ND	50											
Tetrachloroethene	ND	10											
trans-1,2-Dichloroethene	ND	10											
trans-1,3-Dichloropropene	ND	10											
Trichloroethene	ND	10											
Trichlorofluoromethane	ND	10											
Vinyl chloride	ND	10											

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits Page 3 of 4

CLIENT: PES Environmental, Inc Work Order: 0904048 **Project:** 1148.001.03

ANALYTICAL QC SUMMARY REPORT

BatchID: R19182

Sample ID MB-R19182	SampType: N	MBLK	د TestCode: 8260B_S Units: μg/Kg			Prep Date: 4/8/2009				RunNo: 19182		
Client ID: ZZZZZ	Batch ID: F			 lo: SW8260B			Analysis Dat		9	SegNo: 276	988	
										·		_
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene		47.35	0	50	0	94.7	55.8	141				
Surr: Dibromofluoromethane		58.37	0	50	0	117	59.8	148				
Surr: Toluene-d8		42.93	0	50	0	85.9	55.2	133				
Sample ID LCS-R19182	SampType: L	.cs	TestCoo	le: 8260B_S	Units: µg/Kg		Prep Dat	te: 4/8/200	9	RunNo: 191	82	
Client ID: ZZZZZ	Batch ID: F	R19182	TestNo: SW8260B				Analysis Dat	te: 4/8/200	9	SeqNo: 276	5989	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		54.71	10	50	0	109	53.7	139				
Chlorobenzene		51.61	10	50	0	103	57.5	150				
Trichloroethene		50.80	10	50	0	102	57.4	134				
Surr: 4-Bromofluorobenzene		47.11	0	50	0	94.2	55.8	141				
Surr: Dibromofluoromethane		57.99	0	50	0	116	59.8	148				
Surr: Toluene-d8		42,84	0	50	0	85.7	55.2	133				
Sample ID LCSD-R19182	SampType: L	_CSD	TestCoo	le: 8260B_S	Units: µg/Kg		Prep Da	te: 4/8/200)9	RunNo: 19	182	
Client ID: ZZZZZ	Batch ID: F	R19182	TestN	lo: SW8260B			Analysis Da	te: 4/8/200	9	SeqNo: 270	6990	
Analyte	1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		54.81	10	50	0	110	53.7	139	54.71	0.183	30	
Chlorobenzene		49.18	10	50	0	98.4	57.5	150	51.61	4.82	30	
Trichloroethene		49.46	10	50	0	98.9	57,4	134	50.8	2.67	30	
Surr: 4-Bromofluorobenzene		46.49	0	50	0	93.0	55.8	14 1	0	0	0	
Surr: Dibromofluoromethane		59.19	0	50	0	118	59.8	148	0	0	0	
Surr: Toluene-d8		42.16	0	50	0	84.3	55.2	133	0	0	0	

Qualifiers:

Е Value above quantitation range

Holding times for preparation or analysis exceeded Η

J Analyte detected below quantitation limits

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ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Analyte detected second second

PEC nvironmental, Inc. Engineering & Environmental Services		N OF CJSTODY						NOVATO BOL NOVATO, CAL 5) 899-1600	IFURNIA 94	
BORATORY: Torrent	SAMPLERS: C	JB/LM 090	404	8			AN	ALYSIS REQU	ESTED	
BNUMBER: 1148,001,03 ME/LOCATION: 4600-4700 Collsein W								- 90		
ME/LOCATION: 4600-4700 Collseum W	, Oakland							60,		
OJECT MANAGER: KSF		UB				SM		827		
DATE	MATRIX	# of Containers & Preservatives	DEP	тн	8010 8021	035/801 015M	8015M	by 8		
R MO DY TIME	Vapor Vater Soil Soil	Unpres. EnCore H ₂ SO ₄ HNO ₃	IN FEI	4	EPA 5035/8010 EPA 5035/8021	TPHg by 5035/801 TPHd by 8015M	TPHmo by 8015M EPA 8270C	MNA Parameters (see notes) 8010 by 8260		
9040814005W-N-3-0		3	-001	A				X		
1111114305W-S-3,		3	-002					X		
1440 SW-E-3.		3	-003			\top	+	V		
111111450541-4-8		3	-004				++-	X		
I I FOORSANTS		3	-00			++		X		
1111510BS-N-6	0 X	3	-000			++	$\uparrow \uparrow$	X		
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1520 BS-5-5. VV VV V530BS-5-6-		3	-008	A		11		X		
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* report results by 4	-9-09 2 08:00 av	TEDINOUISHED BY (signature)		RECEIVED	D BY: (Signature)		07	mat	DATE	TIME
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RESULTS FOR WASTE CHARACTERIZATION SAMPLES



order Barrenson

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Environmental, Inc. Project : 1148.001.03.002 Novato Boulevard Location : 4700 Coliseum Way Site, Oakland to, CA 94947 Level : II

<u>Sample ID</u> COMP RED <u>Lab ID</u> 211039-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Manager

Signature:

Senior Program Manager

Date: <u>04/09/2009</u>

Date: 04/15/2009

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 211039 PES Environmental, Inc. 1148.001.03.002 4700 Coliseum Way Site, Oakland 03/31/09 03/27/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 03/31/09. The sample was received cold and intact.

Metals (EPA 6010B) TCLP Leachate:

Barium was detected above the RL in the method blank for batch 149563. It was detected at a level well below the TCLP threshold and is lab artifact from the TCLP filter. No other analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:

Low recovery was observed for copper in the MSD for batch 149589; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

211039

From:"Gary Thomas, P.G." <gthomas@pesenv.com>To:"Lisa Brooker" <lisa@ctberk.com>Cc:"Kyle S. Flory" <kflory@pesenv.com>; "Chris Baldassari" <cbaldassari@pesenv.com>Sent:Tuesday, March 31, 2009 10:59 AMAttach:0650_001.pdfSubject:Coliseum Way Site, Oakland - Additional Analyses on COMP-RED sample

Hi Lisa – As indicated on the attached chain of custody, we would like to run various STLC and TCLP analyses on COMP-RED sample. We would like to do the indicated analyses on 72-Hour TAT so please let me know if this is possible.

Thanks, Gary

Lisa Brooker

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NOTES	010	CHA	IN OF C	USTODY RECORD		
Turn Around Time: 24 - Heav TAT	RELINGUESHED BY: Agnating		RECEIVE	RBY: (Signature)	DATE 3/27/0	TIME 1141
Select portion of samples for analysis (From top of soil tubes-indicated by RED	RELINQUISHED 84 (Signature)	•	RECEIVE	D BY: (Signature)	DATE	TIME
end caps, or, as indicated on orange _	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
	RELINQUISHED BY: (Signature)		RECEIVE	D BY: (Signature)	DATE	TIME
* Please retain unused portion of sample "COMP-RED" for 30 days (For potential	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
Page 7 of 4	METHOD OF SHIPMENT: Dropped off of	1 lab	1	1	l	1

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WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RECEIPT CHECKLIST	Curtis & Tompkins. Ltd.
Login # 20988 Date Received $3/27$ Client <u>Pes Cinvinniuntal</u> Project Date Opened $3/27/09$ By (print) <u>huning</u> Date Logged in U By (print)	109 Number of coolers 4600-4700 Coliseum Way St-14 Objectand, CA (sign) V
1. Did cooler come with a shipping slip (airbill, etc) Shipping info	YES NO
 2A. Were custody seals present? [] YES (circle) o How manyName	Date YES NO N/A YES NO tc)?
Bubble Wrap Foam blocks Babble Babbble Babble Babble Babble Babbble Babble Babble	ags DNone yrofoam Paper towels
Type of ice used: Wet Blue/Gel	None Temp(°C)
☐ Samples Received on ice & cold without a ten	
□ Samples received on ice directly from the field	
 8. Were Method 5035 sampling containers present?	r?YES NO ed tests?YES NO aplete?YES NO sted?YES NO YES NO YES NO N/A YES NO N/A YES NO N/A
SOP Volume: Client Services Section: 1.1.2	Rev. 6 Number 1 of 3 Effective: 23 July 2008

1.1.2 Page: l of l

Effective: 23 July 2008 Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc



	Metals An	alytical Report
Lab #:	211039	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3010A
Project#:	1148.001.03.002	Analysis: EPA 6010B
Field ID:	COMP RED	Sampled: 03/27/09
Matrix:	TCLP Leachate	Received: 03/27/09
Units:	ug/L	Prepared: 04/02/09
Diln Fac:	10.00	Analyzed: 04/02/09
Batch#:	149563	

Туре:	SAMPLE	Lab ID:	211039-001	
	Analyte	Result	RL	
Barium		1,400 b	50	
Chromium		160	50	
Lead		61	30	

Туре:	BLANK	Lab	ID: QC490148	
	Analyte	Result	RL	
Barium		170 b	50	
Chromium		ND	50	
Lead		ND	30	



	Metals Anal	ytical Report
Lab #:	211039	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 3010A
Project#:	1148.001.03.002	Analysis: EPA 6010B
Matrix:	TCLP Leachate	Batch#: 149563
Units:	ug/L	Prepared: 04/02/09
Diln Fac:	1.000	Analyzed: 04/02/09

Туре:	BS	Lab ID	QC4	190149		
	Analyte	Spiked	Result	*REC	Limits	
Barium		2,000	2,236	112	80-120	
Chromium		2,000	2,162	108	80-120	
Lead		2,000	2,233	112	80-120	

Туре:	BSD	Lab ID:	QC4	90150			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Barium		2,000	2,245	112	80-120	0	20
Chromium		2,000	2,168	108	80-120	0	20
Lead		2,000	2,247	112	80-120	1	20



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Metals Analytical Report					
Lab #:	211039	Location: 4700 Coliseum Way Site, Oakland			
Client:	PES Environmental, Inc.	Prep: EPA 3010A			
Project#:	1148.001.03.002	Analysis: EPA 6010B			
Field ID:	ZZZZZZZZZ	Batch#: 149563			
MSS Lab ID:	211048-001	Sampled: 03/24/09			
Matrix:	TCLP Leachate	Received: 03/25/09			
Units:	ug/L	Prepared: 04/02/09			
Diln Fac:	10.00	Analyzed: 04/02/09			

