PES Environmental, Inc.
Engineering & Environmental Services

A Report Prepared For:

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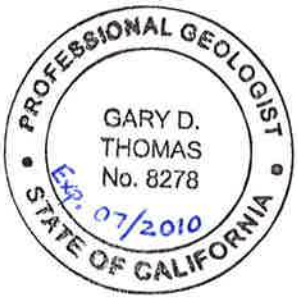
UNDERGROUND STORAGE TANK REMOVAL REPORT
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

JULY 1, 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 a recently completed underground storage tank (UST) removal at 4600-4700 Coliseum Way, Oakland, California (the Site). The Site location is shown on Plate 1.

The UST was encountered following investigations conducted in response to a request from Alameda County Department of Environmental Health (ACDEH). In a March 13, 2009 letter[1] issued by the ACDEH, the following technical comment related to a gasoline tank noted on historical Sanborn maps for the Site was provided by ACDEH staff:

- "Gasoline Tank. A 6,000-gallon gasoline tank was noted in the northwestern portion of the site on historical 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".

During a telephone conversation with the ACDEH in March 2009, PES agreed to conduct a geophysical survey to assess whether an UST was present in the area of the gasoline tank shown on the historical Sanborn maps. The results the geophysical survey are presented is Section 3.0. In addition to the geophysical survey results, this report: (1) summarizes background information including previous investigations conducted in the vicinity of the UST; (2) presents the procedures and methods used to remove the UST; (3) presents the results of soil and groundwater verification samples collected from the UST excavation; and (4) presents conclusions and recommendations based upon the verification sample results and previous samples collected in the vicinity of UST.

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, a large warehouse building in the central portion of the Site, and a small former shed near the northeastern property boundary (Plate 2). The Site is located in a

[1] Alameda County Health Care Services Agency, Environmental Health Services, Environmental Protection, 2009. *Subject: SLIC Case No. RO0002995 and Geotracker Global ID T10000000883, 4600-4700 Coliseum Way, Oakland, CA 94601*. March 13.

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. 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, 2007a), 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, 2007a). 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, 2007a). 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, 2008). Groundwater flow in the vicinity of the Site is generally toward the south (ERAS, 2007a).

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, 2008). 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, 2008).

As discussed in Section 2.4 below, shallow groundwater in the vicinity of the Site is impacted by regional total petroleum hydrocarbon (TPH) and volatile organic compound (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 Previous Environmental Investigations in the Vicinity of the UST

2.4.1 Recent Phase I ESAs

AEI conducted a Phase I ESA at the Site in 2007 (AEI, 2007). AEI indicated their assessment revealed the following RECs:

- The use of the subject property for industrial purposed since at least 1925;
- The historical presence of railroad spurs on or near the Site;
- The presence of a gasoline tank shown on Sanborn maps between 1953 and 1969; and
- "The adjacent properties to the north, northeast, east, and southeast have been grouped together as a common source of historical releases that occurred on each of the four properties, resulting in a comingled plume".

AEI recommended a subsurface soil and/or groundwater investigation to evaluate the identified RECs.

In 2007, ERAS also conducted a Phase I ESA at the Site (ERAS, 2007a). ERAS prepared an addendum to their Phase I ESA report (ERAS, 2007b). ERAS' Phase I ESA and addendum did not contain any additional significant findings regarding the subject property.

2.4.2 PIERS January 2008 Phase II Investigation

In January 2008, based on the investigation and recommendations of AEI, PIERS conducted a soil and groundwater investigation at the Site that involved advancing five borings (i.e., borings B1 through B5, see Plate 2 for locations) and collecting a four point composite sample along the former railroad spur (i.e., composite sample from locations S1A through

S1D, see Plate 2 for locations). The purposes of borings B1 through B5 were as follows (PIERS, 2008):

- B1 through B3 were located in the northeastern portion of the Site to investigate potential off-Site sources "that could cause contamination to migrate in groundwater beneath the Property"; and

- Borings B4 and B5 were located at and adjacent to the location of the former gasoline tank location shown on historical Sanborn maps.

A copy of PIERS *Limited Phase II Site Investigation Report* is included in Appendix A. As indicated on Table 1 in Appendix A, very low concentrations of toluene (maximum concentration of 1.3 micrograms per liter [μg/L]) were detected in the groundwater samples collected from the borings advanced in the vicinity of the former gasoline tank (i.e., borings B4 and B5) and the boring located approximately 60 feet northeast of the former gasoline tank (i.e., boring B3). Hydrocarbons were detected in the groundwater samples from these borings.

Hydrocarbons and VOCs were not detected in the soil samples collected from borings B4 and B5. VOC were not detected in the soil sample collected from boring B3; the sample from this boring was not analyzed for hydrocarbons. TPH quantified as diesel (TPHd) and motor oil (TPHmo) were detected at concentrations of 9.9 and 84 mg/kg in the composite sample collected along the former railroad spur; VOCs and PCBs were not detected in this sample.

3.0 SUMMARY OF METHODSAND RESULTS OF GEOPHYSICAL SURVEY

To evaluate the presence of an UST potentially remaining on the subject property, PES' subcontractor, C. Cruz Sub-Surface Locators, Inc. (C. Cruz) of Milpitas, California, performed a geophysical survey on April 8, 2009, to assess the potential presence of the gasoline tank identified on Sanborn maps. Survey activities were performed under PES' oversight. As shown on Plate 2, the survey was conducted in an area approximately 50- by 50-foot in size. The survey was performed on a 5-foot by 5-foot grid using geophysical equipment. In summary, the geophysical survey indentified a large subsurface metal object consistent with the signature produced by an UST.

With the assistance of an earthwork contractor working at the Site, PES investigated the UST feature on April 9 and 10, 2009. The findings are summarized below:

- Excavation activities revealed that the UST was approximately 4 feet in diameter and 12 feet in length and the top of the UST was about 3 feet bgs. Based on these dimensions the UST was estimated to have a capacity of 1,100 gallons. Liquid contained in the UST was estimated to be within 12 inches of the top of the UST, which correlated to approximately 900 gallons of liquid; and

- The liquid present in the UST was sampled by PES on April 10, 2009 and analyzed for VOCs and total petroleum hydrocarbons quantified as gasoline (TPHg) by U.S. Environmental Protection Agency (EPA) Test Method 8260B, and TPHd and TPHmo by U.S. EPA Test Method 8015M. The analytical results are summarized on Table 1 and the laboratory reports and sample chain-of-custody forms for this sample are included in Appendix B. As indicated on Table 1, the liquid in the UST contained TPHd and TPHmo at 1,500 μg/L and 820 μg/L, respectively. No TPHg, benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl ether (MTBE) or other VOCs were present at or above the respective laboratory reporting limits (Table 1 and Appendix B).

4.0 UST REMOVAL

Marcor Environmental (Marcor), a HAZWOPER-trained contractor from Dublin, California, was retained by PES to conduct the UST removal. Prior to removing the UST, Marcor obtained the necessary removal permit from the Oakland Fire Department, Fire Protection Bureau (Oakland Fire Department). The permit is included in Appendix C. The Oakland Fire Department is the Certified Unified Program Agency (CUPA) for tank removals conducted in Oakland.

The UST was removed by Marcor using a tire-mounted backhoe on May 20, 2009. The removal was performed under the oversight of the Oakland Fire Department and PES. Prior to the commencement of the UST removal, PES and Marcor prepared Health and Safety Plans (HASP) for their personnel to addresses the identification of hazards, hazard mitigation, safe work practices, and emergency response procedures for the project.

4.1 Tank Removal Activities, Verification Sampling and Analyses

The UST was removed using the following procedures:

- On May 19 and 20, 2009, approximately 2.5 feet of soil were removed from the top and sides of the UST to allow the UST to be removed. The excavated soil was placed on plastic sheeting;

- On May 19, 2009, the contents of the UST were removed by Evergreen Environmental Services using a vacuum truck equipped with an intrinsically safe pump. The contents (approximately 875-gallons) were recycled off-Site as discussed in Section 4.4;

- On May 20, 2009, groundwater that had accumulated in the UST overnight was removed and stored on-Site in two 55-gallon drums. Groundwater was present at a depth of approximately 5.5 feet bgs. The contents of the drums were recycled off-Site as discussed in Section 4.4; and

- Approximately 50 pounds of dry ice were placed in the UST to inert the atmosphere within the UST. Lower explosive limit (LEL) and percent (%) oxygen measurements were taken about 10-minutes after adding the dry ice were 0% and 10.5%, respectively. Based on these readings, the Oakland Fire Department representative indicated that it was safe to remove the UST. No pipe lines were connected to UST.

Once removed from the excavation and placed on plastic sheeting, the integrity of the UST was evaluated. The inspection revealed numerous holes ranging from pinhole size to 1-inch diameter. The largest holes were located on the bottom of the UST.

The soil in the UST excavation was inspected for staining and screened for the presence of total VOCs by placing the soil in resealable plastic bags and evaluating the head-space with a portable photoionization detector (PID). The inspection and PID head-space measurements revealed that there was no evidence of petroleum hydrocarbon-impacted soil. The lateral extent of the excavation is shown on Plate 3; the excavation was extended to a depth of approximately 6 feet bgs.

To assess soil conditions, two sidewall samples (USTSW-NW and USTSW-SE) were collected just above the soil/groundwater interface in the locations shown on Plate 3 as directed by Oakland Fire Department personnel. The sidewall samples were collected from capillary fringe soil immediately above the groundwater at a depth of approximately 4.5 feet bgs. Soil from the sidewalls was obtained using the backhoe and then either an Encore® soil sampler or stainless-steel liner was pushed directly into fresh, undisturbed soil in the backhoe bucket to collect samples for laboratory analysis. In accordance with U.S. EPA Method 5035, an Encore® soil sampler was used to collect samples for TPHg, BTEX, MTBE and fuel oxygenate analysis in accordance with U.S. EPA Method 5035, and samples for TPHd, TPHmo and LUFT metals (cadmium, chromium, lead, nickel, and zinc) analysis was collected in a stainless-steel liner. The ends of the stainless-steel liners were sealed with teflon sheeting and plastic end caps. Following sample collection, the sample containers were labeled for identification and immediately placed in a chilled, thermally insulated cooler containing bagged ice.

To assess groundwater conditions, a sample was collected from a small area in the southeastern portion of the excavation that was extended to a depth of approximately 7 feet bgs to allow for the accumulation of groundwater. Prior to collecting the sample, the area sampled was purged and lowed to refill. No evidence of a sheen or floating product was observed. The groundwater sample was collected using a new disposable polyethylene cup attached to a metal rod. The sample was then decanted into appropriate pre-cleaned, laboratory-provided sample containers. Following sample collection, the sample containers were labeled for identification and immediately placed in a chilled, thermally insulated cooler containing bagged ice.

The soil and groundwater samples were sent under chain-of-custody documentation to Curtis & Tompkins, Ltd. (C&T) in Berkeley, California, which is a California state-certified laboratory for chemical analysis performed. The samples were analyzed for:

- TPHg by U.S. EPA Test Method 8015B;
- TPHd and TPHmo by U.S. EPA Test Method 8015B (including a silica gel cleanup);
- BTEX, MTBE, and fuel oxygenates by U.S. EPA Test Method 8060B; and
- LUFT metals (cadmium, chromium, lead, nickel, and zinc) by U.S. EPA Test Method 6010B.

4.2 Verification Sample Results

The verification soil and groundwater results are present on Tables 2 and 3, respectively, and Plate 3. The laboratory reports and sample chain-of-custody forms for the verification samples are included in Appendix B.

The soil results were compared to the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) risk-based Environmental Screening Level (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). The ESLs were developed by the RWQCB to be protective of human health and the environment for potentially complete exposure pathways. The groundwater results were compared to the RWQCB's ESL concentrations where groundwater is not a current or potential drinking water source (RWQCB, 2008) and State of California drinking water Maximum Contaminant Levels (MCLs). The soil and groundwater ESLs discussed above are presented in Tables B of the referenced document.

4.2.1 Soil Sample Results

In summary, the maximum concentrations for the verification sidewall soil samples were as follows:

- TPHd at 7.0 mg/kg in sample USTSW-SE;
- TPHmo at 56 mg/kg in sample USTSW-SE;
- Cadmium at 3.8 mg/kg in sample USTSW-NW;
- Chromium at 49 mg/kg in each sidewall sample;
- Lead at 9.2 mg/kg in sample USTSW-NW;
- Nickel at 63 mg/kg in sample USTSW-SE; and
- Zinc at 820 mg/kg in sample USTSW-NW.

As indicated on Table 2 and Plate 3, only the concentration of zinc in sample USTSW-NW exceeds the commercial/industrial ESL. TPHg, BTEX, MTBE, and other fuel oxygenates were not detected at or above the respective laboratory reporting limits in the verification soil samples.

4.2.2 Groundwater Sample Results

As indicated on Table 3 and Plate 3, the only constituents detected in the verification groundwater sample were TPHg (at 68 μg/L), nickel (at 9.4 μg/L), and zinc (at 140 μg/L). The concentration of nickel and zinc exceed the groundwater ESLs of 8.2 μg/L and 81 μg/L, respectively. However, the levels of nickel and zinc did not exceed the State of California drinking water MCLs of 100 μg/L and 5,000 μg/L, respectively.

4.3 Excavation Backfilling Procedures

To assess whether the soil excavated during the UST removal was acceptable to use for backfilling the excavation, a composite stockpile soil sample was collected and analyzed for the same constituents as the verification soil samples discussed above (TPHg, TPHd, TPHmo, BTEX, MTBE and fuel oxygenates, and LUFT metals). The laboratory reports and chain-of-custody forms for the verification samples are included in Appendix B. LUFT metals, TPHd and TPHmo were detected in the soil stockpile sample, but at concentrations below the respective commercial/industrial ESLs.