Туре:	MS		Lab ID:	QC490151		
	Analyte	MSS Result	Spiked	Result	%REC	Limits
Barium		876.9	2,000	2,936	103	76-120
Chromium		77.69	2,000	2,118	102	76-120
Lead		109.5	2,000	2,186	104	68-120

Lab ID: QC490151

Type: MSD		Lał	D ID: QC4	QC490152				
	Analyte	Spiked	Result	*REC	Limits	RPD	Lim	
Barium		2,000	2,874	100	76-120	2	20	
Chromium		2,000	2,061	99	76-120	3	20	
Lead		2,000	2,119	100	68-120	3	20	



Metals Analytical Report					
Lab #:	211039	Location: 4700 Coliseum Way Site, Oakland			
Client:	PES Environmental, Inc.	Prep: WET			
Project#:	1148.001.03.002	Analysis: EPA 6010B			
Field ID:	COMP RED	Sampled: 03/27/09			
Matrix:	WET Leachate	Received: 03/27/09			
Units:	uq/L	Prepared: 04/03/09			
Diln Fac:	10.00	Analyzed: 04/03/09			
Batch#:	149589				

Туре:	SAMPLE	Lab ID:	211039-001
Analy	te R	esult RL	
Barium		,700 250	0
Chromium	32	,000 250	0
Copper	1	,800 25	0
Lead		,000 15	0
Zinc	4 4 C	,000 1,00	0

Type:	BLANK	L	ab ID: QC490247	
Analyte	Analyte	Result	RL	
Barium		ND	250	
Chromium		ND	250	
Copper		ND	250	
Lead		ND	150	
Zinc		ND	1,000	

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Batch QC Report

Metals Analytical Report					
Lab #:	211039	Location: 4700 Coliseum Way Site, Oakland			
Client:	PES Environmental, Inc.	Prep: WET			
Project#:	1148.001.03.002	Analysis: EPA 6010B			
Matrix:	WET Leachate	Batch#: 149589			
Units:	ug/L	Prepared: 04/03/09			
Diln Fac:	1.000	Analyzed: 04/03/09			

Type: BS	Lab I	D: QC49	90248	
Analyte	Spiked	Result	*REC	Limits
Barium	2,000	1,915	96	80-120
Chromium	2,000	1,903	95	80-120
Copper	250.0	232.8	93	80-120
Lead	2,000	1,878	94	80-120
Zinc	500.0	471.2	94	80-120

Гуре:	BSD	Lab	ID: QC49	0249			
Ana	lyte	Spiked	Result	*REC	Limits	RPD	Lim
Barium	•	2,000	1,989	99	80-120	4	20
Chromium		2,000	1,975	99	80-120	4	20
Copper		250.0	242.3	97	80-120	4	20
Lead		2,000	1,953	98	80-120	4	20
Zinc		500.0	489.6	98	80-120	4	20



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т 1	211039	Location: 4700 Colise	um Way Site, Oakland
Lab #:		Prep: WET	
Client:	PES Environmental, Inc.	LICP.	
Project#:	1148.001.03.002	Analysis: EPA 6010B	
Field ID:	ZZZZZZZZZ	Batch#: 1495	
MSS Lab ID:	211004-001	Sampled: 03/1	7/09
Matrix:	WET Leachate	Received: 03/1	8/09
Units:	ug/L	Prepared: 04/0	3/09
Diln Fac:	10.00	Analyzed: 04/0	3/09

Type:

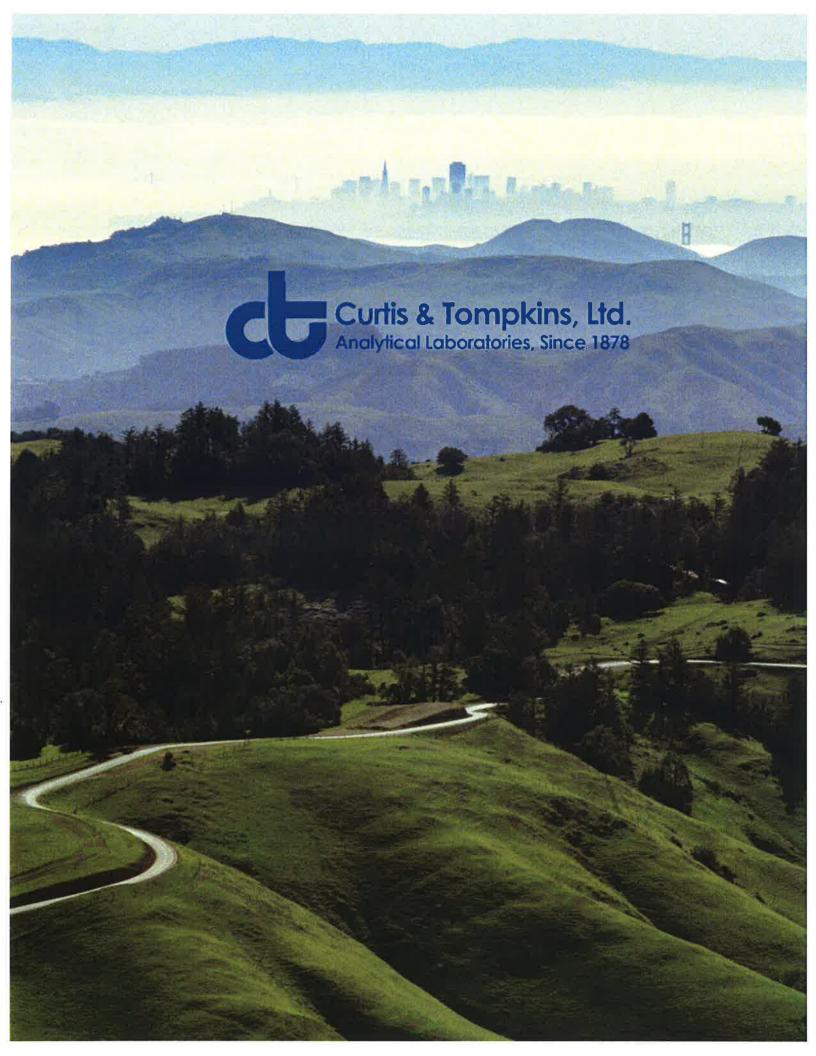
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Lab ID: QC490250

MSS Result	Spiked	Result	8REC	Limits
153.4	10,000	9,441	93	76-120
562.6	10,000	9,887	93	76-120
	1,250	5,846	75	73-120
•		9,297	93	68-120
		2,855	94	73-121
		153.4 10,000 562.6 10,000 4,908 1,250 <42.66 10,000	153.4 10,000 9,441 562.6 10,000 9,887 4,908 1,250 5,846 <42.66	153.4 10,000 9,441 93 562.6 10,000 9,887 93 4,908 1,250 5,846 75 <42.66

[ype:	MSD		Lab ID:	QC490251			
Analy	rte	Spiked	Resul	t %REC	Limits	RPD	Lim
Barium		10,000	9,472	93	76-120	0	20
Chromium		10,000	9,781	. 92	76-120	1	20
Copper		1,250	5,650) 59 *	73-120	3	20
Lead		10,000	9,299	93	68-120	0	20
Zinc		2,500	2,811	. 93	73-121	2	20





ANALYTICAL REPORT

	Project : 1148.001.03 Location : 4700 Coliseum Way Site, Oaklar Level : II	d
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<u>Sample ID</u>	<u>Lab ID</u>
STOCK-1	211344-001
STOCK-2	211344-002
STOCK-3	211344-003
STOCK-4	211344-004
TANK FLUID	211344-005
B-41-0	211344-006
B-42-0	211344-007
B-43-0	211344-008
STOCK-1,2,3,4 COMPOSITE	211344-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

ma Signature: Project Manager

Signature:

Senior Program Manager

Date: 04/22/2009

Date: 04/24/2009

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 211344 PES Environmental, Inc. 1148.001.03 4700 Coliseum Way Site, Oakland 04/10/09 04/10/09

This data package contains sample and QC results for four soil samples and one water sample, requested for the above referenced project on 04/10/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

Hexachlorobutadiene was detected above the RL in the method blank for batch 149923; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for chromium, molybdenum, and nickel in the MS/MSD for batch 149860; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was observed for antimony; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

DATE	CHAIN SAMPLERS: こう		RECORD 344) 1682 (415	NOVATO BOULERD, SUITE 100 NOVATO, CASFORNIA 94947 3) 899-1600 CAX (415) 899-1601 ALYSIS REQUESTED (A
NAME / LOCATION: 4700 (D/15 CUM WY, DAK AMP PROJECT MANAGER: KSF DATE SAMPLE NUMBER /	RECORDER: <u>CJ</u> MATRIX	B/LM # of Containers & Preservatives	DEPTH		North Days
YR MO DY TIME 10904101000540CK-1	Vapor Water Soil Sedim't	EnCore HA2SO4 HCI	IN FEET	EPA 5035/8010 EPA 5035/8021 EPA 5035/8021 EPA 5035/8021 TPHg by 5035/801 TPHmo by 8015M TPHmo by 8015M EPA 8270C	KIUE Scan Frue Scan Frue Scan Frue Scan Frue Scan
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4 5 V V V V 1315TmKFluid 6 1 1 1 3508-41-0	X	2 6			$\begin{array}{c c} x \\ x $
7 8 V V V V 14 10 B-413-0	X				

NOTES		CHA	AIN OF C	USTODY RECORD		
Turn Around Time: 48-how TAT	RELINQUISHED BY: (Signature)		1/2	DBY: (Signature)	DATE 4-10-09	TIME
* please composite samples Stock-1	RELINQUISHED BY: (Signature)		PIECEIVE	D BY: (Signature)	DATE	TIME
A single composite - do not run discretes.	RELINQUISHED BY: (Signature)		RECEIVE	D BY: <i>(Signature)</i>	DATE	TIME
	RELINQUISHED BY: (Signature)		RECEIVE	DBY: (Signature)	DATE	TIME
	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
	METHOD OF SHIPMENT:			L		
y white	E-Laboratory COPY YELLOW-Project Office Cop	y PINK-Field or O	ffice Copy			