Prior to backfilling the excavation, the stockpiled soil was evaluated by a geotechnical engineer for geotechnical suitability. Based on the analytical and compaction curve results, the stockpile soil was deemed acceptable to use for backfilling the excavation. The compaction test results, which provide the maximum dry density and optimum moisture content for the stockpiled soil, are included in Appendix D.

The excavation was backfilled by Marcor on May 22, 2009 under the oversight of PES. Marcor's geotechnical subcontractor, ENGEO Incorporated (ENGEO), performed the compaction curve testing and provided compaction testing services during backfilling of the excavation. ENGEO field compaction testing results are included in Appendix D.

Prior to backfilling the excavation, loose, saturated soil on at the bottom of the excavation was removed from the excavation and blended with the stockpiled soil. Following the removal of the loose, saturated material, the excavation was backfilled with 3/4-inch crushed drain rock to a depth of approximately 3 feet bgs. The drain rock was compacted using the backhoe's bucket as it was placed in the excavation. A geotextile fabric was placed on top of the crushed drain rock prior to backfilling the remainder of the excavation. The remainder of the excavation was backfilled with the stockpiled soil in 12-inch loose lifts, which were compacted with a sheep's-foot rolled attached to the backhoe. As indicated above, ENGEO conducted field compaction testing to confirm that the excavation was compacted to a relative compaction

of above 90 percent of maximum dry density. Final field compaction testing results ranged from 91 to 97 percent of the relative maximum dry density (Appendix D).

4.4 Underground Storage Tank and Liquid Disposal

The UST was transported off-Site by Marcor on May 20, 2009 and disposed at Ecology Control Industries in Richmond, California. A copy of the disposal related information is included in Appendix E.

The 875 gallons of liquid content removed from the UST by Evergreen Environmental Services (Evergreen) on May 19, 2009 was transported off-Site and recycled as non-hazardous waste to one of their recycling facilities. A certificate of recycling issued by Evergreen is presented in Appendix E. The two drums of groundwater pumped from the UST on May 20, 2009 were transported off-Site as non-hazardous waste by Environmental Logistics, Inc. on June 1, 2009 for recycling at Crosby & Overton, Inc.'s Long Beach, California facility. Information related to off-Site recycling of the liquid waste is included in Appendix E.

5.0 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

This report provides background information and documents the permitting and field activities associated investigation and removal of one 1,100-gallon UST from the Site between April 8 and May 22, 2009. The UST was removed on May 20, 2009, under permit and oversight by the Oakland Fire Department. Upon visual inspection, the UST was discovered to contain several holes up to 1-inch diameter. Prior to removal, 875 gallons of water with relatively low concentrations of TPHd and TPHmo was pumped from the UST and transported off-Site for recycling. Groundwater accumulated in the UST prior to removal and the groundwater was transferred to two 55-gallon drums for subsequent off-Site recycling.

Groundwater was present at the bottom of the UST excavation. Verification soil samples were collected and analyzed from capillary fringe soil at each end of the UST. The soil samples were analyzed for TPHg, TPHd, TPHmo, BTEX, MTBE and other fuel oxygenates, and LUFT metals. TPHg, BTEX, and MTBE and other fuel oxygenates were not detected at or above the respective laboratory reporting limits. Low levels of TPHd, TPHmo, cadmium, chromium, lead and nickel were detected in the soil samples. With the exception of zinc at a concentration of 820 mg/kg in sample USTSW-NW, the laboratory analytical results for verification soil samples collected from the sidewalls of the UST were below the RWQCB's ESL for shallow soil in a commercial/industrial setting where groundwater is not a current or potential drinking water source (see Plate 3). However, the concentration of zinc in sample USTSW-NW is below the industrial/commercial gross contamination ceiling level of 2,500 mg/kg for zinc. Gross contamination ceiling levels for soil and groundwater are provided in the RWQCB's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008). The results of the verification soil sample analyses is

consistent with the results of previous laboratory analysis conducted on soil samples collected from borings B4 and B5, which were advanced near and downgradient from the UST during PIERS January 2008 investigation (see Plate 2 for locations and Appendix A for analytical results).

A groundwater sample was collected from the UST excavation. The sample was analyzed for TPHg, TPHd, TPHmo, BTEX, MTBE and other fuel oxygenates, and LUFT metals. The only constituents detected in the groundwater sample were TPHg (at 68 µg/L), nickel (at 9.4 µg/L), and zinc (at 140 µg/L). The concentration of TPHg is below the ESL of 210 µg/L. The concentrations of nickel and zinc exceed the respective groundwater ESLs (where groundwater is not a current or potential source of drinking water). However, the concentrations of nickel and zinc are below the State of California drinking water MCLs of 100 µg/L for nickel and 5,000 µg/L for zinc. The groundwater ESLs are based on an assumed potential discharge into a freshwater, marine or estuary surface water system. The Site is approximately ½-mile northeast of San Francisco Bay, the nearest surface water body. Based on the distance from the Site to the San Francisco Bay discharge of underlying groundwater into a surface water body is not likely and therefore the use of groundwater ESLs is not appropriate.

Although the UST was observed to have holes in the metal it appears rainwater collected in the tank and impact to the surrounding soil and underlying groundwater is minimal. Based on the following information it appears that soil and groundwater in the vicinity of the UST has not been adversely impacted: (1) laboratory analytical results for soil and groundwater verification samples collected from the UST excavation; (2) laboratory analytical results for the composite soil sample collected from the stockpiled soil removed from the UST excavation; (3) observations and measurements performed during UST removal activities; and (4) laboratory analytical results for soil and groundwater samples collected from the borings advanced near the UST during PIERS January 2008 investigation. In accordance with RWQCB and State Water Resources Control Board guidance regarding cleanup at petroleum hydrocarbon sites and in consideration of the above discussion, PES considers the Site to be eligible for "No Further Action" status. The relatively low levels of zinc in soil and TPHg, nickel and zinc in groundwater do not present a significant threat to human health or the environment, and does 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, requests that the Oakland Fire Department issue a letter of "No Further Action" with respect to the UST case.

6.0 REFERENCES

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PES Environmental, Inc. (PES), 2008. *Subsurface Investigation Report, 4600-4700 Coliseum Way, Oakland, California*. September 18.

PIERS Environmental Services, Inc. (PIERS, 2008). *Limited Phase II Site Investigation Report of 4600-4700 Coliseum Way, Oakland, California*. January 23.

TABLES

Table 1
Summary of Analytical Results of UST Contents
4600-4700 Coliseum Way
Richmond, California

Sample Designation	Sample Type	Date Collected	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)
Tank Fluid	Liquid	4/10/2009	ND(50)	**1,500 Y**	**820**	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	All ND

Notes:

UST = Underground Storage Tank
TPHg = Total petroleum hydrocarbons quantified as gasoline
TPHd = Total petroleum hydrocarbons quantified as diesel (with silica gel cleanup)
TPHmo = Total petroleum hydrocarbons quantified as motor oil (with silica gel cleanup)
MTBE = Methyl-tert-butyl ether
µg/L = Micrograms per liter
ND(50) = Compound not detected at or above the indicated laboratory reporting limit
Y = Sample exhibits chromatographic pattern which does not resemble standard

Table 2
Summary of UST Excavation Sidewall Soil Sample Analytical Results
4600-4700 Coliseum Way
Richmond, California

Excavation Area	Sample Designation			Organic Analyses										Inorganic Analyses				
				Petroleum Hydrocarbons			Volatile Organic Compounds											
		Sample Depth (feet bgs)	Date Collected	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylenes (mg/kg)	MTBE (mg/kg)	Other Fuel Oxygenates (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
North West Sidewall	USTSW-NW	4.5	5/20/2009	ND(0.20)	**3.3 Y**	**27**	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	All ND	**3.8**	**49**	**9.2**	**53**	**820**
South East Sidewall	USTSW-SE	4.5	5/20/2009	ND(0.20)	**7.0 Y**	**56**	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	All ND	**0.32**	**49**	**9.0**	**63**	**43**
Shallow (<3 meters bgs) Soil ESL[(1)]				**180**	**180**	**2,500**	**0.27**	**9.3**	**4.7**	**11**	**11**	**8.4**	**N/A**	**7.4**	**750**	**750**	**150**	**600**

Notes:

UST = Underground Storage Tank
TPHg = Total petroleum hydrocarbons quantified as gasoline
TPHd = Total petroleum hydrocarbons quantified as diesel (with silica gel cleanup)
TPHmo = Total petroleum hydrocarbons quantified as motor oil (with silica gel cleanup)
MTBE = Methyl-tert-butyl ether
mg/kg = Milligrams per kilogram
ND(4.3) = Compound not detected at or above the indicated laboratory reporting limit
Y = Sample exhibits chromatographic pattern which does not resemble standard
N/A = Not applicable
bgs = Below ground surface
(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.
- Exceeds the commercial/industrial soil ESL

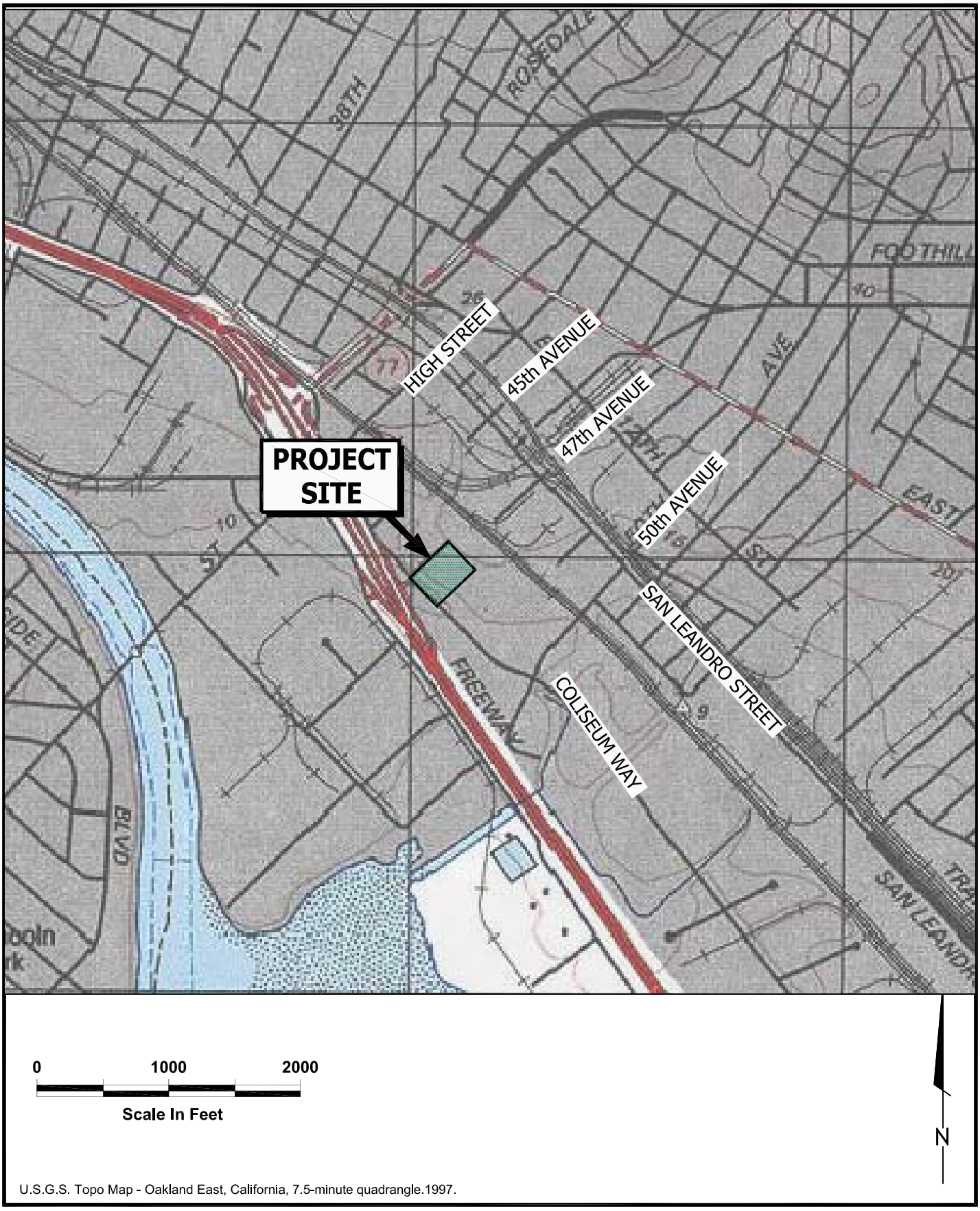
Table 3
Summary of UST Excavation Groundwater Sample Analytical Results
4600-4700 Coliseum Way
Richmond, California

Sample Designation	Date Collected	Organic Analyses										Inorganic Analyses				
		Petroleum Hydrocarbons			Volatile Organic Compounds											
		TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylenes (µg/L)	MTBE (µg/L)	Other Fuel Oxygenates (mg/kg)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
UST-GW1	5/20/2009	**68 Y**	ND(50)	ND(300)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	All ND	ND(5.0)	ND(5.0)	ND(5.0)	**9.4**	**140**
Groundwater ESL [(1)]		**210**	**210**	**210**	**46**	**130**	**43**	**100**	**100**	**1,800**	**N/A**	**0.25**	**180**	**2.5**	**8.2**	**81**
MCLs [(2)]		**NE**	**NE**	**NE**	**1.0**	**150**	**300**	**1,750**	**1,750**	**13**	**N/A**	**5.0**	**50**	**15**	**100**	**5,000**

Notes:

TPHg = Total petroleum hydrocarbons quantified as gasoline
TPHd = Total petroleum hydrocarbons quantified as diesel with silica gel cleanup (with silica gel cleanup)
TPHmo = Total petroleum hydrocarbons quantified as motor oil with silica gel cleanup (with silica gel cleanup)
MTBE = Methyl-tert-butyl ether
NE = Not established
µg/L = Micrograms per liter
ND(50) = Compound not detected at or above the indicated laboratory reporting limit
Y = Sample exhibits chromatographic pattern which does not resemble standard
(1) = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) where groundwater is not a current or potential drinking water resource.
(2) = State of California drinking water Maximum Contaminant Levels (MCLs)
- Exceeds groundwater ESL and/or MCL