COOLER RECEIPT CHECKLIST	Curtis & Foripkins. Ltd
Login # $\frac{211344}{\text{Des}}$ Date Received $\frac{4}{10}/09$ Client $\frac{10}{10}$	Sumber of coolers
Date Opened 410/09 By (print) Philophy Le (sign) Date Logged in By (print) (sign)	p.Ce
1. Did cooler come with a shipping slip (airbill, etc) Shipping info	YES NO
 2A. Were custody seals present? [] YES (circle) on cooler How manyName	Date YES NO (N/A) YES NO YES NO
Daubble Wrap Foam blocks Bags Cloth material Cardboard Styrofoam 7. Temperature documentation: Styrofoam	None Paper towels
Type of ice used:	ank
 8. Were Method 5035 sampling containers present?	YES NO YES NO YES NO YES NO YES NO YES NO YES NO N/A YES NO Date:
SOP Volume: Client Services Section: 1.1.2	······································

Page:

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Effective: 23 July 2008

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		Total	Volati	le Hydroca	arbons			
Lab #:	211344			Location:	4700 C	oliseum Way	Site, Oakland	
Client:	PES Environme	ental,	Inc.	Prep:	EPA 50	30B		
Project#:	1148.001.03			Analysis:	EPA 80	15B		
Field ID:	TANK FLUID			Batch#:		149843		
Matrix:	Water			Sampled:		04/10/09		
Units:	ug/L			Received:		04/10/09		
Diln Fac:	1.000							
Type:	SAMPLE			Analyzed:		04/11/09		
ab ID:	211344-005							
	nalyte		Result		RL	1 . J		
Gasoline C7-	C12	N	D		50			
	rrogate	%REC						
Trifluorotol		89	63-146					
Bromofluorob	enzene (FID)	93	70-140					
Type: Lab ID:	BLANK QC491322			Analyzed:		04/10/09		
	nalyte	1.5%	Result	19.19.1.1.1.1	RL		The state law	
Gasoline C7-	C12	N	D		50			
	rrogate	*REC		ang 'Et ika'				
Trifluorotol		104	63-146					
Bromofluorob	enzene (FID)	102	70-140					

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	Total Volat	ile Hydrocarbons	
Lab #:	211344	Location: 4700 Coliseum Way Site	e, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B	
Project#:	1148.001.03	Analysis: EPA 8015B	
Type:	LCS	Diln Fac: 1.000	
Lab ID:	QC491323	Batch#: 149843	
Matrix:	Water	Analyzed: 04/10/09	
Units:	ug/L	-	

Analyte	Spiked	Result	*REC	Limits
Gasoline C7-C12	2,000	1,762	88	76-121

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	143	63-146	
Bromofluorobenzene (FID)	110	70-140	



	Total Volat	ile Hydrocarbons
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#: 149843
MSS Lab ID:	211295-001	Sampled: 04/07/09
Matrix:	Water	Received: 04/08/09
Units:	ug/L	Analyzed: 04/10/09
Diln Fac:	1.000	

Type: MS			Lab ID:		QC49132	4			
Analyte	MSS Re	sult	Spike	d	Res	ult	%REC	Lin	nits
Gasoline C7-C12	51	7.4	2,000)	2,2	32	86	66-	-120
Surrogate	%REC	Limits							
Trifluorotoluene (FID)	137	63-146							
Bromofluorobenzene (FID)	116	70-140							
'ype: MSD			Lab ID:		QC49132	5			
Type: MSD Analyte		Spiked	Lab ID:	Result	QC49132	5 %REC	Limits	RPD	Lim
		Spiked 2,000	Lab ID:	Result 2,306	QC49132		Limits 66-120	RPD 3	Lim 20
Analyte	*REC		Lab ID:		QC49132	*REC			1.
Analyte Gasoline C7-C12	%REC 133	2,000	Lab ID:		QC49132	*REC			1.



	То	tal Extracta	able Hydro	carbons	
Lab #:	211344		Location:	4700 Coliseum Way Site	e, Oakland
Client:	PES Environment	cal, Inc.	Prep:	EPA 3520C	
Project#:	1148.001.03		Analysis:	EPA 8015B	
Field ID:	TANK FLUID		Sampled:	04/10/09	
Matrix:	Water		Received:	04/10/09	
Units:	ug/L		Prepared:	04/10/09	
Diln Fac:	1.000		Analyzed:	04/14/09	
Batch#:	149857				
Гуре:	SAMPLE		Lab ID:	211344-005	
	nalyte	Result		RL	
Diesel C10-C		1,500 Y		50	
Motor Oil C2	4-C36	820		300	
Su	rrogate	%REC Limits			
o-Terphenyl	1	61-127			
Iype:	BLANK		Lab ID:	QC491373	
	nalyte	Result	Model House and Au	RL 50	
Diesel C10-C		ND			
Motor Oil C2	4-036	ND		300	
Su	rrogate	%REC Limits			
o-Terphenyl	1	12 61-127			

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 1 of 1



Total Extractable Hydrocarbons						
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland				
Client:	PES Environmental, Inc.	Prep: EPA 3520C				
Project#:	1148.001.03	Analysis: EPA 8015B				
Type:	LCS	Diln Fac: 1.000				
Lab ID:	QC491374	Batch#: 149857				
Matrix:	Water	Prepared: 04/10/09				
Units:	ug/L	Analyzed: 04/14/09				

Cleanup Method: EPA 3630C

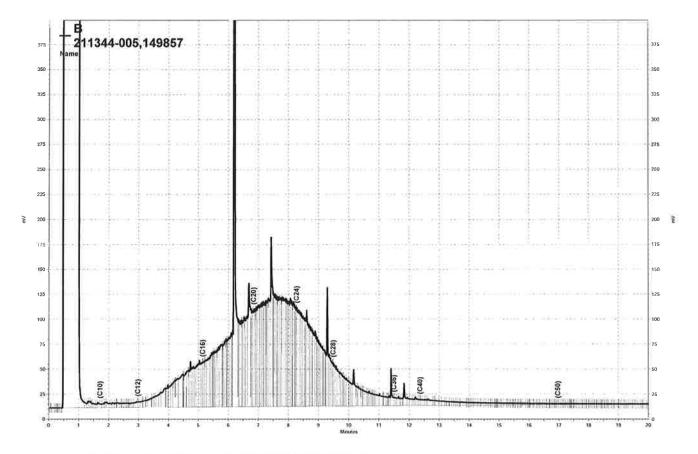
Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24		2,500	1,940	78	50-120
Surrogate	%REC	Limits			
o-Terphenyl	93	61-127			



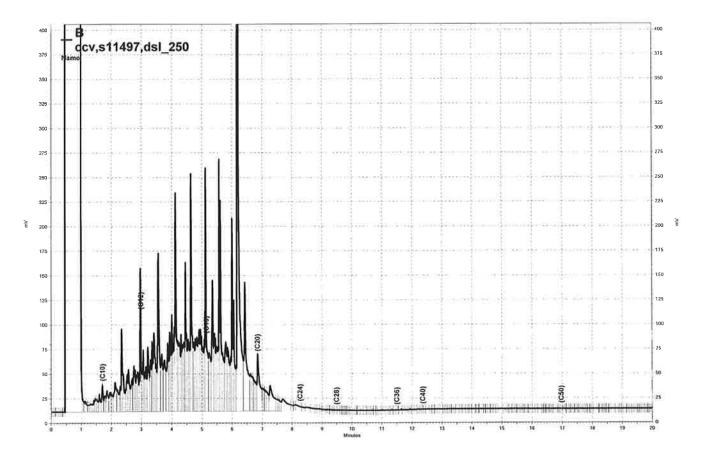
-

Batch QC Report

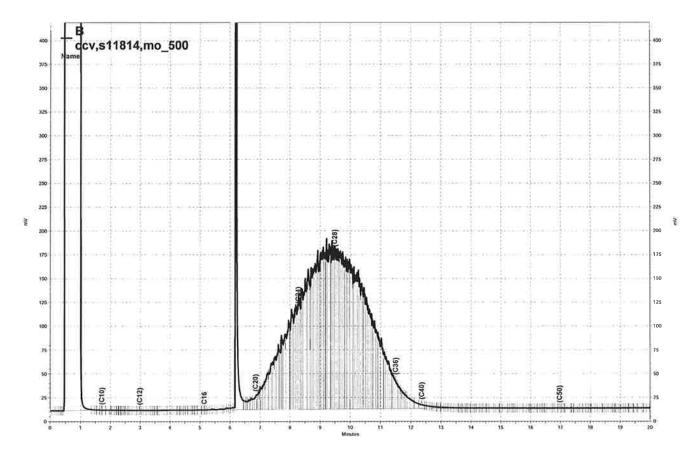
		Total	Extracta	ble Hydrocan	rbons				
Lab #:	211344			Location: 470)0 Coliseum	Way Si	te, Oakl	and	
Client:	PES Environm	ental,	Inc.	Prep: EPA	A 3520C	-			
Project#:	1148.001.03			Analysis: EPA	A 8015B				
Field ID:	ZZZZZZZZZ			Batch#:	149857	1			
MSS Lab ID:	211295-001			Sampled:	04/07/	09			
Matrix:	Water			Received:	04/08/	09			
Units:	ug/L			Prepared:	04/10/	09			
Diln Fac:	1.000			Analyzed:	04/20/	09			
Type:	MS			Cleanup Metho	Da: EPA 36	30C			
Analy		MSS Rea		Spiked		ult	*REC	Limi	
	yte		sult 9.16	Spiked 2,500	Res 2,0		%REC	Limi 38-1	
Analy Diesel C10-C24 Surr	yte		9.16						
Diesel C10-C24	yte 4	8	9.16						
Analy Diesel C10-C24 Surr o-Terphenyl	yte 4	8 *REC	9.16 Limits		2,0	025			
Analy Diesel C10-C24 Surr o-Terphenyl Type: Lab ID:	yte 4 rogate MSD	8 *REC	9.16 Limits	2,500 Cleanup Metho	2,0	025			27
Analy Diesel C10-C24 Surr o-Terphenyl Type: Lab ID:	MSD QC491376	8 *REC	9.16 Limits 61-127	2,500 Cleanup Metho	2,0 od: EPA 36	530C	77	38-1	27
Analy Diesel C10-C24 Surr o-Terphenyl Type: Lab ID: Ana Diesel C10-C24	MSD QC491376	8 *REC	9.16 Limits 61-127 Spiked 2,500	2,500 Cleanup Metho Res	2,0 od: EPA 36	530C \$ REC	77	38-1	27



- \\Lims\gdrive\ezchrom\Projects\GC14B\Data\103b050, B



- \\Lims\gdrive\ezchrom\Projects\GC14B\Data\103b045, B



- \\Lims\gdrive\ezchrom\Projects\GC14B\Data\103b046, B



1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Purgeable O	ganics by GC/MS	12 19 2 2
Lab #:	211344	Location: 4700 Coliseum Way Site,	Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B	
Project#:	1148.001.03	Analysis: EPA 8260B	
Field ID:	TANK FLUID	Batch#: 149923	
Lab ID:	211344-005	Sampled: 04/10/09	
Matrix:	Water	Received: 04/10/09	
Units:	ug/L	Analyzed: 04/14/09	
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1, 3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected RL= Reporting Limit

Page 1 of 2



	Purgeable O	rganics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Field ID:	TANK FLUID	Batch#: 149923
Lab ID:	211344-005	Sampled: 04/10/09
Matrix:	Water	Received: 04/10/09
Units:	ug/L	Analyzed: 04/14/09
Diln Fac:	1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	8REC	Limits	
Dibromofluoromethane	99	80-122	
1,2-Dichloroethane-d4	109	77-137	
Toluene-d8	101	80-120	
Bromofluorobenzene	96	80-125	

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Purgeable O	rganics by GC/MS
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 5030B Analysis: EPA 8260B
Type: Lab ID: Matrix: Units:	BLANK QC491642 Water ug/L	Diln Fac: 1.000 Batch#: 149923 Analyzed: 04/14/09

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
	ND	10
Acetone	ND	5.0
Freon 113		0.5
1,1-Dichloroethene	ND	10
Methylene Chloride	ND	
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
	ND	0.5
Benzene	ND	0.5
Trichloroethene		0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1.2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m, p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1 1 2 2 Motrachloroothanc	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane		0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	U.3

b= See narrative ND= Not Detected RL= Reporting Limit Page 1 of 2

1



Purgeak	le Org	ganics by	GC/MS
nental, In	ο.	Prep:	4700 Coliseum Way Site, Oakland EPA 5030B
		Analysis:	EPA 8260B
			149923
		Analyzed:	04/14/09
	esult		RL
			0.5
			0.5
			0.5
			0.5
			0.5
			0.5
			0.5
			0.5
			0.5
			0.5
ND	0.5	S.,	0.5
	0.5	Ø	0.5
			2.0
ND			0.5
& DEC	Limite		
	00		
	nental, Ind ND ND ND ND ND ND ND ND ND ND ND ND ND	Result ND ND	nental, Inc. Prep: Analysis: Diln Fac: Batch#: Analyzed: Result ND ND ND ND ND ND ND ND ND ND ND ND ND



	Purgeable O	rganics by GC/MS
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1148.001.03	Analysis: EPA 8260B
Matrix:	Water	Batch#: 149923
Units:	ug/L	Analyzed: 04/14/09
Diln Fac:	1.000	

Ype: BS	Lab II): QC49	1040	
Analyte	Spiked	Result	*REC	Limits
1,1-Dichloroethene	20.00	18.82	94	74-132
Benzene	20.00	21.83	109	80-120
Trichloroethene	20.00	21.48	107	80-120
Toluene	20.00	21.87	109	80-120
Chlorobenzene	20.00	22.19	111	80-120

Surrogate	%REC	Limits	
Dibromofluoromethane	99	80-122	
1,2-Dichloroethane-d4	111	77-137	
Toluene-d8	101	80-120	
Bromofluorobenzene	92	80-125	

Type: BSD		La	ab ID:	QC493	1641			
Analyte		Spiked		Result	*REC	Limits	RPD	Lim
1,1-Dichloroethene		20.00		16.69	83	74-132	12	20
Benzene		20.00		19.87	99	80-120	9	20
Trichloroethene		20.00		19.50	98	80-120	10	20
Toluene		20.00		20.07	100	80-120	9	20
Chlorobenzene		20.00		_20.21	101	80-120	9	20
Surrogate	%REC	Limits				17. YF ()-*		a a
Dibromofluoromethane	98	80-122						
1,2-Dichloroethane-d4	109	77-137						
Toluene-d8	100	80-120						

80-125

93

Bromofluorobenzene



	Purgeable O	rganics by GC/	'MS
Lab #:	211344	Location: 470	0 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	5030B
Project#:	1148.001.03	Analysis: EPA	8260B
Field ID:	STOCK-1,2,3,4 COMPOSITE	Diln Fac:	0.8772
Lab ID:	211344-009	Batch#:	149831
Matrix:	Soil	Sampled:	04/10/09
Units:	ug/Kg	Received:	04/10/09
Basis:	as received	Analyzed:	04/10/09

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	8.8
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	25	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Purgeable O	rganics by GC/	MS
Lab #:	211344	Location: 470	0 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: EPA	5030B
Project#:	1148.001.03	Analysis: EPA	8260B
Field ID:	STOCK-1,2,3,4 COMPOSITE	Diln Fac:	0.8772
Lab ID:	211344-009	Batch#:	149831
Matrix:	Soil	Sampled:	04/10/09
Units:	ug/Kg	Received:	04/10/09
Basis:	as received	Analyzed:	04/10/09

Analyte	Re	esult	RL	
Dibromochloromethane	ND		4.4	
1,2-Dibromoethane	ND		4.4	
Chlorobenzene	ND		4.4	
1,1,1,2-Tetrachloroethane	ND		4.4	
Ethylbenzene	ND		4.4	
m,p-Xylenes	ND		4.4	
o-Xylene	ND		4.4	
Styrene	ND		4.4	
Bromoform	ND		4.4	
Isopropylbenzene		4.8	4.4	
1,1,2,2-Tetrachloroethane	ND		4.4	
1,2,3-Trichloropropane	ND		4.4	
Propylbenzene		11	4.4	
Bromobenzene	ND		4.4	
1,3,5-Trimethylbenzene	ND		4.4	
2-Chlorotoluene	ND		4.4	
4-Chlorotoluene	ND		4.4	
tert-Butylbenzene	ND		4.4	
1,2,4-Trimethylbenzene		9.9	4.4	
sec-Butylbenzene		11	4.4	
para-Isopropyl Toluene	ND		4.4	
1,3-Dichlorobenzene	ND		4.4	
1,4-Dichlorobenzene	ND		4.4	
n-Butylbenzene		13	4.4	
1,2-Dichlorobenzene	ND		4.4	
1,2-Dibromo-3-Chloropropane	ND		4.4	
1,2,4-Trichlorobenzene	ND		4.4	
Hexachlorobutadiene	ND		4.4	
Naphthalene		6.4	4.4	
1,2,3-Trichlorobenzene	ND		4.4	

Surrogate	%REC	Limits	
Dibromofluoromethane	85	71-128	
1,2-Dichloroethane-d4	100	69-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	127	77-131	

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Purgeable Or	ganics by GC/MS	
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland	
Client:	PES Environmental, Inc.	Prep: EPA 5030B	
Project#:	1148.001.03	Analysis: EPA 8260B	
Type:	BLANK	Basis: as received	
Lab ID:	QC491267	Diln Fac: 1.000	
Matrix:	Soil	Batch#: 149831	
Units:	ug/Kg	Analyzed: 04/10/09	

Analyte	Result	RL	
Freon 12	ND	10	
Chloromethane	ND	10	
Vinyl Chloride	ND	10	
Bromomethane	ND	10	
Chloroethane	ND	10	
Trichlorofluoromethane	ND	5.0	
Acetone	ND	10	
Freon 113	ND	5.0	
1,1-Dichloroethene	ND	5.0	
Methylene Chloride	ND	20	
Carbon Disulfide	ND	5.0	
MTBE	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
Vinyl Acetate	ND	50	
1,1-Dichloroethane	ND	5.0	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	5.0	
2,2-Dichloropropane	ND	5.0	
Chloroform	ND	5.0	
Bromochloromethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
1,1-Dichloropropene	ND	5.0	
Carbon Tetrachloride	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Trichloroethene	ND	5.0	
1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0	
Dibromomethane	ND	5.0	
4-Methyl-2-Pentanone	ND	10	
cis-1, 3-Dichloropropene	ND	5.0	
Toluene	ND	5.0	
trans-1,3-Dichloropropene	ND	5.0	
1,1,2-Trichloroethane	ND	5.0	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	5.0	
Tetrachloroethene	ND	5.0	

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS				
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland		
Client:	PES Environmental, Inc.	Prep: EPA 5030B		
Project#:	1148.001.03	Analysis: EPA 8260B		
Type:	BLANK	Basis: as received		
Lab ID:	QC491267	Diln Fac: 1.000		
Matrix:	Soil	Batch#: 149831		
Units:	ug/Kg	Analyzed: 04/10/09		

Analyte	Result	RL	
Dibromochloromethane	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Chlorobenzene	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	
Styrene	ND	5.0	
Bromoform	ND	5.0	
Isopropylbenzene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
1,2,3-Trichloropropane	ND	5.0	
Propylbenzene	ND	5.0	
Bromobenzene	ND	5.0	
1,3,5-Trimethylbenzene	ND	5.0	
2-Chlorotoluene	ND	5.0	
4-Chlorotoluene	ND	5.0	
tert-Butylbenzene	ND	5.0	
1,2,4-Trimethylbenzene	ND	5.0	
sec-Butylbenzene	ND	5.0	
para-Isopropyl Toluene	ND	5.0	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND	5.0	
n-Butylbenzene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2,4-Trichlorobenzene	ND	5.0	
Hexachlorobutadiene	ND	5.0	
Naphthalene	ND	5.0	
1,2,3-Trichlorobenzene	ND	5.0	

Surrogate	*REC	Limits	
Dibromofluoromethane	87	71-128	
1,2-Dichloroethane-d4	101	69-135	
Toluene-d8	104	80-120	
Bromofluorobenzene	88	77-131	