ILLUSTRATIONS



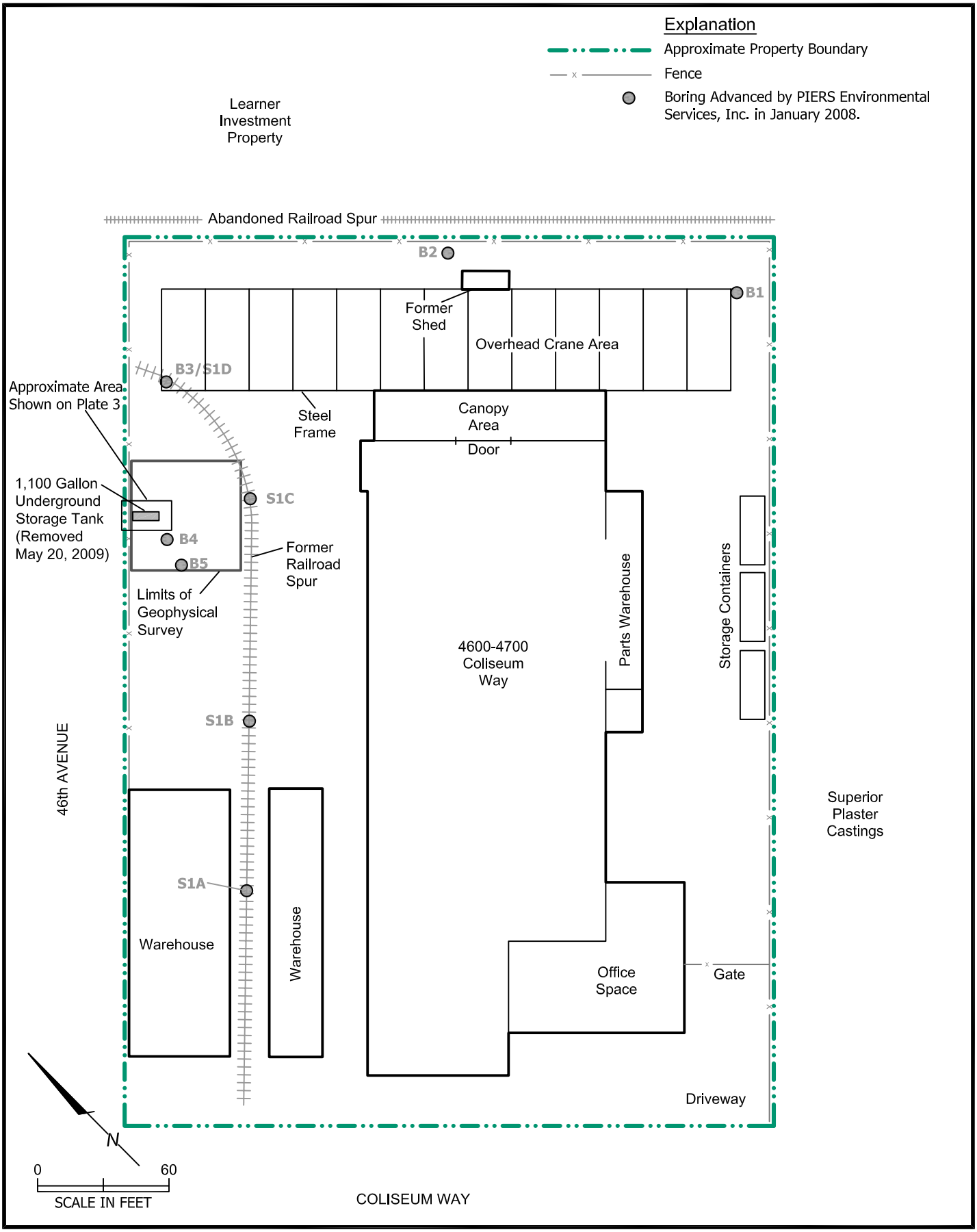
U.S.G.S. Topo Map - Oakland East, California, 7.5-minute quadrangle.1997.

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
UST Removal Report
4600-4700 Coliseum Way
Oakland, California

PLATE
1

1148.001.02.003	114800102003_UST	GDT	7/09
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
UST Removal Report
4600-4700 Coliseum Way
Oakland, California

PLATE
2

1148.001.02.003	114800102003_UST	GDT	7/09
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

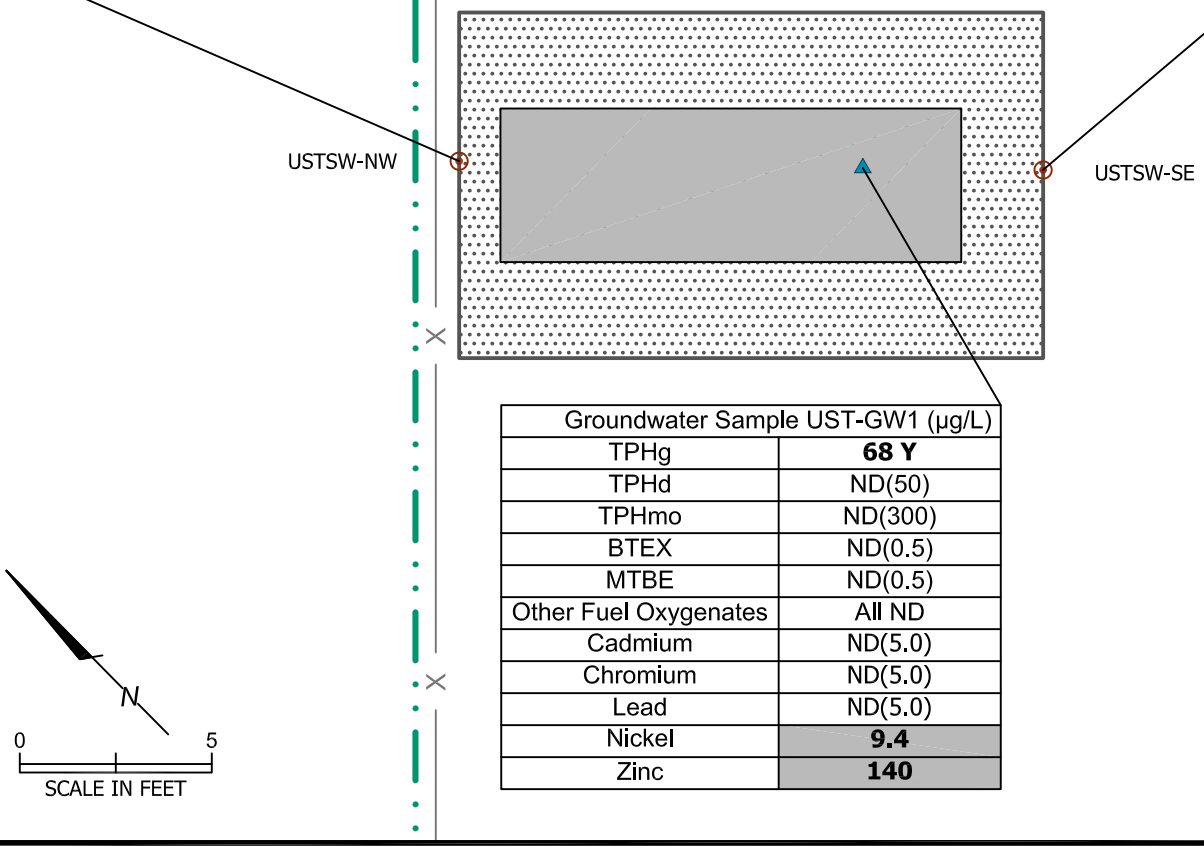
Explanation

- Approximate Property Boundary
- Fence
- Sidewall Sample
- Groundwater Sample
- Extent of Excavation
- Former Underground Storage Tank

TPHg = Total petroleum hydrocarbons quantified as gasoline
TPHd = Total petroleum hydrocarbons quantified as diesel
TPHmo = Total petroleum hydrocarbons quantified as motor oil
BTEX = B: Benzene; T: Toluene; E: Ethylbenzene; X: Xylenes
MTBE = Methyl-tert-butyl ether
mg/kg = Milligrams per kilogram
µg/L = Micrograms per liter
ND(4.3) = Compound not detected at or above the indicated laboratory reporting limit
Y = Sample exhibits chromatographic pattern which does not resemble standard
bgs = Below ground surface
Results exceeding San Francisco Bay Regional Water Quality Control Board (RWQCB) Enviromental Screening Levels (ESLs) are shaded

Sidewall Soil Sample USTSW-NW (mg/kg)	
Depth (Feet bgs)	4.5
TPHg	ND(0.20)
TPHd	**3.3 Y**
TPHmo	**27**
BTEX	ND(4.3)
MTBE	ND(4.3)
Other Fuel Oxygenates	All ND
Cadmium	**3.8**
Chromium	**49**
Lead	**9.2**
Nickel	**53**
Zinc	**820**

Sidewall Soil Sample USTSW-SE (mg/kg)	
Depth (Feet bgs)	4.5
TPHg	ND(0.20)
TPHd	**7.0 Y**
TPHmo	**56**
BTEX	ND(4.1)
MTBE	ND(4.1)
Other Fuel Oxygenates	All ND
Cadmium	**0.32**
Chromium	**49**
Lead	**9.0**
Nickel	**63**
Zinc	**43**



Groundwater Sample UST-GW1 (µg/L)	
TPHg	**68 Y**
TPHd	ND(50)
TPHmo	ND(300)
BTEX	ND(0.5)
MTBE	ND(0.5)
Other Fuel Oxygenates	All ND
Cadmium	ND(5.0)
Chromium	ND(5.0)
Lead	ND(5.0)
Nickel	**9.4**
Zinc	**140**

PES Environmental, Inc.
Engineering & Environmental Services

Limits of Excavation, Sample Locations and Analytical Results
UST Removal Report
4600-4700 Coliseum Way
Oakland, California

PLATE
3

1148.001.02.003	114800102003_UST	GDT	7/09
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

PIERS JANUARY 2008 LIMITED PHASE II SITE INVESTIGATION

Limited Phase II
Site Investigation Report
of
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

Prepared For:
Mr. Samuel Leung
United Commercial Bank
900 Webster Street
Oakland, CA 94607

Prepared By:
PIERS Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128

January 2008
PIERS Project Number: 7339

January 23, 2008

Mr. Samuel Leung
United Commercial Bank
900 Webster Street
Oakland, CA 94607

RE: **Limited Phase II Site Investigation Report**
4600-4700 Coliseum Way, Oakland, CA

Dear Mr. Leung:

At your request, PIERS Environmental, Inc. (PIERS) has prepared this report of "Limited Phase II Site Investigation Report" for the above-referenced site (hereinafter referred to as "the Property"). The work was performed to investigate whether the subsurface soils and groundwater at the Property have been impacted by the prior and current use of the Property, and to investigate the potential of impacts to the Property from off-site sources.

SITE DESCRIPTION AND BACKGROUND

The Property is located on the northeastern side of Coliseum Way, which is a frontage road along the eastern side of the Interstate I-880 freeway in Oakland, California. A Property Site Plan is attached to this report as Figure 2.

PIERS' previous work for this Property was performed in December 2007, when PIERS reviewed previous Phase I Environmental Site Assessments (ESAs) that were completed in October and November of 2007 by two other environmental firms, AEI Consultants and ERAS. PIERS review of these ESAs was summarized in a letter dated December 7, 2007. The scope of work completed for this investigation was based on recommendations from the October 2007 ESA completed by AEI Consultants.

THIS INVESTIGATION

On January 7, 2008, eight exploratory soil borings, designated as B1 through B5 and S1A through S1C on the attached Figure 2, were completed at the Property (borings S1D and B3 were combined).

Prior to drilling, a health and safety plan was prepared, and the site was marked and Underground Service Alert was notified. Also, a drilling permit was obtained from Alameda County Public Works.

The exploratory soil borings were completed using a Geoprobe direct push drill rig provided by Vironex, Inc. of Pacheco, California, a state-licensed driller. Soil borings B1 through B3 were located as close as was possible to the northeastern perimeter of the Property to investigate potential off-site sources that could cause contamination to migrate in groundwater beneath the Property. Borings B4 and B5 were located at and adjacent to the location of a former gasoline tank shown on historical Sanborn Maps. These soil borings were extended to approximately ten feet below grade. Groundwater entered the boreholes and rose to approximately four feet below grade, except in B3, where the soil boring was extended to approximately 15 feet below grade and several feet of water eventually collected in the borehole.

Four shallow soil borings had been proposed along a former railroad spur. Soil borings S1A through S1C were collected along this feature. A soil sample designated as S1D was collected at soil boring B3 to complete a four-part composite soil sample.

At all of the soil borings except B3, the soils were continuously cored to approximately ten feet below grade, the rods retracted, and slotted PVC casing was placed in the borehole. The groundwater samples were retrieved by using small diameter vinyl tubing fitted with a chuck ball tip to surge the water to the surface, or a bailer. The groundwater samples were decanted into VOAs and an amber liter, labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

At B3, the borehole collapsed upon retrieval of the rods, and no groundwater was encountered above approximately eight feet below grade. A hydropunch tool was then used to collect a groundwater sample. During the first attempt, the rods were extended to approximately 13 feet below grade and the hydropunch screen was exposed over a four-foot interval; however, sufficient water to allow for sample collection did not accumulate over a half-hour time period. The rods were retracted and then the hydropunch was extended to approximately 15 feet below grade and the water sample was successfully collected.

At soil borings B1 through B3, shallow soil samples from the unsaturated zone were collected but placed on hold pending the results of the water analyses. At B4, one soil sample that would correspond to the likely bottom of an underground storage tank (UST) was collected at approximately 9.5 feet below grade. At nearby soil boring B5, one soil sample that would correspond to the capillary fringe zone was retained from approximately 3.5 feet below grade. At S1A through S1D, soil samples from approximately 0.5 to 1.5 feet below grade were retained (S1D was collected from soil boring B3).

The subsurface conditions beneath approximately 2.5 feet consisted predominantly of dark brown to olive brown silt (ML) and sandy gravelly silt (ML). Fill material, also consisting of sandy gravelly silt, was present at the surface to approximately one to two feet below grade. No obvious odors or soil staining were observed during drilling.

The sections of the plastic liners containing soil samples to be retained were first cut with a hacksaw. The ends of the liner containing the soil samples were covered with Teflon tape and caps and then the soil samples were labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

The groundwater samples were retrieved by using small diameter vinyl tubing fitted with a chuck ball tip to surge the water to the surface, or a bailer. The groundwater samples were decanted into VOAs and an amber liter, labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

Soil cuttings from the soil boring were stored on site in a 5-gallon pail for proper disposal. Upon completion of groundwater sampling, the soil borings were filled with neat cement grout using the PVC casing as a tremie pipe. Ms. Vicky Hamlin of Alameda County Public Works witnessed the sealing of some of the soil borings.

ANALYTICAL RESULTS

The soil and groundwater samples were transported on the same day in an ice chest under chain of custody procedures to McCampbell Analytical Laboratory in Pittsburg, California. The soil samples from the four shallow soil borings along the railroad spur were composited into one sample by the laboratory. All of the soil and water samples were analyzed for volatile organic compounds (VOC) by EPA Method 8260B. The groundwater samples from the three soil borings along the northeastern perimeter of the Property and the composite soil sample were also analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and as motor oil by EPA Method 8015. The soil and groundwater samples from the two soil borings at the former fuel tank location were also analyzed for TPH as gasoline by EPA Method 8015. The composite soil sample was also analyzed for polychlorinated biphenols (PCBs) by EPA Method 8082A.

The four-part composite soil sample yielded non-detectable results for VOCs, and for PCBs. TPH as diesel and motor oil were detected at concentrations of 9.9 parts per million (ppm) and 84 ppm, respectively.

Concentrations of VOCs and TPH as gasoline were not detected in the soil samples collected at the former fuel tank location (B4 d9.5' and B5 d 3.5').

Concentrations of TPH as gasoline and VOCs were non-detectable in the water samples from B4 and B5, at the former fuel tank location, except for toluene, which was detected at concentrations of 1.3 parts per billion (ppb) and 0.70 ppb, respectively.

In the water sample from B1, concentrations of 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,1,2-trichloroethane (1,1,2-TCA), and 1,1,1-TCA were detected at 310 ppb, 38 ppb, 17 ppb, and 1,200 ppb, respectively. In B2, concentrations of 1,1-DCA and 1,1-DCE were detected at 9.2 ppb and 18 ppb, respectively. In B3, concentrations of 1,1-DCA, trichloroethene (TCE), 1,2-DCA, and cis-1,2-DCE were detected at 1.5 ppb, 1.7 ppb, 3.3 ppb and 1.0 ppb, respectively. Toluene and di-isopropyl ether (DIPE, a fuel oxygenate) were also detected at concentrations of 1.3 ppb and 2.6 ppb, respectively. Concentrations of TPH as diesel and as motor oil were not detected in B1 or B3. TPH as diesel was detected in B2 at a concentration of 95 ppb. Laboratory footnotes indicate that a portion of the concentration reported as diesel overlapped with gasoline.

Based on the groundwater sample results, the three shallow soil samples from B1 through B3 (B1d2.5', B2d0.5', and B3d4.5'), which had been put on hold in the laboratory were then analyzed for VOCs by EPA Method 8260. The only analyte detected in the soil samples was 1,1,1-TCA, which was detected in B1d2.5' at a concentration of 0.061 ppm.

The analytical results are summarized on Table 1. Copies of the laboratory analytical data sheets are attached to this report.

CONCLUSIONS AND RECOMMENDATIONS

"Environmental Screening Levels" (ESLs) for concentrations of contaminants in soils and groundwater have been established by the Regional Water Quality Control Board (RWQCB). These levels are used to determine the relative risks to human health and the environment. Generally the presence of a chemical in soil or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health or the environment. The ESLs for the compounds detected in groundwater are shown on Table 1.

The concentrations of detected VOCs and hydrocarbons in groundwater are summarized on Table 1. Concentrations of VOCs detected above the ESLs are shown on Figure 2.

Borings B1 through B3 were located as close as was possible to the northeastern perimeter of the Property to investigate potential off-site sources that could cause contamination in groundwater to migrate beneath the Property. VOCs were detected in groundwater at elevated concentrations. The only analyte detected in the soil samples was 1,1,1-TCA, which was detected in B1d2.5' at a concentration of 0.061 ppm. The highest concentration of any analyte in groundwater was 1,1,1-TCA at a concentration of 1,200 ppb in B1. The occurrence in groundwater (1,200 ppb) is significantly above the ESL of 200 ppb. The occurrence in soil at 2.5 feet (0.061 ppm) is below the residential and commercial ESL of 7.8 ppm.

The highest concentration of 1,1,1-TCA was found in B1 at the northeastern corner of the Property and the lowest concentration was found in B3, which was the farthest boring away from B1. The only occurrence of 1,1,1-TCA in soil was found in B1, which had the highest groundwater concentrations. **Because of the shallow occurrence of groundwater (approximately four feet below grade on the drilling date), it is possible that the 1,1,1-TCA in soil at B1 is from migration of contaminants in groundwater from an up-gradient source.**

During PIERS review of the two previous Phase I reports by AEI and ERAS, it was determined that, "Adjacent parcels to the north, northeast, east, and southeast are currently under remediation for the release of chlorinated solvents, petroleum hydrocarbons, polychlorinated biphenyls, volatile organic compounds and metals. The sites have been grouped together as a common source of historical releases that have resulted in a commingled plume. The adjacent sites are:

- Former Learner property at 768 – 46th Ave to the north
- Former AAA Equipment Company at 745 – 50th Avenue to the northeast
- PG&E at 4930 Coliseum Way to the east
- Former Superior Plaster Casting at 4800 Coliseum Way to the southeast
- Pacific Galvanizing at 715 – 46th Avenue, adjacent to the northwest across 46th Avenue, and
- East Bay Clarklift at 4701 Coliseum Way, adjacent to the southwest across Coliseum Way."

The available data reviewed by PIERS to date have not revealed an identified up-gradient source of the 1,1,1-TCA. To make that determination (if possible), additional file reviews, particularly of the up-gradient 768-46th Street site, should be conducted. If data indicating an up-gradient source cannot be found, additional delineation (additional soil borings) should be completed.

Borings B4 and B5 were located at and adjacent to the location of a former gasoline tank shown on historical Sanborn Maps, and soil and groundwater samples were collected. Very low concentrations of toluene below the ESLs were detected at 1.3 ppb and 0.70 ppb, respectively. Hydrocarbons and other VOCs were not detected in the soil samples. Based on these findings, the Property does not appear to have been significantly impacted by the former gasoline tank at this location.

Four shallow soil samples were completed along a former railroad spur and composited into one sample by the laboratory. The four-part composite soil sample yielded non-detectable results for VOCs and for PCBs. TPH as diesel and motor oil were detected at concentrations of 9.9 ppm and 84 ppm, respectively, below the ESL for heavy hydrocarbons in shallow soils (1,000 ppm for commercial use).

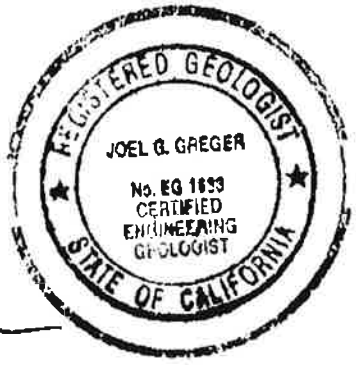
PIERS recommends that because contaminants in on-site soil and groundwater were identified during this investigation, this report should be submitted to the Alameda County Health Care Services Agency.

LIMITATIONS

The observations and conclusions presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The opinions presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions beneath the Property at specific locations. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

Should you have any questions regarding this report, please do not hesitate to call me at (510) 593-5382.

Sincerely,
PIERS Environmental Services, Inc.



Joel G. Greger
Senior Project Manager
CEG # EG1633, REA # 07079

Kay Pannell
Chief Operations Officer
REP #5800, REA-II #20236

Attachments: Figure 2
Table 1
Laboratory Analytical Data Sheets

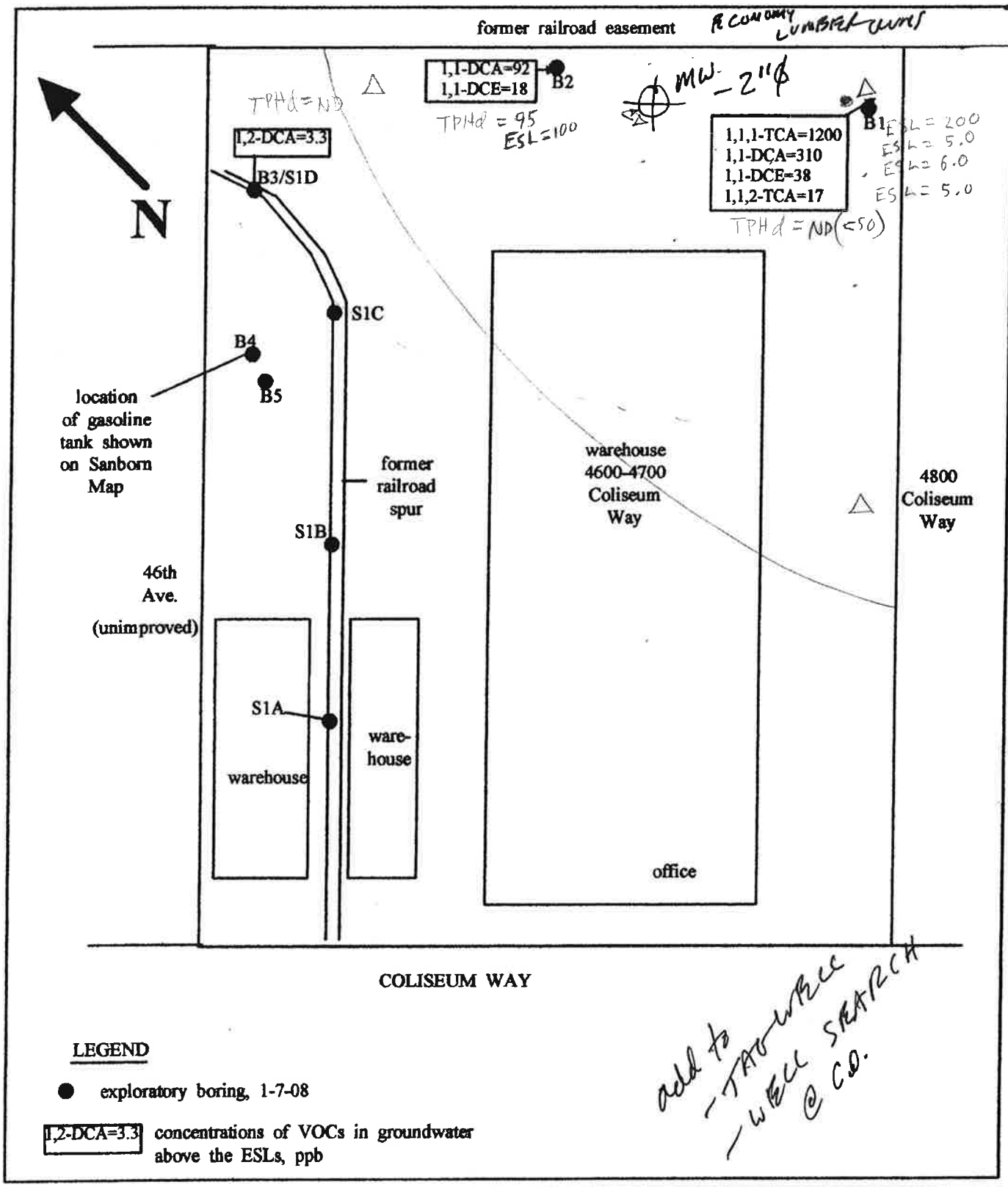


FIGURE 2
SITE PLAN - LOCATIONS OF EXPLORATORY BORINGS

4600-4700 COLISEUM WAY
OAKLAND, CA

JANUARY 2008
SCALE: 1" = 60'

PIERS ENVIRONMENTAL SERVICES, INC. 1330 BASCOM AVE. SUITE F SAN JOSE, CA 95128
PHONE: 408-559-1248 FAX: 408-559-1224 WEB: PIERSES.COM

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
4700 Coliseum Way, Oakland, CA
Samples collected on 1-7-08.