ND= Not Detected RL= Reporting Limit

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	Purgeable Org	anics by GC/MS	
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland	
Client:	PES Environmental, Inc.	Prep: EPA 5030B	
Project#:	1148.001.03	Analysis: EPA 8260B	
Matrix:	Soil	Diln Fac: 1.000	
Units:	ug/Kg	Batch#: 149831	
Basis:	as received	Analyzed: 04/10/09	

Type:	BS	Lab I	D: QC49	1268	
	Analyte	Spiked	Result	%REC	Limits
1,1-Dichlor	roethene	25.00	23.10	92	73-135
Benzene		25.00	25.90	104	80-125
Trichloroet	hene	25.00	27.03	108	80-127
Toluene		25.00	26.21	105	80-126
Chlorobenze	ene	25.00	27.84	111	80-120

Surrogate	*REC	Limits	
Dibromofluoromethane	92	71-128	
1,2-Dichloroethane-d4	99	69-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	90	77-131	

Type: BSD		Lab	ID:	QC493	1269			
Analyte	Sp	iked		Result	*REC	Limits	RPD	Lim
1,1-Dichloroethene		25.00		21.16	85	73-135	9	20
Benzene		25.00		25.75	103	80-125	1	20
Trichloroethene		25.00		26.79	107	80-127	1	20
Toluene		25.00		24.90	100	80-126	5	20
Chlorobenzene		25.00		27.67	111	80-120	1	20
Surrogate	%REC L	imits						
Dibromofluoromethane	95 7	1-128						
1,2-Dichloroethane-d4	102 6	9-135						
Toluene-d8	101 8	0-120						

77-131

88

Bromofluorobenzene



Purgeable Organics by GC/MS				
Lab #:	211344	Location: 470	0 Coliseum Way Site, Oakland	
Client:	PES Environmental, Inc.	Prep: EPA	5030B	
Project#:	1148.001.03	Analysis: EPA	8260B	
Field ID:	ZZZZZZZZZ	Diln Fac:	0.9901	
MSS Lab ID:	211320-001	Batch#:	149831	
Matrix:	Soil	Sampled:	04/08/09	
Units:	ug/Kg	Received:	04/09/09	
Basis:	as received	Analyzed:	04/10/09	

Type:

MS

Lab ID: QC491364

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9901	49.50	43.71	88	58-145
Benzene	<0.9901	49.50	46.16	93	56-126
Trichloroethene	<0.9901	49.50	48.96	99	50-142
Toluene	<0.9901	49.50	44.30	89	52-125
Chlorobenzene	<0.9901	49.50	49.84	101	46-120

Surrogate	%REC	Limits	
Dibromofluoromethane	88	71-128	
1,2-Dichloroethane-d4	88	69-135	
Toluene-d8	94	80-120	
Bromofluorobenzene	89	77-131	

Type:	MSD	Lab ID:	QC49	1365			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichlo	roethene	49.50	41.56	84	58-145	5	28
Benzene		49.50	44.68	90	56-126	3	26
Trichloroe	thene	49.50	48.43	98	50-142	1	29
Toluene		49.50	44.32	90	52-125	0	29
Chlorobenz	ene	49.50	46.29	94	46-120	7	29

Surrogate	*REC	Limits	and the second
Dibromofluoromethane	87	71-128	
1,2-Dichloroethane-d4	89	69-135	
Toluene-d8	96	80-120	
Bromofluorobenzene	86	77-131	



1.000

0.25

04/11/09

			Le	ad				
Lab #:	211344			Location:	4700 Coli	seum Way	Site,	Oakland
Client:	PES Enviro	onmental, i	Inc.	Prep:	EPA 3050B			
Project#:	1148.001.0	03		Analysis:	EPA 6010B			
Analyte:	Lead			Batch#:	14	9860		
Matrix:	Soil			Sampled:	04	/10/09		
Units:	mg/Kg			Received:	04	/10/09		
Basis:	as receive	ed		Prepared:	04	/10/09		
Field ID	Туре	Lab ID	Resul	t	RL		Diln Fa	c Analyzed
B-41-0	SAMPLE 2	211344-006	1,900)	1.	3 1	0.00	04/13/09
B-42-0	SAMPLE 2	211344-007	410)	Ο.	25 1	.000	04/11/09
B-43-0	SAMPLE	211344-008	200)	0.	25 1	.000	04/11/09

ND

BLANK QC491383

ND= Not Detected RL= Reporting Limit Page 1 of 1



				Lead	i					
Lab #	:	211344		Lc	cation:	4700 Coli	lseum	Way	Site, Oa	kland
Clien	t:	PES Environm	ental, Inc.	Pr	ep:	EPA 3050B	3			
Proje	ct#:	1148.001.03		An	alysis:	EPA 60108	3			
Analy	rte:	Lead		Ва	isis:	as	s rece	eive	1	
Field	ID:	ZZZZZZZZZZ		Ba	tch#:	14	19860			
MSS L	ab ID:	211344-006		Sa	ampled:	04	4/10/0)9		
Matri	x:	Soil		Re	eceived:	04	4/10/0)9		
Units	:	mg/Kg		Pr	repared:	04	4/10/0)9		
Туре	Lab ID	MSS Result	Spiked	Result	*REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC491384		100.0	95.20	95	80-120		1.11	1.000	04/11/09
BSD	QC491385		100.0	95.30	95	80-120	0	20	1.000	04/11/09
MS	QC491386	1,908	93.46	684.3	-1310 N	IM 49-124			10.00	04/13/09
MSD	QC491387		90.91	663.0	-1370 N	IM 49-124	3	31	10.00	04/13/09



	1. A	Califor	nia Ti	tle 22 M	ietals		
Lab #:	211344			Project#:	1148.001.0)3	
Client:	PES Environmen	tal, Inc.		Location:	4700 Colis	seum Way Sit	e, Oakland
Field ID:	STOCK-1,2,3,4	COMPOSITE		Basis:	as	received	
Lab ID:	211344-009			Diln Fac:	1.(000	
Matrix:	Soil			Sampled:	04,	/10/09	
Units:	mg/Kg			Received:	04,	/10/09	
Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50		04/10/09		EPA 3050B	EPA 6010B
Arsenic	5.4	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Barium	280	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Chromium	47	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Cobalt	8.2	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Copper	17	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Lead	37	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Mercury	0.099	0.020	149892	04/13/09	04/13/09	METHOD	EPA 7471A
Molybdenum	0.43	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Nickel	56	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Selenium	ND	0.50	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Silver	ND	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Thallium	ND	0.50	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Vanadium	32	0.25	149860	04/10/09	04/11/09	EPA 3050B	EPA 6010B
Zinc	72	1.0	149860	04/10/09	04/13/09	EPA 3050B	EPA 6010B



California Title 22 Metals								
Lab #:	211344	Location: 4700) Coliseum Way Site, Oakland					
Client:	PES Environmental, Inc.	Prep: EPA	3050B					
Project#:	1148.001.03	Analysis: EPA	6010B					
Type:	BLANK	Diln Fac:	1.000					
Lab ID:	QC491383	Batch#:	149860					
Matrix:	Soil	Prepared:	04/10/09					
Units:	mg/Kg	Analyzed:	04/11/09					
Basis:	as received							

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.25	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



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	California Title 22 Metals						
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B					
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: 149860 Prepared: 04/10/09 Analyzed: 04/11/09					

Type: BS	Lab ID:	QC491	1384	
Analyte	Spiked	Result	*REC	Limits
Antimony	100.0	105.4	105	80-120
Arsenic	50.00	49.98	100	80-120
Barium	100.0	104.9	105	80-120
Beryllium	2.500	2.723	109	80-120
Cadmium	10.00	9.876	99	80-120
Chromium	100.0	101.0	101	80-120
Cobalt	25.00	24.43	98	80-120
Copper	12.50	12.32	99	80-120
Lead	100.0	95.20	95	80-120
Molybdenum	20.00	21.35	107	80-120
Nickel	25.00	24.66	99	80-120
Selenium	50.00	47.99	96	80-120
Silver	10.00	10.08	101	80-120
Thallium	50.00	47.51	95	80-120
Vanadium	25.00	25.99	104	80-120
Zinc	25.00	22.44	90	80-120

Lab ID:	QC493	1385			
Spiked	Result	%REC	Limits	RPD	Lim
100.0				0	20
50.00				0	20
100.0					20
2.500	2.789			2	20
10.00	10.13			3	20
100.0	103.0	103		2	20
25.00	25.07	100		3	20
12.50	12.60	101	80-120	2	20
	95.30	95	80-120	0	20
	21.33	107	80-120	0	20
	24.62	98	80-120	0	20
	48.19	96	80-120	0	20
		103	80-120	2	20
			80-120	0	20
			80-120	2	20
				3	20
	Spiked 100.0 50.00 100.0 2.500 10.00 100.0	$\begin{array}{c ccccc} \textbf{Spiked} & \textbf{Result} \\ \hline 100.0 & 105.7 \\ 50.00 & 49.84 \\ 100.0 & 107.4 \\ 2.500 & 2.789 \\ 10.00 & 10.13 \\ 100.0 & 103.0 \\ 25.00 & 25.07 \\ 12.50 & 12.60 \\ 100.0 & 95.30 \\ 20.00 & 21.33 \\ 25.00 & 24.62 \\ 50.00 & 48.19 \\ 10.00 & 10.28 \\ 50.00 & 47.65 \\ 25.00 & 26.50 \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



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	California Title 22 Metals						
Lab #: Client: Project#:	211344 PES Environmental, Inc. 1148.001.03	Location: 4700 Coliseum Way Site, Oakland Prep: EPA 3050B Analysis: EPA 6010B					
Field ID: MSS Lab ID: Matrix: Units: Basis:	ZZZZZZZZZ 211344-006 Soil mg/Kg as received	Batch#: 149860 Sampled: 04/10/09 Received: 04/10/09 Prepared: 04/10/09					