Sample No.	TPH-gas (ppb)	TPH-diesel (ppb)	TPH-motor oil	1,1-DCA (ppb)	1,1-DCE (ppb)	1,1,2-TCA (ppb)	1,1,1-TCA (ppb)	TCE (ppb)	1,2-DCA (ppb)	cis-1,2-DCE (ppb)	Toluene (ppb)	DIPE (ppb)
B1 water	NA	<50	<250	**310**	**38**	**17**	**1200***	<12	<12	<12	<12	<12
B2 water	NA	95	<250	**9.2**	**18**	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5
B3 water	NA	<50	<250	1.5	<0.5	<0.5	<0.5	1.7	**3.3**	1.0	1.3	2.6
B4 water	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
B5 water	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.70	<0.5
ESL	100/5000	100/2500	100/2500	5.2/100	6.0/6300	5.0/350	200/200	5.0/530	0.5/200	6.0/6200	40/400	

EXPLANATION:

ppb = parts per billion DCA = dichloroethane, DCE = dichloroethene, TCA = Trichloroethane, TCE = Trichloroethene, DIPE = Diisopropyl ether.
NA = not analyzed. TPH = Total Petroleum Hydrocarbons.
* 0.061 ppm of 1,1,1-TCA was detect ted in soil from B1 at 2.5'.
ESL - Environmental Screening Level - groundwater is/is not considered a resource, Tables A/B.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Reported: 01/14/08
	Client P.O.:	Date Completed: 01/14/08

WorkOrder: 0801147

January 14, 2008

Dear Joel:

Enclosed within are:

1) The results of the **8** analyzed samples from your project: **Coliseum Way,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.
1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

0801147

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Joel G[illegible] Bill To: PIERS
Company: PIERS Environmental
1330 S Bascom Ave, S.J. [illegible]
E-Mail: [illegible]
Tele: (510) [illegible] Fax: (510) [illegible]
Project #: Project Name: Coliseum Way
Project Location: [illegible] Coliseum Way, Oakland
Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
B1 water		11.08	[illegible] AM	4	[illegible]	X					X	X		
B2 water		↓	2:51 PM		↓	X					X	X		
B3 water			12:15 PM	3/4	V/L	X					X	X		
B4 water			[illegible] AM	4	V/L	X					X	X		
B5 water			10:51 AM	4	↓	X					X	X		
Comp B1 A-D			9:20 AM	4	[illegible]		X				X			
B1 @ 2.5'			8:01 AM	1			X				X			
B2 @ 2.5'			8:41 AM	1			X				X			
B3 @ 4.5			9:40 AM	1			X				X			
B4 @ 14.5			10:02 AM	1			X				X			
B5 @ 13.5		↓	10:37 AM	1	↓		X				X			

Analysis Request

SAMPLE ID	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + motor oil [illegible]	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: PCBs	Other	Other	Comments
B1 water		X									X									
B2 water		X									X									
B3 water		X									X									
B4 water	X										X									
B5 water	X										X									
Comp B1 A-D		X									X						X			
B1 @ 2.5'		[crossed out]									[crossed out]									hold
B2 @ 2.5'		[crossed out]									[crossed out]									hold
B3 @ 4.5		[crossed out]									[crossed out]									hold
B4 @ 14.5	X										X									
B5 @ 13.5	X										X									

Comments: Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
[signature]	1/7/08	2:45 PM	[signature]
~~Relinquished By:~~	1/7/08	9:45	[signature]
Relinquished By:			

ICE/t° 6.0°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION	✓		pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0801147 **ClientID: PESJ**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128

Email: piers@pierses.com
TEL: (408) 559-1248 FAX: (408) 559-1224
ProjectNo: Coliseum Way
PO:

Bill to:
Jennifer
Piers Environmental
1330 S. Bascum Avenue, Ste. F
San Jose, CA 95128
jennifer@pierses.com

Requested TAT: 5 days

Date Received: **01/07/2008**
Date Printed: **01/08/2008**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0801147-001	B1 Water	Water	1/7/2008 8:10:00	☐			B			A		A				
0801147-002	B2 Water	Water	1/7/2008 8:51:00	☐			B					A				
0801147-003	B3 Water	Water	1/7/2008 12:15:00	☐			B					A				
0801147-004	B4 Water	Water	1/7/2008 10:17:00	☐			B		A							
0801147-005	B5 Water	Water	1/7/2008 10:51:00	☐			B		A							
0801147-006	Comp S1A-D	Soil	1/7/2008 9:29:00	☐	A	A					A					
0801147-010	B4d9.5'	Soil	1/7/2008 10:02:00	☐		A		A								
0801147-011	B5d3.5'	Soil	1/7/2008 10:37:00	☐		A		A								

Test Legend:

1	8082A_PCB_S	2	8260B_S	3	8260B_W	4	G-MBTEX_S	5	G-MBTEX_W
6	PREDF REPORT	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Piers Environmental**
Date and Time Received: **1/7/2008 7:16:06 PM**

Project Name: **Coliseum Way**
Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0801147** Matrix Soil/Water
Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/09/08

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C Analytical Method: SW8082A Work Order: 0801147

					Reporting Limit for DF =1	
Lab ID	0801147-006A					
Client ID	Comp S1A-D					
Matrix	S					
DF	1				S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND				0.025	NA
Aroclor1221	ND				0.025	NA
Aroclor1232	ND				0.025	NA
Aroclor1242	ND				0.025	NA
Aroclor1248	ND				0.025	NA
Aroclor1254	ND				0.025	NA
Aroclor1260	ND				0.025	NA
PCBs, total	ND				0.025	NA
Surrogate Recoveries (%)						
%SS:	85					
Comments						

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-006A
Client ID	Comp S1A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	92	%SS2:	101
%SS3:	103		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-010A
Client ID	B4d9.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	92	%SS2:	101
%SS3:	105		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-011A
Client ID	B5d3.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	91	%SS2:	101
%SS3:	104		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/11/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/11/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-001B
Client ID	B1 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<250	25	10	Acrolein (Propenal)	ND<120	25	5.0
Acrylonitrile	ND<50	25	2.0	tert-Amyl methyl ether (TAME)	ND<12	25	0.5
Benzene	ND<12	25	0.5	Bromobenzene	ND<12	25	0.5
Bromochloromethane	ND<12	25	0.5	Bromodichloromethane	ND<12	25	0.5
Bromoform	ND<12	25	0.5	Bromomethane	ND<12	25	0.5
2-Butanone (MEK)	ND<50	25	2.0	t-Butyl alcohol (TBA)	ND<50	25	2.0
n-Butyl benzene	ND<12	25	0.5	sec-Butyl benzene	ND<12	25	0.5
tert-Butyl benzene	ND<12	25	0.5	Carbon Tetrachloride	ND<12	25	0.5
Carbon Disulfide	ND<12	25	0.5	Chlorobenzene	ND<12	25	0.5
Chloroethane	ND<12	25	0.5	2-Chloroethyl Vinyl Ether	ND<25	25	1.0
Chloroform	ND<12	25	0.5	Chloromethane	ND<12	25	0.5
2-Chlorotoluene	ND<12	25	0.5	4-Chlorotoluene	ND<12	25	0.5
Dibromochloromethane	ND<12	25	0.5	1,2-Dibromo-3-chloropropane	ND<5.0	25	0.2
1,2-Dibromoethane (EDB)	ND<12	25	0.5	Dibromomethane	ND<12	25	0.5
1,2-Dichlorobenzene	ND<12	25	0.5	1,3-Dichlorobenzene	ND<12	25	0.5
1,4-Dichlorobenzene	ND<12	25	0.5	Dichlorodifluoromethane	ND<12	25	0.5
1,1-Dichloroethane	310	25	0.5	1,2-Dichloroethane (1,2-DCA)	ND<12	25	0.5
1,1-Dichloroethene	38	25	0.5	cis-1,2-Dichloroethene	ND<12	25	0.5
trans-1,2-Dichloroethene	ND<12	25	0.5	1,2-Dichloropropane	ND<12	25	0.5
1,3-Dichloropropane	ND<12	25	0.5	2,2-Dichloropropane	ND<12	25	0.5
1,1-Dichloropropene	ND<12	25	0.5	cis-1,3-Dichloropropene	ND<12	25	0.5
trans-1,3-Dichloropropene	ND<12	25	0.5	Diisopropyl ether (DIPE)	ND<12	25	0.5
Ethylbenzene	ND<12	25	0.5	Ethyl tert-butyl ether (ETBE)	ND<12	25	0.5
Freon 113	ND<250	25	10	Hexachlorobutadiene	ND<12	25	0.5
Hexachloroethane	ND<12	25	0.5	2-Hexanone	ND<12	25	0.5
Isopropylbenzene	ND<12	25	0.5	4-Isopropyl toluene	ND<12	25	0.5
Methyl-t-butyl ether (MTBE)	ND<12	25	0.5	Methylene chloride	ND<12	25	0.5
4-Methyl-2-pentanone (MIBK)	ND<12	25	0.5	Naphthalene	ND<12	25	0.5
Nitrobenzene	ND<250	25	10	n-Propyl benzene	ND<12	25	0.5
Styrene	ND<12	25	0.5	1,1,1,2-Tetrachloroethane	ND<12	25	0.5
1,1,2,2-Tetrachloroethane	ND<12	25	0.5	Tetrachloroethene	ND<12	25	0.5
Toluene	ND<12	25	0.5	1,2,3-Trichlorobenzene	ND<12	25	0.5
1,2,4-Trichlorobenzene	ND<12	25	0.5	1,1,1-Trichloroethane	1200	25	0.5
1,1,2-Trichloroethane	17	25	0.5	Trichloroethene	ND<12	25	0.5
Trichlorofluoromethane	ND<12	25	0.5	1,2,3-Trichloropropane	ND<12	25	0.5
1,2,4-Trimethylbenzene	ND<12	25	0.5	1,3,5-Trimethylbenzene	ND<12	25	0.5
Vinyl Chloride	ND<12	25	0.5	Xylenes	ND<12	25	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	102		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/11/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/11/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-002B
Client ID	B2 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	9.2	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	18	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	1.8	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	99
%SS3:	102		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-003B
Client ID	B3 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	1.5	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	3.3	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	1.0	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	2.6	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.3	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	1.7	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	102
%SS3:	105		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-004B
Client ID	B4 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.3	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	104		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
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1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-005B
Client ID	B5 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.70	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	100
%SS3:	103		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08-01/09/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
010A	B4d9.5	S	ND	ND	ND	ND	ND	ND	1	91
011A	B5d3.5	S	ND	ND	ND	ND	ND	ND	1	85

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

AR Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/08/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 01/08/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
004A	B4 Water	W	ND,i	ND	ND	1.1	ND	ND	1	90
005A	B5 Water	W	ND,i	ND	ND	ND	ND	ND	1	96

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C/3630C Analytical methods: SW8015C Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0801147-006A	Comp S1A-D	S	9.9,g	84	5	93

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015C Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0801147-001A	B1 Water	W	ND,i	ND,i	1	102
0801147-002A	B2 Water	W	95,d,b,i	ND,i	1	100
0801147-003A	B3 Water	W	ND,i	ND,i	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to matrix interference; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8082A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8082A	Extraction SW3550C				BatchID: 33042				Spiked Sample ID: 0801144-030A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	125	124	0.567	124	125	0.640	70 - 130	20	70 - 130	20
%SS:	124	0.050	116	115	0.143	112	109	2.83	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33042 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/09/08 8:26 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder 0801147

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 33045				Spiked Sample ID: 0801159-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	106	105	1.26	109	111	1.76	70 - 130	30	70 - 130	30
MTBE	ND	10	103	95.3	7.89	96.9	91.7	5.46	70 - 130	30	70 - 130	30
Benzene	ND	10	99.3	102	2.71	93.1	92.6	0.552	70 - 130	30	70 - 130	30
Toluene	ND	10	99.7	100	0.682	93.5	93	0.502	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	106	0	99.9	99	0.918	70 - 130	30	70 - 130	30
Xylenes	ND	30	117	120	2.82	110	110	0	70 - 130	30	70 - 130	30
%SS:	89	10	90	92	1.80	88	88	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33045 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-004A	01/07/08 10:17 AM	01/08/08	01/08/08 5:08 PM	0801147-005A	01/07/08 10:51 AM	01/08/08	01/08/08 4:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0801147

EPA Method SW8015C	Extraction SW3510C/3630C				BatchID: 33046				Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	93.9	81.9	13.7	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	114	111	2.39	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33046 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-001A	01/07/08 8:10 AM	01/07/08	01/08/08 3:03 PM	0801147-002A	01/07/08 8:51 AM	01/07/08	01/08/08 4:11 PM
0801147-003A	01/07/08 12:15 PM	01/07/08	01/08/08 5:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8015C	Extraction SW3550C/3630C				BatchID: 33048				Spiked Sample ID: 0801147-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	9.9	20	70.7	71	0.199	93.8	92	1.96	70 - 130	30	70 - 130	30
%SS:	93	50	98	98	0	114	110	4.21	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33048 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/08/08 6:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 33049				Spiked Sample ID: 0801147-011A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	96.9	84.9	13.1	88.5	97.9	10.1	70 - 130	30	70 - 130	30
MTBE	ND	0.10	90.7	92	1.38	91.7	91.7	0	70 - 130	30	70 - 130	30
Benzene	ND	0.10	97.7	97.4	0.250	105	101	3.40	70 - 130	30	70 - 130	30
Toluene	ND	0.10	85.5	84.6	1.06	93.3	91	2.48	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	98.9	97.5	1.39	103	102	1.51	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	91.3	91	0.366	95.3	95.3	0	70 - 130	30	70 - 130	30
%SS:	85	0.10	99	96	2.74	105	103	1.45	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33049 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-010A	01/07/08 10:02 AM	01/07/08	01/09/08 2:11 AM	0801147-011A	01/07/08 10:37 AM	01/07/08	01/08/08 7:33 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Reported: 01/14/08
	Client P.O.:	Date Completed: 01/18/08

WorkOrder: 0801147

January 18, 2008

Dear Joel:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **Coliseum Way,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33044			Spiked Sample ID: 0801146-025A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	109	110	0.571	115	113	1.57	70 - 130	30	70 - 130	30
Benzene	ND	0.050	118	117	0.433	120	120	0	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	86.5	97.8	12.2	91.4	91.5	0.181	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	93	93.6	0.659	103	104	0.271	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	81.8	84.1	2.82	92.8	90	3.01	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	109	110	1.06	107	108	0.581	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	126	123	2.42	128	129	0.576	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	127	127	0	129	129	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	116	116	0	116	114	1.85	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	105	104	0.775	111	110	1.01	70 - 130	30	70 - 130	30
Toluene	ND	0.050	90.9	91.7	0.916	99.5	99.4	0.0736	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	81	82	1.23	84.9	85.9	1.25	70 - 130	30	70 - 130	30
%SS1:	92	0.050	93	92	1.35	98	96	1.38	70 - 130	30	70 - 130	30
%SS2:	101	0.050	92	93	0.836	99	99	0	70 - 130	30	70 - 130	30
%SS3:	100	0.050	99	100	0.574	100	101	0.631	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33044 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/10/08 4:06 AM	0801147-010A	01/07/08 10:02 AM	01/07/08	01/10/08 4:52 AM
0801147-011A	01/07/08 10:37 AM	01/07/08	01/10/08 5:38 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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"When Quality Counts"