Туре:	MS		Lab ID:	QC4	491386	
Analyte	MSS Result	Spiked	Result	%REC	Limits Diln Fac	Analyzed
Antimony	<0.1101	93.46	15.51	17	5-120 1.000	04/11/09
Arsenic	8.377	46.73	40.41	69	65-120 1.000	04/11/09
Barium	1,770	93.46	1,604	-178 NM	40-141 10.00	04/13/09
Beryllium	0.2793	2.336	2.062	76	75-120 1.000	04/11/09
Cadmium	0.6345	9.346	6.896	67	63-120 1.000	04/11/09
Chromium	307.8	93.46	240.4	-72 *	52-128 1.000	04/11/09
Cobalt	11.42	23.36	24.25	55	50-120 1.000	04/11/09
Copper	31.39	11.68	35.91	39	38-149 1.000	04/11/09
Lead	1,908	93.46	684.3	-1310 NM	49-124 10.00	04/13/09
Molybdenum	20.23	18.69	13.99	-33 *	62-120 1.000	04/11/09
Nickel	31.82	23.36	38.64	29 *	34-148 1.000	04/11/09
Selenium	<0.8387	46.73	40.11	86	63-120 10.00	04/13/09
Silver	<0.03099	9.346	6.705	72	66-120 1.000	04/11/09
	<0.03033	46.73	29.47	63	57-120 1.000	04/11/09
Thallium	31.45	23.36	47.38	68	41-146 1.000	04/11/09
Vanadium		23.36	1,894	-841 NM	25-159 10.00	04/13/09
Zinc	2,091	23.30	1,094	-041 MM	20 100 10.00	01/10/00

Туре:	MSD	1	Lab ID:	QC491	387		
Analyte	Spiked	Result	%REC	Limits RPD	Lim	Diln Fac	Analyzed
Antimony	90.91	21.90	24	5-120 37 *	31	1.000	04/11/09
Arsenic	45.45	46.38	84	65-120 16	24	1.000	04/11/09
Barium	90.91	1,471	-328 NM	40-141 8	31	10.00	04/13/09
Beryllium	2.273	2.388	93	75-120 17	21	1.000	04/11/09
Cadmium	9.091	8.105	82	63-120 19	20	1.000	04/11/09
Chromium	90.91	254.6	-59 *	52-128 6	25	1.000	04/11/09
Cobalt	22.73	28.72	76	50-120 19	26	1.000	04/11/09
Copper	11.36	38.83	66	38-149 9	28	1.000	04/11/09
Lead	90.91	663.0	-1370 NM	49-124 3	31	10.00	04/13/09
Molybdenum	18.18	16.89	-18 *	62-120 20	20	1.000	04/11/09
Nickel	22.73	47.15	67	34-148 21	30	1.000	04/11/09
Selenium	45.45	37.99	84	63-120 3	20	10.00	04/13/09
Silver	9.091	7.888	87	66-120 19	20	1.000	04/11/09
Thallium	45.45	33.73	74	57-120 16	20	1.000	04/11/09
Vanadium	22.73	53.82	98	41-146 14	24	1.000	04/11/09
Zinc	22.73	1,891	-878 NM	25-159 0	33	10.00	04/13/09

*= Value outside of QC limits; see narrative NM= Not Meaningful: Sample concentration > 4X spike concentration RPD= Relative Percent Difference Page 1 of 1



		Zinc			
Lab #:	211344	Location: 47	00 Coliseum Wa	y Site, C	akland
Client:	PES Environmental, Inc.	Prep: EP	A 3050B		
Project#:	1148.001.03	Analysis: EP	PA 6010B		
Analyte:	Zinc	Batch#:	149860		
Matrix:	Soil	Sampled:	04/10/09		
Units:	mg/Kg	Received:	04/10/09		
Basis:	as received	Prepared:	04/10/09		
Field ID	Type Lab ID	Result	RL	Diln Fac	Analyzed

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
B-41-0	SAMPLE	211344-006	2,100	8.9	10.00	04/13/09
B-42-0		211344-007	410	1.0	1.000	04/11/09
B-43-0		211344-008	600	9.4	10.00	04/13/09
		QC491383	ND	1.0	1.000	04/11/09

ND= Not Detected RL= Reporting Limit Page 1 of 1



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				Zinc					
Lab #:		211344		Lo	cation:	4700 Coliseum	n Way	Site, Oal	cland
Client:		PES Environm	ental, Inc.	Pr	ep:	EPA 3050B			
Project	:#:	1148.001.03		An	alysis:	EPA 6010B			
Analyte		Zinc		Ba	sis:	as rec	ceived		
Field I		ZZZZZŻZZZZ		Ba	tch#:	149860)		
MSS Lab	DID:	211344-006		Sa	mpled:	04/10/	/09		
Matrix:		Soil		Re	ceived:	04/10/	/09		
Units:		mg/Kg		Pr	epared:	04/10/	/09		
(There is	Lab ID	MSS Result	Spiked	Result	*REC	Limits RPD	Lim	Diln Fac	Analyzed
-11-	C491384	M55 Result	25.00	22.44		80-120		1.000	04/11/09
	C491385		25.00	23.05		80-120 3		1.000	04/11/09
4	C491385	2,091	23.36	1,894		M 25-159	1000	10.00	04/13/09
1	C491387	,	22.73	1,891	-878 N	IM 25-159 0	33	10.00	04/13/09

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Batch QC Report

Lab #:	211344	Location: 470	O Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: MET	HOD
Project#:	1148.001.03	Analysis: EPA	
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC491505	Batch#:	149892
Matrix:	Soil	Prepared:	04/13/09
Units:	mg/Kg	Analyzed:	04/13/09



California Title 22 Metals						
Lab #:	211344	Location: 4700 Coliseum Way Site, Oakland				
Client:	PES Environmental, Inc.	Prep: METHOD				
Project#:	1148.001.03	Analysis: EPA 7471A				
Analyte:	Mercury	Diln Fac: 1.000				
Matrix:	Soil	Batch#: 149892				
Units:	mg/Kg	Prepared: 04/13/09				
Basis:	as received	Analyzed: 04/13/09				

Туре	Lab ID	Spiked	Result	*REC	Limits	RPD	Lim
BS	QC491506	0.5000	0.5190	104	80-120		
BSD	QC491507	0.5000	0.5110	102	80-120	2	20

RPD= Relative Percent Difference Page 1 of 1



Lab #:	211344	Location: 470	00 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep: MET	THOD
Project#:	1148.001.03	Analysis: EPA	A 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZ	Batch#:	149892
MSS Lab ID:	211123-001	Sampled:	04/02/09
Matrix:	Soil	Received:	04/02/09
Units:	mg/Kg	Prepared:	04/13/09
Basis:	as received	Analyzed:	04/13/09

Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC491508	0.09647	0.5208	0.6563	107	64-138		
MSD	QC491509		0.4717	0.5811	103	64-138	4	27

APPENDIX E

WASTE DISPOSAL INFORMATION



MARCOR Remediation, Inc. 6644 Sierra Lane Dublin, CA 94568-2793



Safety Beyond Compliance!

MARCOR Job 22-05445-001 Weber Soil Excavation 4700 Coliseum Way, Oakland, CA

WASTE DISPOSAL & BACKFILL LOG

SOIL DI	SPOSAL	VOC Material	Soil w/Lead
Date	Tag #	To Forward Landfill	To Kettleman Landfill
5/20/2009	20489	44.13	
5/21/2009	21701	35.33	
5/19/2009	19699		16.42
5/20/2009	21301		13.71
5/22/2009	21307		13.25
5/26/2009	21706		10.39
TOTAL TONNAG	E:	79.46	53.77
		VOC Material	Soil w/Lead

Soil Bin Rental	Bin #	April	May
4/8 - 4/30/09	204	22	
4/8 - 4/30/09	209	22	
4/10 - 4/30/09	211	20	
	April Rental:	64	
5/01 - 5/26/09	204		26
5/01 - 5/22/09	209		22
5/01 - 5/22/09	211		22
5/19 - 5/20/09	298228		2
5/19 - 5/20/09	298235		2
	May Rental:		74
TOTAL DAYS RENTE	ED:		138

BACKFILL MATERIAL						
Date	Tag #	TYPE	TONS			
5/22/2009	22670	3/4" Drain Rock	12.78			

	LIQ	UID DISPOSAL	
Date	Tag/ Manifest #	Туре	Gallons
5/19/2009	508298	UST Liquid	875
6/9/2009	M22052901	Ground Water	110
TOTAL GALLO	NS:		985

		ANK DISPOSAL	
Date	Tag/ Manifest #	Туре	Quantity
5/20/2009	00507308JJK	Steel 12'x4'	1

5/17/04 Prepared by Enid Covart

SOIL DISPOSAL AND BACKFILL MATERIAL

E Santa Rosa, CA 954	RTATIOI ay, Suite 100		MAY 1 S	22391 2009
Phone: (707) 578-0 Fax: (707) 578-5	960		n.	FREIGHT BILL
DATE:	TRAILER #: TRAILER #: .vel)	1 20 <u>09</u> 114	<	EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
PRIME CARRIER: Intrinsic T GENERATOR: Marcor LOAD SITE: 4700 Coliseur CITY: Oakland CA.	m Wy	DUMP SITE: CITY:		
SERVICE PERFORMED: Trunsport Jobsite	Hard Bil	s to	TOTAL HOURS,	
LOADING DELAYS:			TONS, OR LOAD Bin Delive RATE SUBTOTAL	-y
UNLOADING DELAYS:		з ⁴	Bin Liner	-2-
MISCELLANEOUS NOTES: Adder Bins		L# 29\$235	2	<u> </u>
Serial #5 No #Son Bhs Install Liners s	upplied by	us		
MANIFEST #s:				
SCALE TAG #s:			TOTAL CHARGE	s
START G: 45 Am STOP/ 2:45 Py	DEDUCTIONS	NET	Receivables, App	roval
DBUVER Jo - fler	RECEIVED BY	The C	Payroll Approval	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

LINTR TRANSPOF 2225 Challenger Way	RTATION	IC, INC.		20489	۶
Santa Rosa, CA 9540 Phone: (707) 578-09 Fax: (707) 578-54	60	2	MAY 2 7 2	009 FREIGHT E	BILL
DATE:	TRAILER #: 7	86		EPA # CAR0001652 DMV # CA 309780 DTSC # 4797 CHP # 136439	74
PRIME CARRIER: <u>PNTRINSIC</u> GENERATOR: <u>MARCO</u> LOAD SITE: <u>4700 Colds</u> CITY: <u>OAKLAND</u>	R SUME WAY	DUMP SITE: 9	MANTEC	IUSTIN RD	
SERVICE PERFORMED:			OFF	FICE USE ONLY	
① 303448 - ② 303449 - ② 303449 - UNLOADING DELAYS:		J Dut	TOTAL HOURS, TONS, OR LOAD RATE SUBTOTAL		3
MISCELLANEOUS NOTES: 2. U MANIFEST #s:	DADS				3
SCALE TAG #s:			TOTAL CHARGE	is is	
START STOP	DEDUCTIONS	NET Z ADS	Receivables, App		
DRIVER AMON WEL	RECEIVED BY		Payroll Approval	l	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

 Manteca, CA 95336 Landfill: 209-982-429 Resource Recovery: 	8 Fax: 209-982-1009 Stockt	Vest Charter Way on, CA 95206 Office: 209-466-448)9-466-1067	DATE: 520	
CUSTOMER NO	9017 TRUCK	NO: A. J.	TRAILER LIC #:	
		and the second second	Same and Same 18	
	BILL TO: MErir	BIC	Trans.	
		170	<	The state of the
1		in the line	r Jonna	en an Angel - Eine ge
			1 18 19 Tel 26 Tel 19 Office de State	The second s
SIZE YDS	DESCRIPTION	NOTES		1
SIZE YDS	C REFUSE	NOTES	-12/1/10	0000
SIZE YDS	REFUSE TREATED WOOD	NOTES	73440	GROSS
SIZE YDS	C REFUSE	NOTES	73440	GROSS
SIZE YDS	REFUSE TREATED WOOD SLUDGE ASH ASBESTOS	NOTES	73440	GROSS
	REFUSE TREATED WOOD SLUDGE ASH ASBESTOS NON-FRIABLE ASBESTOS	NOTES	73440	
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Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891	Sunshine Canyon Landfill 14747 San Fernando Blvd. Sylmar, CA 91342 Phone (818) 833-6500 Fax (818) 362-5484	Ox Mountai Sanitary Lai 12310 San Matec Half Moon Bay, C Phone (650) 726- Fax (650) 726-91	n dfill 9 Road 0A 94019 1819	Sanitai 1601 Dixo Milpitas, C	08) 945-2800	Forward Landfill 9999 S. Austin Ro Manteca, CA 953 Phone (209) 982-4 Fax (209) 982-100
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SIGNATURE OF AUTHO	774	DATE	SPECIAL HA	NDLING	PROCEDURES	
*KER20 Here	l fize (on behalf of n Weber) Pistnurronn	verta 5/20/09				
waste as defined by 40 CFR Part 2 described, classified and packaged regulations: AND. If the waste is a	I hereby certify that the above named materi 261 or title 22 of the California code of regulat 3 and is in proper condition for transportation treatment residue of a previously restrict citions, I contify and warrant that the waste ha of 40 CFR Part 268 and is no longer a hazaro	ions, has been properly ancording to applicable ed bazardous waste	RECEIVING	FACILITY	na produktion (* 1997) 1997 - Joseph Constant, francés 1997 - Joseph Constant, francés (* 1997) 1997 - Joseph Constant, francés (* 1997)	mut an an the second second
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Pittsburg, CA 94565 Sylmar, CA 91342 Phone (925) 458-9800 Phone (818) 833-650 Fax (925) 458-9891 Fax (818) 362-5484	Half Moon Bay, 0 00 Phone (650) 726 Fax (650) 726-91	1819;- Phone	is, CA 95035 (408) 945-2800 08) 262-2871	Manteca, CA 95336 Phone (209) 982-429 Fax (209) 982-1009
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GENERATOR'S CERTIFICATION ! hereby certify that the above n	amed malerial is not a bazardous			- ganetic an planet prove
 waste as defined by 40 CFR Part 261 of title 22 of the California co described, classified and packaged, and is in proper condition for in regulations; AND, if the waste is a treatment residue of a previo 	ode of regulations, has been properly ransportation a cording to applicable	W. Laka to be		
subject to the Land Disposal Restrictions, I certify and warrant that accordance with the requirements of 40 CFR Part 268 and is no for 40 CFR Part 261.	the waste has been treated in nger a hazardous waste as defined by .	RECEIVING FACIL	JTY	
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

	RTATIO	the second s		21701
2225 Challenger W Santa Rosa, CA 954 Phone: (707) 578-0	07 960		MAY 2 2 2009	9
Fax: (707) 578-5	408			FREIGHT BILL
DATE:	TRAILER #:			EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
PRIME CARRIER: Intrinsic Tra	insportation		Forward Le	adfill Inc.
GENERATOR: John Weber		DUMP SITE:	9999 So.	Austin Ro
LOAD SITE: 4000 - 4700 Col,	seum Long	1	stelle Ch.	
CITY: Oakland CA.	/			
SERVICE PERFORMED: Hand Con	taminated	Dit	OFI	FICE USE ONLY
to Waste Site	Marcor		TOTAL HOURS,	s 35,33
LOADING DELAYS:			RATE	
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			-	
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SCALETAG #s: 438796 43	8622		-	
JUNE ING #5. 138 / / * 1			TOTAL CHARGE	s
START 6. 3= 44 STOP 4.00 Pm	DEDUCTIONS	NET	Receivables, App	iroval i
DRIVER The from	RECEIVED BY		Payroll Approval	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

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Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891	Sunshine Canyon Landfill 14747 San Fernando Blvd. Sylmar, CA 91342 Phone (818) 833-6500 Fax (818) 362-5484	Ox Mounta Sanitary La 12310 San Mate Half Moon Bay, Phone (650) 726 Fax (650) 726-91	ndfill San to Road 1601 CA 94019 Milpit -1819 Phon	vby Island litary Landfill Dixon Landing Road tas, CA 95035 e (408) 945-2800 408) 262-2871	Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-429 Fax (209) 982-1009
	NON-HA	ZARDOUS WA	STE MANIFEST		
GENERATOR John Weber			W	ASTE ACCEPTAN	CE NO.
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regulations; AND, If the waste is a t subject to the Land Disposal Restrict	reatment realdue of a previously restric tions, I certify and warrant that the waste h 40 CFR Part 268 and is no longer a hazar	ted hazardous waste as been treated in	RECEIVING FACI	LITY	
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SENERATING FACILITY 4600-4700 Ct	oliseum Way Oakl				
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RANSPORTER. Jutrinsic	Transportation		1	LICENSE NUMBER	TRUCK NUMBER
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901 Balley Road 14747 San Fernando Blvd. Pittsburg, CA 94565 Sylmar, CA 91342 Phone (925) 458-9800 Phone (818) 833-6500 Fax (925) 458-9891 Fax (818) 362-5484	12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183	Sanitary Landfill 1601 Dixon Landing Roac Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871	Landfill 9999 S. Austin Rod Manteca, CA 9533 Phone (209) 982-4 Fax (209) 982-100
NON-HAZ	ZARDOUS WASTE MA	NIFEST	
GENERATOR John Weber		WASTE ACCEPT	ANCE NO.
MAILING ADDRESS 555 California Street, Floor 10		-9017	
CITY, STATE, ZIP	REQU	RED PERSONAL PROTE	
San Francisco, CA 94104-1513 PHONE	di GLOV	and the second of the second second second second	State records of the set of the set of the
(415) 889-1600 CONTACT/PERSON	STTY-VE	K D SAFETY VEST	
Cory Indines		L HANDLING PROCEDURE	Set for the set of the set
SIGNATURE OF AUTHORIZED AGENT / TITLE Hypel fizo (m behall of Joh Weber) PSTAVIEVIE GENERATOR'S CERTIFICATION: I hereby certify that the above named materia waste as defined by 40 CFR Part 261 or title 22 of the California code of regulatil described, classified and packaged, and is in proper condition for transportation	ions, has been properly		
regulations, AND, if the waste is a treatment residue of a previously restrict subject to the Land Disposal Restrictions, I certify and warrant that the waste has accordance with the requirements of 40 CFR Part 268 and is no tonner a bazari	ad hazardous waste	ING FACILITY	
WASTETYPE:	2 / / / / / / / / / / / / / / / / / / /		
DISPOSAL CONSTRUCTION DEBRIS DSPECIAL WASTE GENERATING FACILITY			
4600-4700 Coliseum Way Oakla	nd	and the second	
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	RTATIO		(*) 9)	19699
2225 Challenger Wa Santa Rosa, CA 954 Phone: (707) 578-0	07		MAY 2 7 2009	
Fax: (707) 578-5				FREIGHT BILL
DATE: 5 / TRUCK #: 514 SUBHAULER: Dow Come PRIME CARRIER: Ontrins GENERATOR: John Webe LOAD SITE: Colliger We	TRAILER #: / 之	CUSTOMER:	ewm Kettte man	EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
CITY: Oak Land 6			- ca cl - 110m	
SERVICE PERFORMED: P.U. 2 6 Clansport Contents Ca LOADING DELAYS:	s to Kett	Iman lity	OFFIC TOTAL HOURS, "ONS OR LOADS Trans RATE SUBTOTAL	
UNLOADING DELAYS:	**		Disposal	16.42 Ton
MISCELLANEOUS NOTES:				
MANIFEST #s: 004786543				
SCALETAG #S: 25950/0 = 22			TOTAL CHARGES	
START STOP	DEDUCTIONS	NET	Receivables, Approv	ral l
DRIVER	RECEIVED BY		Payroll Approval	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

INIFORM HAZARDO			COMPLETE CONTRACTOR CONTRACTOR	ergency Respons	e Phone	4. Manifest	Tracking N 478	umber	12	
WASTE MANIFEST Generator's Name and I	GACE0264 Mailing Address	1302		10-321-1030 ator's Site Addres	s (if different th	an mailing addre	410	034	10.1	JUIX
John Weber 555 California S	8 04. 1			4600-4700 (Oakland, C)	Collesum V	a strange generation		× .	1	12
diferator a Fridile.	116-669-1600	See Shares	and the second of the se	e Annie	the second		20	1	9	1 - 12 12 - 12 - 12 - 12 - 12 - 12
Transporter 1 Company	onation, inc.			2.48.5			R000165	874	3.6	
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WEIGHT (LB) TEME DATE GROSS 4:57 5-19-48 77524-11, 38.79 ton TARE:	COMMODITY: HAZARDOUS WASTE DEPUTY WEIGHMASTER
NET: 16:29 05-19-09 447401b 22.37 to YARDAGE:	This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAFTER 7 (commencing with \$12700) of Division 3 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.
GENERADOR MANIFEST PROBLE	47576755 100 mage
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Ph	none: (707) 578-09 x: (707) 578-54	60	340		FREIGHT BILL
TRUCK #: 514					EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
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All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