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33011				Spiked Sample ID: 0801172-006B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	103	98.4	5.00	115	117	1.71	70 - 130	30	70 - 130	30
Benzene	ND	10	116	113	2.07	121	123	1.56	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	84.5	90.1	6.41	89.1	92.8	4.03	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	101	90.1	11.0	101	103	1.16	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	88.6	80.6	9.42	87.9	88.3	0.464	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	127	125	2.03	110	111	1.29	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	128	129	0.125	126	127	0.223	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	123	126	2.00	129	129	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	109	110	0.843	117	120	2.20	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	117	121	3.41	109	111	1.65	70 - 130	30	70 - 130	30
Toluene	ND	10	96.4	85.7	11.2	96.3	98	1.71	70 - 130	30	70 - 130	30
Trichloroethene	8.1	10	84.6	82	1.58	85.6	86.1	0.543	70 - 130	30	70 - 130	30
%SS1:	103	10	104	106	2.08	93	91	2.17	70 - 130	30	70 - 130	30
%SS2:	100	10	95	90	4.74	97	96	1.12	70 - 130	30	70 - 130	30
%SS3:	99	10	91	88	4.13	100	101	0.500	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33011 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-001B	01/07/08 8:10 AM	01/11/08	01/11/08 11:32 AM	0801147-002B	01/07/08 8:51 AM	01/11/08	01/11/08 12:17 PM
0801147-003B	01/07/08 12:15 PM	01/10/08	01/10/08 3:50 AM	0801147-004B	01/07/08 10:17 AM	01/10/08	01/10/08 4:36 AM
0801147-005B	01/07/08 10:51 AM	01/10/08	01/10/08 5:21 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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0807147

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Joel Greger Bill To: PIERS
Company: PIERS Environmental
1330 S Bascom Ave, Suite F
E-Mail: piers@piersES.com
Tele: (510) 5935382 Fax: (510) 787457
Project #: Project Name: Coliseum Way
Project Location: 4700 Coliseum Way, Oakland
Sampler Signature: Joel G

Analysis Request: (1) BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE; (2) TPH as Diesel (8015) + motor oil w/ silica gel; (3) Total Petroleum Oil & Grease (1664 / 5520 E/B&F); (4) Total Petroleum Hydrocarbons (418.1); (5) EPA 502.2 / 601 / 8010 / 8021 (HVOCs); (6) MTBE / BTEX ONLY (EPA 602 / 8021); (7) EPA 505 / 608 / 8081 (Cl Pesticides); (8) EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners; (9) EPA 507 / 8141 (NP Pesticides); (10) EPA 515 / 8151 (Acidic Cl Herbicides); (11) EPA 524.2 / 624 / 8260 (VOCs); (12) EPA 525.2 / 625 / 8270 (SVOCs); (13) EPA 8270 SIM / 8310 (PAHs / PNAs); (14) CAM 17 Metals (200.7 / 200.8 / 6010 / 6020); (15) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020); (16) Lead (200.7 / 200.8 / 6010 / 6020)

Other: PCBs; 8260 added 7/15/08 5d

Comments: Filter Samples for Metals analysis: Yes / No

	SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO₃	Other	(1)	(2)	(11)	PCBs	8260 added 7/15/08 5d
110	B1 water		7-7-08	8:10AM	4	VOA	x					x	x				x	x		
110	B2 water		↓	7:51AM	1		x					x	x				x	x		
120	B3 water			11:15AM	2	VOA	x					x	x				x	x		
130	B4 water			11:11AM	4	VOA	x					x	x			x		x		
100	B5 water			10:51AM	4	↓	x					x	x			x		x		
	Comp 5(A-D)			9:24AM	4	liner		x				x					x	x	x	
	B1 @ 2.5'			8:01AM	1			x				x					~~x~~	~~x~~		⊗
	B2 @ 10.5'			8:41AM	1			x				x					~~x~~	~~x~~		⊗
	B3 14.5			11:40AM	1			x				x					~~x~~	~~x~~		⊗
	B4 14.5			10:02AM	1			x				x				x		x		
	B5 13.5			1:37PM	1	↓		x				x				x		x		

Relinquished By:	Date:	Time:	Received By:
Joel G	7/7/08	12:45pm	[signature]
[signature]	7/8/08	9:45	M. Vall

ICE/t° 6.0°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS:

PRESERVATION VOAS ✓ O&G METALS pH<2 OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 080114 A **ClientID: PESJ**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128

Email: piers@pierses.com
TEL: (408) 559-1248 FAX: (408) 559-1224
ProjectNo: Coliseum Way
PO:

Bill to:
Jennifer
Piers Environmental
1330 S. Bascum Avenue, Ste. F
San Jose, CA 95128
jennifer@pierses.com

Requested TAT: 5 days
Date Received: 01/07/2008
Date Add-On: 01/15/2008
Date Printed: 01/15/2008

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0801147-007	B1d2.5'	Soil	01/07/08 8:01:00	☐	A											
0801147-008	B2d0.5'	Soil	01/07/08 8:41:00	☐	A											
0801147-009	B3d4.5'	Soil	01/07/08 9:40:00	☐	A											

Test Legend:

1	8260B_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments: B1d2.5', B2d0.5',B3d4.5' off hold for VOCs 1/15/08 5d per J.G

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-007A
Client ID	B1d2.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	0.061	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	107	%SS2:	101
%SS3:	97		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-008A
Client ID	B2d0.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	105	%SS2:	101
%SS3:	97		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-009A
Client ID	B3d4.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	101
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33164				Spiked Sample ID: 0801317-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	103	105	1.82	116	115	0.723	70 - 130	30	70 - 130	30
Benzene	ND	0.050	102	104	1.93	117	117	0	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	90	90.2	0.279	100	95.4	4.82	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	93.6	95.4	1.93	104	103	0.563	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.2	96.6	1.48	103	103	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	99.5	102	2.19	110	111	0.568	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	121	123	1.90	127	128	1.12	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	116	119	2.07	127	128	1.00	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	107	108	1.48	120	119	0.766	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	108	109	1.40	117	120	1.99	70 - 130	30	70 - 130	30
Toluene	ND	0.050	89.7	91.8	2.26	101	99.4	1.40	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	76.9	78.6	2.14	88.1	87.8	0.302	70 - 130	30	70 - 130	30
%SS1:	105	0.050	103	101	1.72	103	103	0	70 - 130	30	70 - 130	30
%SS2:	98	0.050	94	94	0	93	93	0	70 - 130	30	70 - 130	30
%SS3:	96	0.050	106	106	0	107	107	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33164 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-007A	01/07/08 8:01 AM	01/15/08	01/15/08 4:36 PM	0801147-008A	01/07/08 8:41 AM	01/15/08	01/15/08 5:21 PM
0801147-009A	01/07/08 9:40 AM	01/15/08	01/15/08 6:05 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

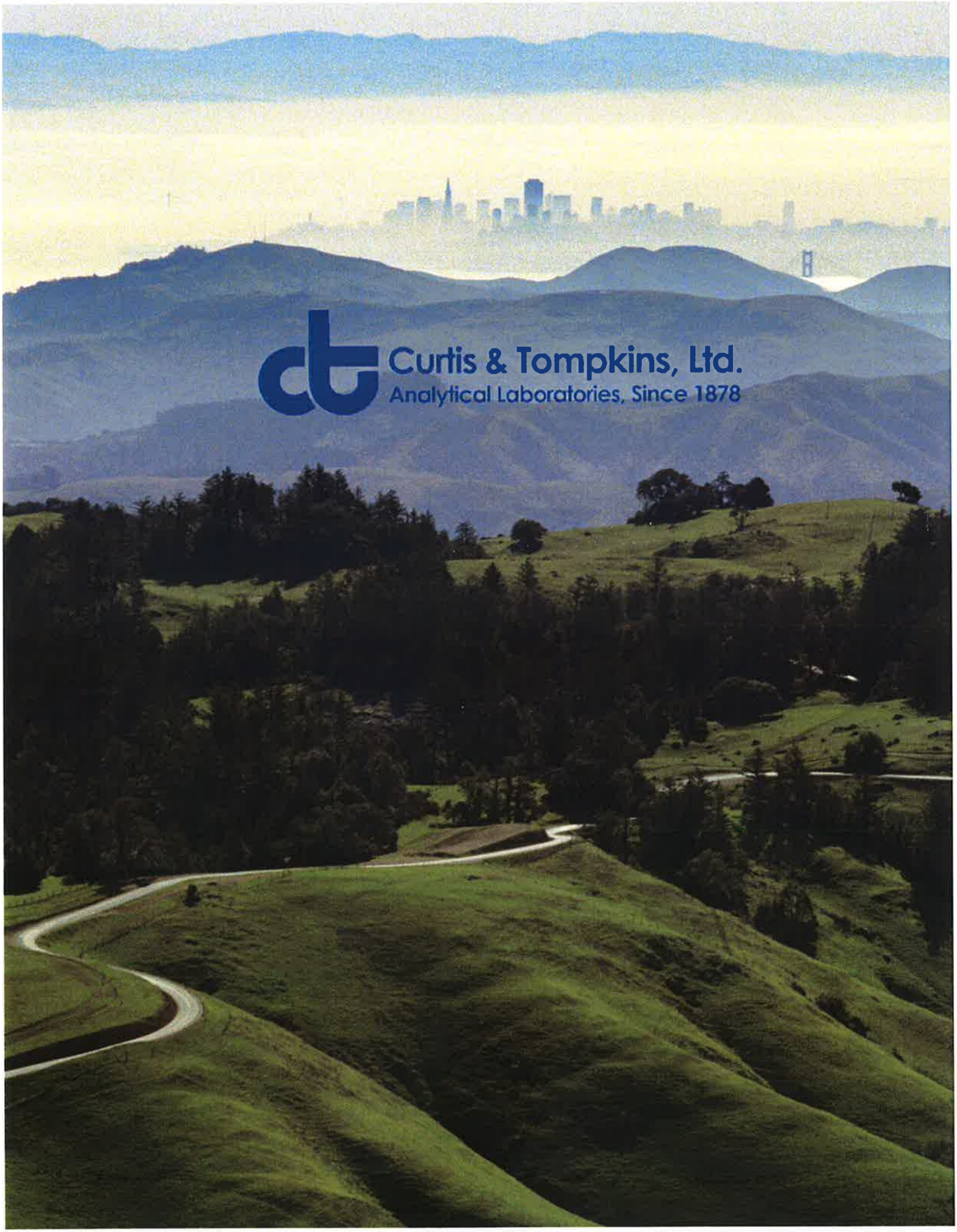
N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX B

CURTIS & TOMPKINS LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

UST Liquid Results


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 211344
ANALYTICAL REPORT

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

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.

Signature: _____ Date: 04/22/2009
Project Manager

Signature: _____ Date: 04/24/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

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

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

211344

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

LABORATORY: Curtis & Tompkins
JOB NUMBER: 1148.001.03
NAME / LOCATION: 4700 Coliseum Wy, Oakland
PROJECT MANAGER: KSF

SAMPLERS: CJB/LM
RECORDER: CJB/LM

	DATE YR	DATE MO	DATE DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	MATRIX Water	MATRIX Soil	MATRIX Sedim't	# of Containers Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	09	04	10	1000	Stock-1			X		1					
2	↓	↓	↓	1005	Stock-2			X		1					
3	↓	↓	↓	1010	Stock-3			X		1					
4	↓	↓	↓	1015	Stock-4			X		1					
5	↓	↓	↓	1315	Tank Fluid		X			2				6	
6	↓	↓	↓	1350	B-41-0			X		1					
7	↓	↓	↓	1400	B-42-0			X		1					
8	↓	↓	↓	1410	B-43-0			X		1					

ANALYSIS REQUESTED

	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	VOCs by 8260B	Title 22 metals	Fuel Scan, purg. Hydrocarbons by 8015	Fuel Scan, extractable hydrocarbons by 8015	Lead	Zinc	NOTE:
1									X	X					*
2									X	X					*
3									X	X					*
4									X	X					*
5									X		X	X			
6													X	X	
7													X	X	
8													X	X	

NOTES

Turn Around Time: 48-hour TAT

* Please composite samples Stock-1 through Stock-4 and analyze as a single composite - do not run discretes.

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
[signature]	[signature]	4-10-09	1420
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME

DISPATCHED BY: (Signature) DATE TIME RECEIVED FOR LAB BY: (Signature) DATE TIME

METHOD OF SHIPMENT:

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

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 211344 Date Received 4/10/09 Number of coolers 1
Client PES Project 4700 Coliseum Way, Oakland

Date Opened 4/10/09 By (print) Phuong Le (sign) P Le
Date Logged in ___ By (print) ___ (sign) ___

1. Did cooler come with a shipping slip (airbill, etc) ___ YES (NO)
   Shipping info ___
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☑ NO
   How many ___ Name ___ Date ___
2B. Were custody seals intact upon arrival? ___ YES NO (N/A)
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) ___

☑ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None 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 (NO)
   If YES, what time were they transferred to freezer? ___
9. Did all bottles arrive unbroken/unopened? ___ (YES) NO
10. Are samples in the appropriate containers for indicated tests? ___ (YES) NO
11. Are sample labels present, in good condition and complete? ___ (YES) NO
12. Do the sample labels agree with custody papers? ___ (YES) NO
13. Was sufficient amount of sample sent for tests requested? ___ (YES) NO
14. Are the samples appropriately preserved? ___ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? ___ (YES) NO N/A
16. Was the client contacted concerning this sample delivery? ___ YES NO
   If YES, Who was called? ___ By ___ Date: ___

COMMENTS

___

Curtis & Tompkins, Ltd.

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:	TANK FLUID	Batch#:	149843
Matrix:	Water	Sampled:	04/10/09
Units:	ug/L	Received:	04/10/09
Diln Fac:	1.000		

Type: SAMPLE
Lab ID: 211344-005

Analyzed: 04/11/09

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	63-146
Bromofluorobenzene (FID)	93	70-140

Type: BLANK
Lab ID: QC491322

Analyzed: 04/10/09

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	63-146
Bromofluorobenzene (FID)	102	70-140

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

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

Curtis & Tompkins, Ltd.

Batch QC Report

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:	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: QC491324

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	517.4	2,000	2,232	86	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	63-146
Bromofluorobenzene (FID)	116	70-140

Type: 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

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

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		

Type: SAMPLE Lab ID: 211344-005

Analyte	Result	RL
Diesel C10-C24	1,500 Y	50
Motor Oil C24-C36	820	300

Surrogate	%REC	Limits
o-Terphenyl	106	61-127

Type: BLANK Lab ID: QC491373

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	112	61-127

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

Curtis & Tompkins, Ltd.

Batch QC Report

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

Curtis & Tompkins, Ltd.

Batch QC Report

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:	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: MS
Lab ID: QC491375

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	89.16	2,500	2,025	77	38-127

Surrogate	%REC	Limits
o-Terphenyl	75	61-127

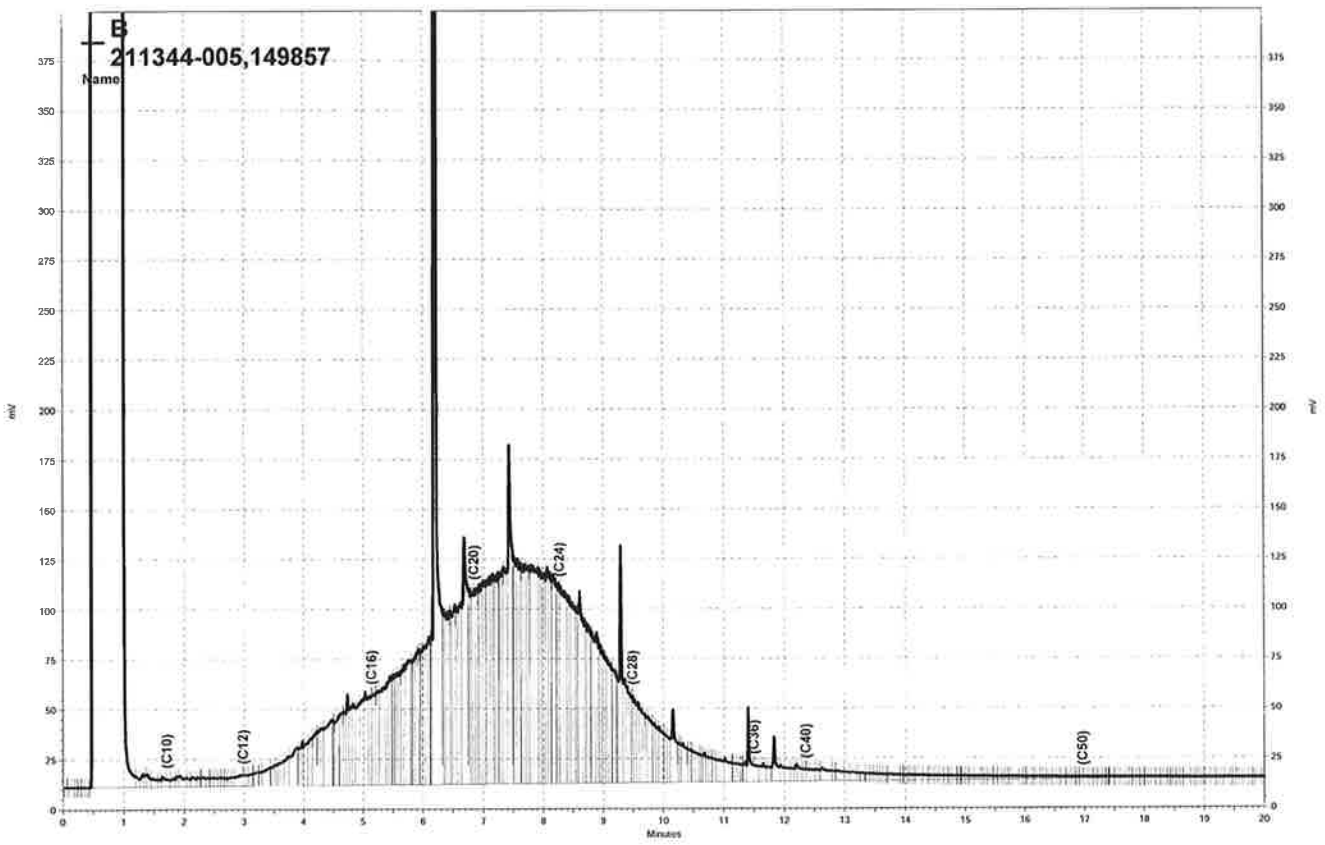
Type: MSD
Lab ID: QC491376

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,047	78	38-127	1	37

Surrogate	%REC	Limits
o-Terphenyl	81	61-127

RPD= Relative Percent Difference



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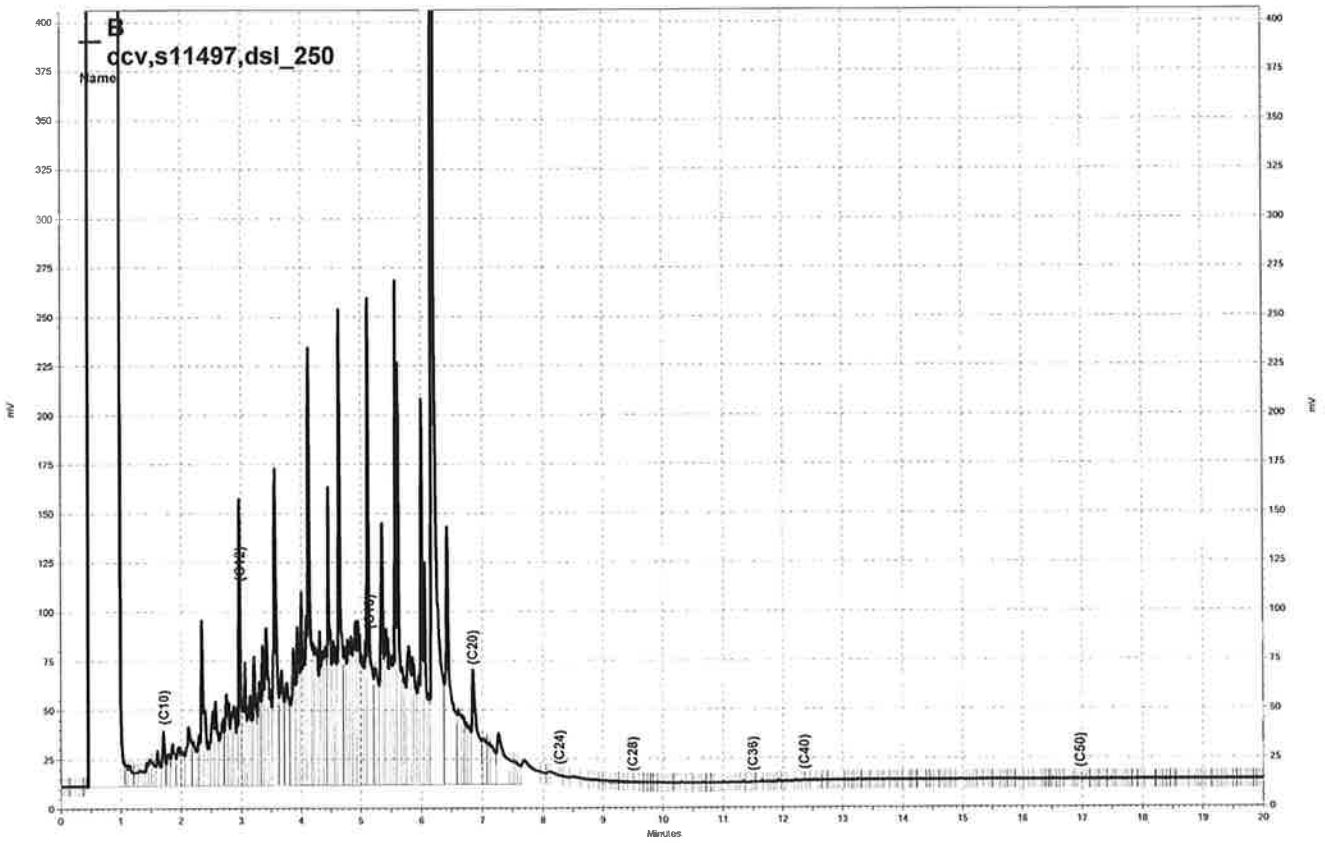

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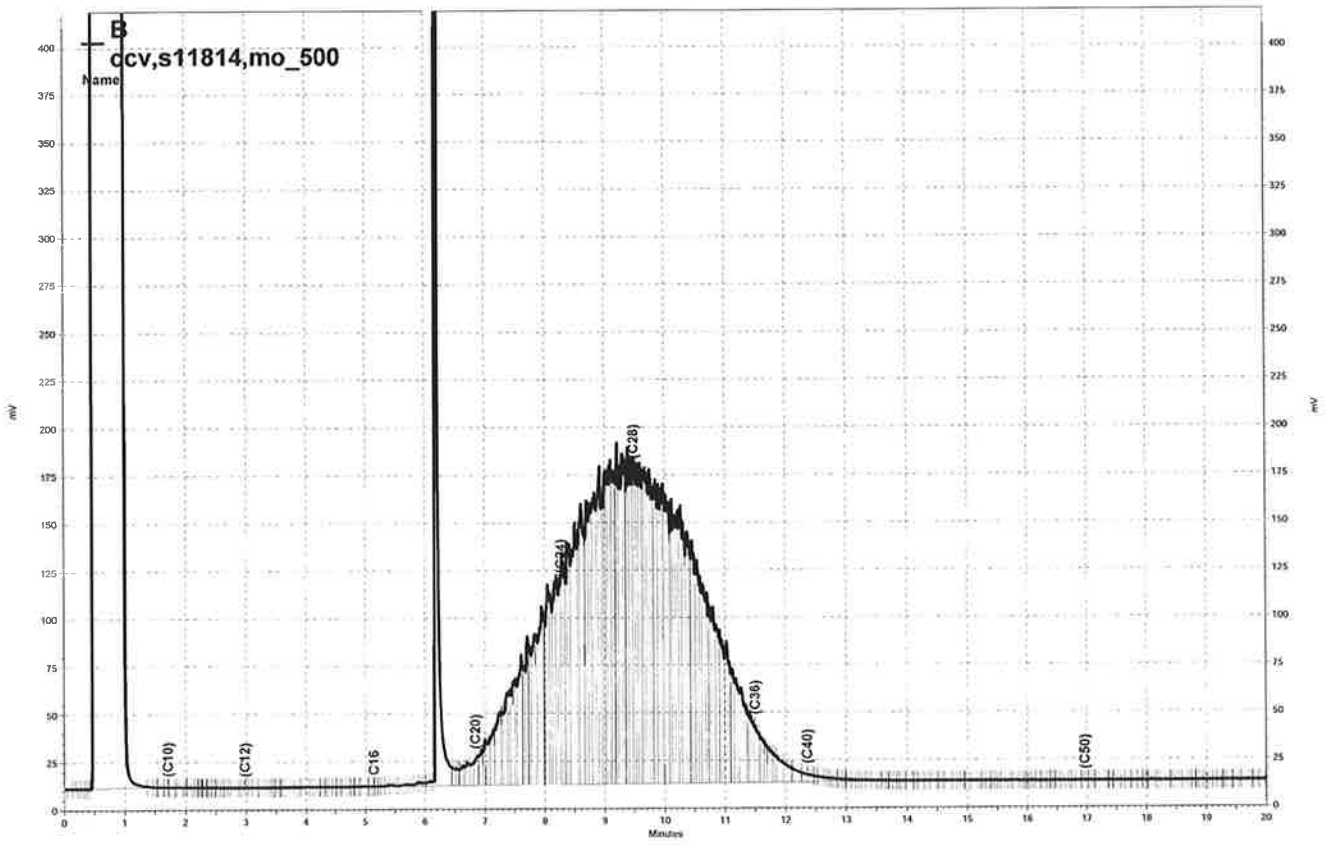

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Curtis & Tompkins, Ltd.

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:	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

Curtis & Tompkins, Ltd.

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:	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

Curtis & Tompkins, Ltd.

Batch QC Report

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	Diln Fac:	1.000
Lab ID:	QC491642	Batch#:	149923
Matrix:	Water	Analyzed:	04/14/09
Units:	ug/L		

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
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

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

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	Diln Fac:	1.000
Lab ID:	QC491642	Batch#:	149923
Matrix:	Water	Analyzed:	04/14/09
Units:	ug/L		

Analyte	Result	RL
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	0.5 b	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	110	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	96	80-125

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

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
Matrix:	Water	Batch#:	149923
Units:	ug/L	Analyzed:	04/14/09
Diln Fac:	1.000		

Type: BS Lab ID: QC491640

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 Lab ID: QC491641

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

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

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	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

Curtis & Tompkins, Ltd.

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	Result	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

Curtis & Tompkins, Ltd.

Batch QC Report

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
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

Curtis & Tompkins, Ltd.

Batch QC Report

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

Curtis & Tompkins, Ltd.