1 37	INIFORM HAZARDOUS WASTE MANIFEST	1 Generator ID Nu CACCO2		and the	2. Page 1 of 1 3	Emergency Respor 800-321-1030	ise Phone	4: Manifes	Tracking I	Number	ad. OMB No	1
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96	Los Mo Bornit	tion (including Proper :	Shipping Name, Haza	ard Class, ID Number,		10, Cont		11. Total	12. Unit	1	3. Waste Cod	les
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WEIGHT (LB) TIME DATE COMMODITY: HAZARDOUS WASTE 12.1 CHEMICAL WASTE MANAGEMENT, INC. 71820 10 10 35.91 100 EIGHMA DEPUTY WEIGHMASTER GROSS: YYE 35251 Old Si NO: TARE: WEIGHMASTER CERTI 15:57 05-20-09 444001b 22.20 to This is to certify th NET: weight GHMASTE accuracy, as [§12700) of D CHAPTER 11 YARDAGE: Cali D GENERATOR PROFILE MANIFEST 1111 lik 8 Ter-TRAILER LICENSE NO. TRACTOR LIGENSE BIN # RECEIPT # BA 14 ŵ a. *

	INTR	RTATIO			22670
	2225 Challenger Wa Santa Rosa, CA 9540 Phone: (707) 578-09)7)60		JUN 0 ± 200	19
DATE: TRUCK #: SUBHAULER:	143 Benda	TRAILER #:		8095	FREIGHT BILL EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
PRIME CARRIER GENERATOR: LOAD SITE: CITY:	Sypi	p 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CUSTOMER: DUMP SITE: CITY: P.O. #:	- Cak	land
SERVICE PERFOR	RMED:	Import		OF TOTAL HOURS TONS, OR LOAD	
LOADING DELA	YS:			Tran S RATE SUBTOTAL	
UNLOADING DE	LAYS:				
MISCELLANEOU	s notes:			3/4" Drain	Rock 12.78 Tons
MANIFEST #s:	A				
SCALE TAG #s:	187	30644		TOTAL CHARGE	
START	STOP	DEDUCTIONS	NET	Receivables, App	
DRIVER		RECEIVED BY		Payroll Approva	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

				21307
2225 Challenger V			JUN OR 2	000
Santa Rosa, CA 954	407		JUNICAZ	003
Phone: (707) 578-				
Fax: (707) 578-				FREIGHT BILL
DATE: <u>5</u> /				EPA # CAR000165274
TRUCK #:		115		DMV # CA 309780 DTSC # 4797
SUBHAULER: DON CAMY				CHP #136439
PRIME CARRIER: On Trinsie		CUSTOMER:		CWM
GENERATOR: John Weber				
LOAD SITE: Coliseum L			Kettema	D.T. D
CITY: Oakland	eccy	P.O. #:		en aug ca
SERVICE PERFORMED: Pul. D	Give at	Oak land P	0	FFICE U
and transport Co.				, DS
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MISCELLANEOUS NOTES:				
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MANIFEST #s: 00478654	2			
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			TOTAL CHARG	ES
START STOP	DEDUCTIONS	NET	Receivables, Ap	proval
DRIVER	RECEIVED BY		Payroll Approva	al
7-				

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

N	FORM HAZARDOUS	1	ator ID Number	2, /	2. Page 1	of 3. Emergency R 600-321-	esponse Phone	4. Manifes	st Tracking I	Number	ed. OMB No 12 J	May.
	eperetor's Name and Mailing Soft California Stread San Francisco, CA erator's Phone: 415-	, Floor	10 1613			4600-4	Address (if different 1700 Colliseum 10, CA 94601	than mailing addr	ress)		/	
6. Tra	ansporter 1 Company Name Intrinsic Transportati	ion, Inc					<u>en en e</u>	U.S. EPAID	Number	274		
7. Tr	ansporter 2 Company Name				ana na ana ang ang ang ang ang ang ang a	<u>an an a</u>	ingen i sen die R	U.S. EPA ID	Number	<u>en en e</u>		
	edaneled Earlike Name and 35251 Old Skyline M Kettleman Olty, CA itys Phone: 559-386 9	10ad 93:139 711				8		U.S. EPA ID CA	Number TOOOS45	117		
9a. HM	9b. U.S. DOT Description and Packing Group (if an	n (includin y))	ng Proper Shipping	Name, Hazard Cla	ss, ID Number,	10. No	Containers	11. Total Quantity	VI2-Unit WEAVOL	13	. Waste Cod	es
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• WEIGHT (LB) TIME 1 4 DATE COMMODITY: HAZARDOUS WASTE CHEMICAL WASTE MANAGEMENT, INC. WEIGHMASTER weighed at 33251 Old Skyline Rood Kettleman City, CA 11.1.03 DEPUTY WEIGHMASTER GROSS A TA 71040 10 110 5 R 35.52 ton 25966 NO TARE: WEIGHMASTER CERTIFICAT NET: This is to certify that the follo This is to certify that the routwring peterpipe common weighed, meanered, or counted by a WB/GHAASTER signature is on this certificate, who just recognized aut accuracy, as prescribed by CHAPPER ? (commencing \$12700) of Division 5 of the California Business & Pro Code, administered by the Division of Measurement SI California Department of Food and Agriculture. 16:27 05-92-09 445401b 22.27 to GHMASTER WARDAGE: JENERATOR MANIFEST ROFIL Mark Co 2 η. 14-11 TRAILER LICENSE NO RECEIPT # TRACTOR LICENSE #

CHI KANG

XCIA

INTRINS TRANSPORTATION 2225 Challenger Way, Suite 100	_		21706
Santa Rosa, CA 95407 Phone: (707) 578-0960 Fax: (707) 578-5408		JUN 0 1 2009	FREIGHT BILL
DATE:			EPA # CAR000165274 DMV # CA 309780 DTSC # 4797 CHP # 136439
PRIME CARRIER: Intrinsic Transportation GENERATOR: John Weber LOAD SITE: 4600 - 4700 Coliseum Way CITY: Dakland CA.	DUMP SITE: 3	5251 old leman City	ste Management Skyline Rd ch.
SERVICE PERFORMED: Transport Had Bin La Lead & Oxide paint Containingted S Placard # 3877 LOADING DELAYS:	2074 Doil	OFF TOTAL HOURS, TONS, OR LOAD RATE SUBTOTAL	
UNLOADING DELAYS:	-22	Disposa	10.39 Tong
MISCELLANEOUS NOTES: Preload Bils on 5 for 5-26 dump			
MANIFEST #S: 004786541 JJK		-	
SCALE TAG #s: 259696		TOTAL CHARGE	s
START 3: 00 5-22 STOP : 45 5.26 DEDUCTIONS	NET	Receivables, App	proval
DRIVER BAIL PROVENDED BY		Payroll Approval	

All invoices are due and payable net 30 days. An annual percentage rate of 18% will be prorated monthly on all past due accounts. Costs for collection will be the responsibility of the customer.

	VASTE MANIFEST	inerator ID Number CACO02641352		1 80	ergency Response 10-321-1030	11. 11.	4. Manifest	Tracking M	Number 3654	. ОМВ No	Same La
	enerator's Name and Mailing Add John Weber 585 California Street, Fi San Francisco, CA 941	007 10 04-1513		Genera	tor's Site Address 4600-4700 C Oakland, CA	oliseum v	nan mailing addre	ss)			
6. Tr	erator's Phone: 415-669 ansporter 1 Company Name Intrinsic Transportation,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1928 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1 		an an thair a she		U.S. EPA ID	Number ROOCIES	073		
	ansporter 2 Company Name	a Marina Karina ang Karina					U.S. EPAID				<u>C</u>
	esignated Facility Name and Site Cifernical Waste Wanag 35251 Old Skyline Road Kettleman City, CA 932 ity's Phone: 559-355-9711						U.S. EPAID CA	Number ICCC646	117	-	
9a. - HM	9b. U.S. DOT Description (Incl and Packing Group (if any))	uding Proper Shipping Nam	e, Hazard Class, ID Numbe		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Cod	es .
	^{1.} RG, Environmental contaminated with	ly Hazaldous Subai: red oxide paint), 9, (ances, Solid, N.O.S UNISO77, Pialli). (Levi)(Soli		Ghi	18	Y	611 save (2.7 1.7 1.7	34
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	3.									ا <u>ر الانتيار</u> المراجع	9. 19.
	4.			<u>a an an</u>					mat di sa	<u>ataine :</u> Salatai	
15. 0	Wear Proper Clothing W ERG # 171 Ptollie # CA576795 (Hi GENERATOR'S/OFFEROR'S CE narked and labeled/placarded, an	A Sell) RTIFICATION: I hereby dec id are in all respects in prope of this consignment conforn n statement identified in 40 (clare that the contents of this recondition for transport acc	s consignment are fully a cording to applicable inter	nd accurately designational and natio	cribed above nal governme	ental regulations.	Contra data	and the second	m the Prim	aged, ary Yea
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1-10 WEIGHT (LB) TIME DATE COMMODITY: HAZARDOUS WASTE CHEMICAL WASTE MANAGEMENT, INC. WHIGHMASTER weighed at 35251 Old Styline Road . -* las = DEPUTY WEIGHMASTER GROSS:H:12 5-26-09 61940/10 30.97 ton 2 NO: TARE: WEIGHMASTER CERTIFICATE NET: 08:42 05-26-09 411601b This is to certify that the following described commodity weighed, measured, or consted by a WHIGHMASTER, w signature is on this certificate, who is a recognized author accuracy, as prescribed by CHAFTER 7 (conneccing w §12700) of Division 3 of the California Business & Profe Code, administred by the Division of Measurement Stam California Department of Food and Agriculture. 20.58 to YARDAGE: GENERATOR MANIFEST TRAILER LICENSE NO RECEIPT •书行,六告 10161 TOR LICENSE BIN

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