Batch QC Report

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
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	149831
Basis:	as received	Analyzed:	04/10/09

Type: BS Lab ID: QC491268

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

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: QC491269

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

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

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:	ZZZZZZZZZZ	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: QC491365

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

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	211344	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03	Analysis:	EPA 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 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

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

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

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
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 NM	49-124			10.00	04/13/09
MSD	QC491387		90.91	663.0	-1370 NM	49-124	3	31	10.00	04/13/09

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	211344	Project#:	1148.001.03
Client:	PES Environmental, Inc.	Location:	4700 Coliseum Way Site, 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	149860	04/10/09	04/11/09	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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

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

Curtis & Tompkins, Ltd.

Batch QC Report

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
Matrix:	Soil	Batch#:	149860
Units:	mg/Kg	Prepared:	04/10/09
Basis:	as received	Analyzed:	04/11/09
Diln Fac:	1.000		

Type: BS Lab ID: QC491384

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

Type: BSD Lab ID: QC491385

Analyte	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
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
Silver	10.00	10.28	103	80-120	2	20
Thallium	50.00	47.65	95	80-120	0	20
Vanadium	25.00	26.50	106	80-120	2	20
Zinc	25.00	23.05	92	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

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
Field ID:	ZZZZZZZZZZ	Batch#:	149860
MSS Lab ID:	211344-006	Sampled:	04/10/09
Matrix:	Soil	Received:	04/10/09
Units:	mg/Kg	Prepared:	04/10/09
Basis:	as received		

Type: MS Lab ID: QC491386

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
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: QC491387

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

Curtis & Tompkins, Ltd.

Zinc

Lab #:	211344	Location:	4700 Coliseum Way 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 Fac	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
B-43-0	SAMPLE	211344-008	600	9.4	10.00	04/13/09
	BLANK	QC491383	ND	1.0	1.000	04/11/09

ND= Not Detected
RL= Reporting Limit

12.0

Curtis & Tompkins, Ltd.

Batch QC Report

Zinc

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

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC491384		25.00	22.44	90	80-120			1.000	04/11/09
BSD	QC491385		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

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

13.0

Curtis & Tompkins, Ltd.

Batch QC Report

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	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

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

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

Type	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

Curtis & Tompkins, Ltd.

Batch QC Report

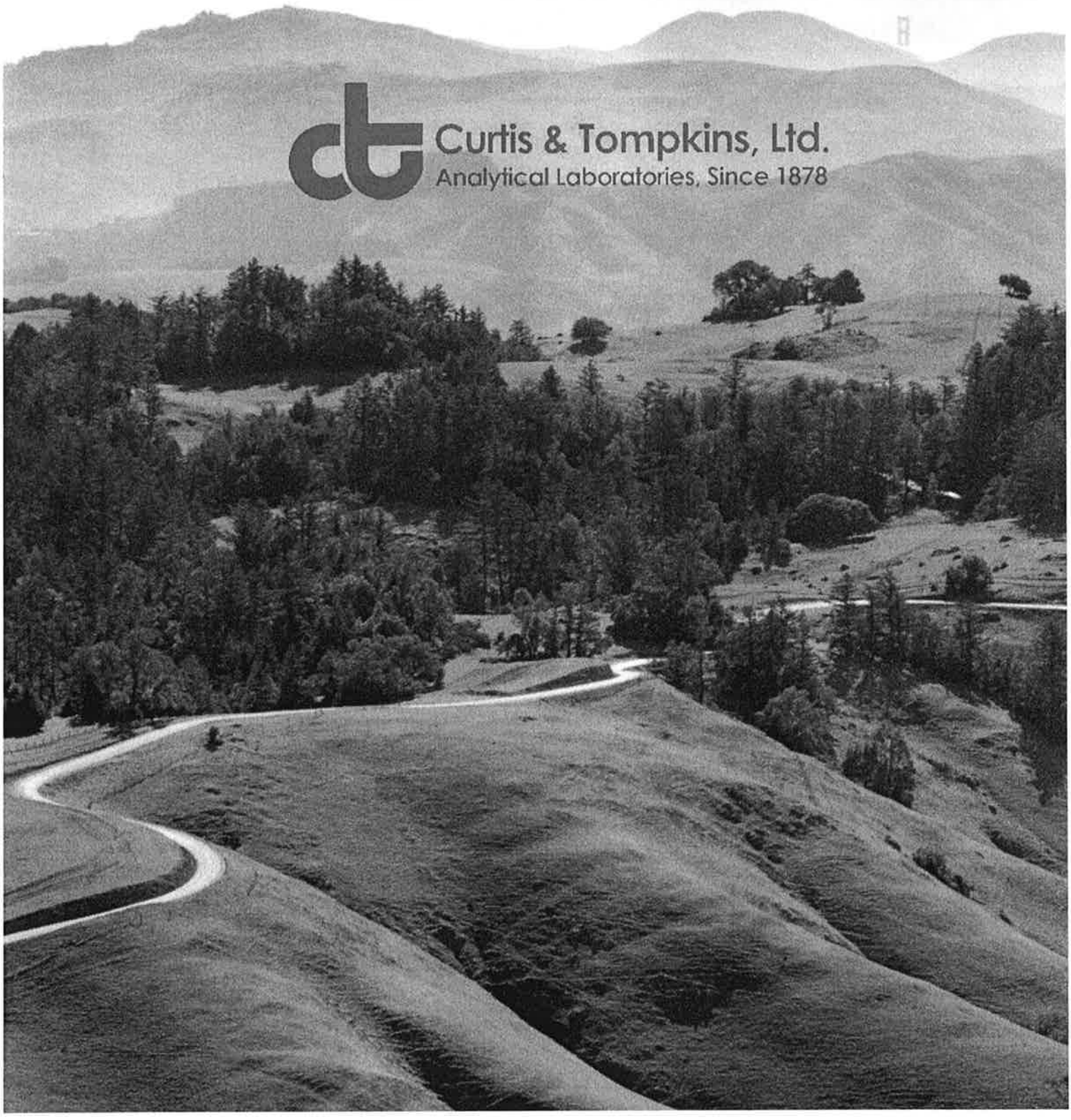
California Title 22 Metals

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
Field ID:	ZZZZZZZZZZ	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

RPD= Relative Percent Difference

UST Verification Sample Results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Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 212270
ANALYTICAL REPORT

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

Sample ID	Lab ID
USTSW-NW	212270-001
USTSW-SE	212270-002
UST-GW1	212270-003

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: _____ Date: 06/02/2009
Project Manager

Signature: _____ Date: 06/04/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**212270**
Client:	**PES Environmental, Inc.**
Project:	**1148.001.03**
Location:	**4700 Coliseum Way Site, Oakland**
Request Date:	**05/20/09**
Samples Received:	**05/20/09**

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

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
No analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
No analytical problems were encountered.

Metals (EPA 6010B) Soil:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

212270

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

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

LABORATORY: Curtis & Tompkins, Ltd.
SAMPLERS: M. Rizo & G. Thomas
JOB NUMBER: 1148.001.03
NAME / LOCATION: 4700 Coliseum Way Site / Oakland
PROJECT MANAGER: Kyle Flory
RECORDER: M. Rizo

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX: Vapor	Water	Soil	Sedim't	# of Containers & Preservatives: Unpres.	EnCore	H_2SO_4	HNO_3	HCl	Core'N'Dry	Amber (brass)	DEPTH IN FEET	ANALYSES REQUESTED: EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M *	TPHmo by 8015M *	EPA 8270C	MNA Parameters (see notes)	Luft metals by CAM17**	BTEX by 8260B	Fuel oxygenates w/ MTBE by 8260B
1	09	05	20	1310	USTSW-NW			X		1					3						X	X	X			X	X	X
2	09	05	20	1320	USTSW-SE			X		1					3						X	X	X			X	X	X
3	09	05	20	1350	UST-GW1	X				1				6		2					X	X	X			X	X	X

NOTES

Turn Around Time: 24-hour - TAT

* With silica gel cleanup
** Filter and then preserved groundwater sample for LUFT Metals analysis in laboratory

Page 1 of 1

Samples intact/on ice

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	5/20/09	245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT: Dropped off at Lab

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

30137

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 212270 Date Received 5/20/09 Number of coolers 1
Client PES Project 4700 COLISEUM WAY SITE

Date Opened 5/20/09 By (print) M. VILLANUEVA (sign)
Date Logged in ✓ By (print) ✓ (sign) ✓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES ~~NO~~
   Shipping info _____
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ ~~NO~~
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO ~~N/A~~
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) _____

☐ Bubble Wrap ☑ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None 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 ~~NO~~
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are samples in the appropriate containers for indicated tests? _____ YES NO
11. Are sample labels present, in good condition and complete? _____ YES NO
12. Do the sample labels agree with custody papers? _____ YES NO
13. Was sufficient amount of sample sent for tests requested? _____ YES NO
14. Are the samples appropriately preserved? _____ YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
    If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	UST-GW1	Batch#:	151215
Matrix:	Water	Sampled:	05/20/09
Units:	ug/L	Received:	05/20/09
Diln Fac:	1.000	Analyzed:	05/20/09

Type: SAMPLE Lab ID: 212270-003

Analyte	Result	RL
Gasoline C7-C12	68 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	63-146
Bromofluorobenzene (FID)	110	70-140

Type: BLANK Lab ID: QC496854

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	63-146
Bromofluorobenzene (FID)	104	70-140

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	212270	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:	QC496855	Batch#:	151215
Matrix:	Water	Analyzed:	05/20/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,107	111	76-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	63-146
Bromofluorobenzene (FID)	110	70-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	151215
MSS Lab ID:	212257-002	Sampled:	05/18/09
Matrix:	Water	Received:	05/19/09
Units:	ug/L	Analyzed:	05/20/09
Diln Fac:	1.000		

Type: MS Lab ID: QC496856

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	16.24	2,000	1,799	89	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	132	63-146
Bromofluorobenzene (FID)	115	70-140

Type: MSD Lab ID: QC496857

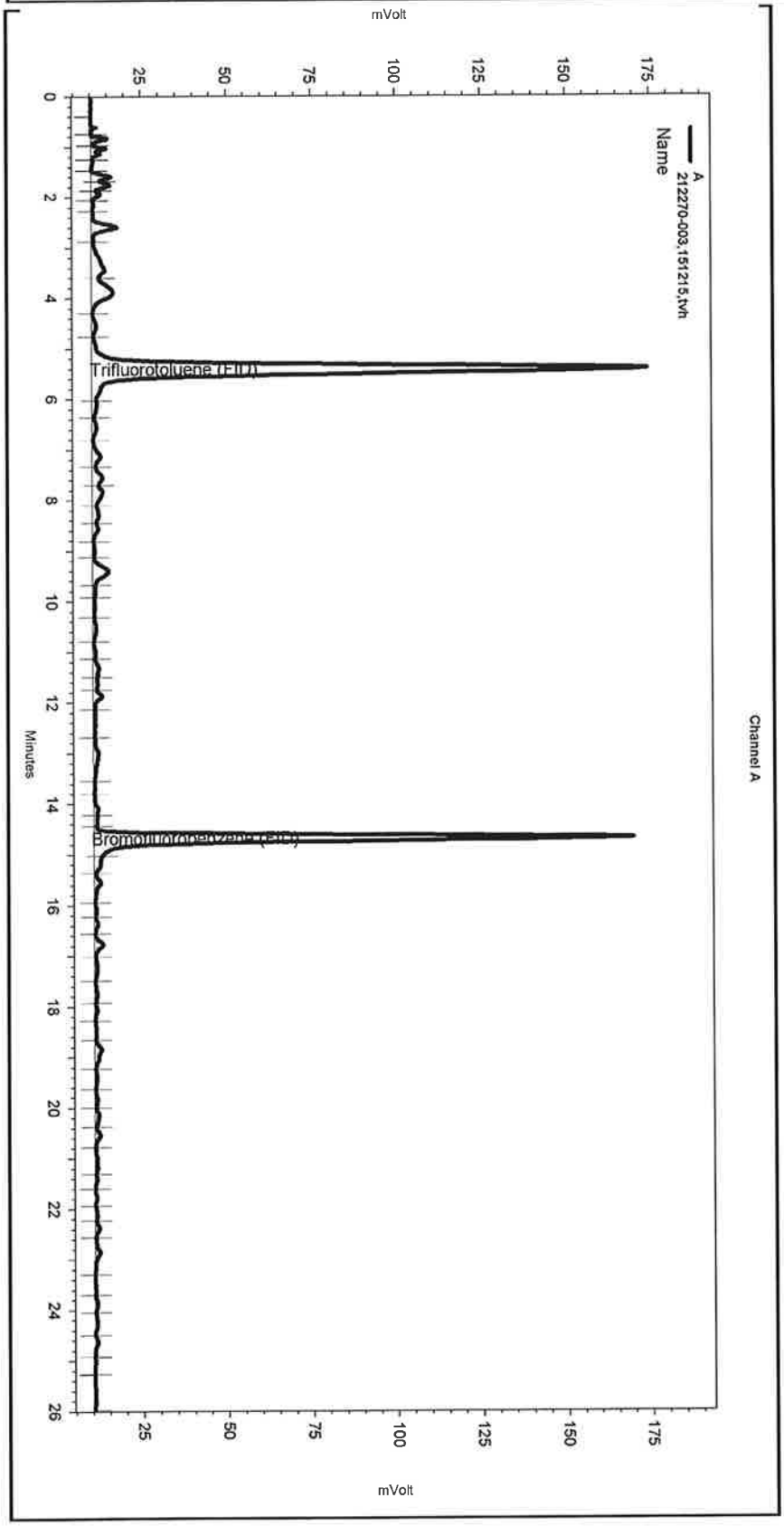
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,831	91	66-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	63-146
Bromofluorobenzene (FID)	119	70-140

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\140.seq**
Sample Name: **212270-003,151215,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\140_015**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2, Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe119.met

Software Version 3.1.7
Run Date: 5/20/2009 7:45:15 PM
Analysis Date: 5/21/2009 8:03:48 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\140_015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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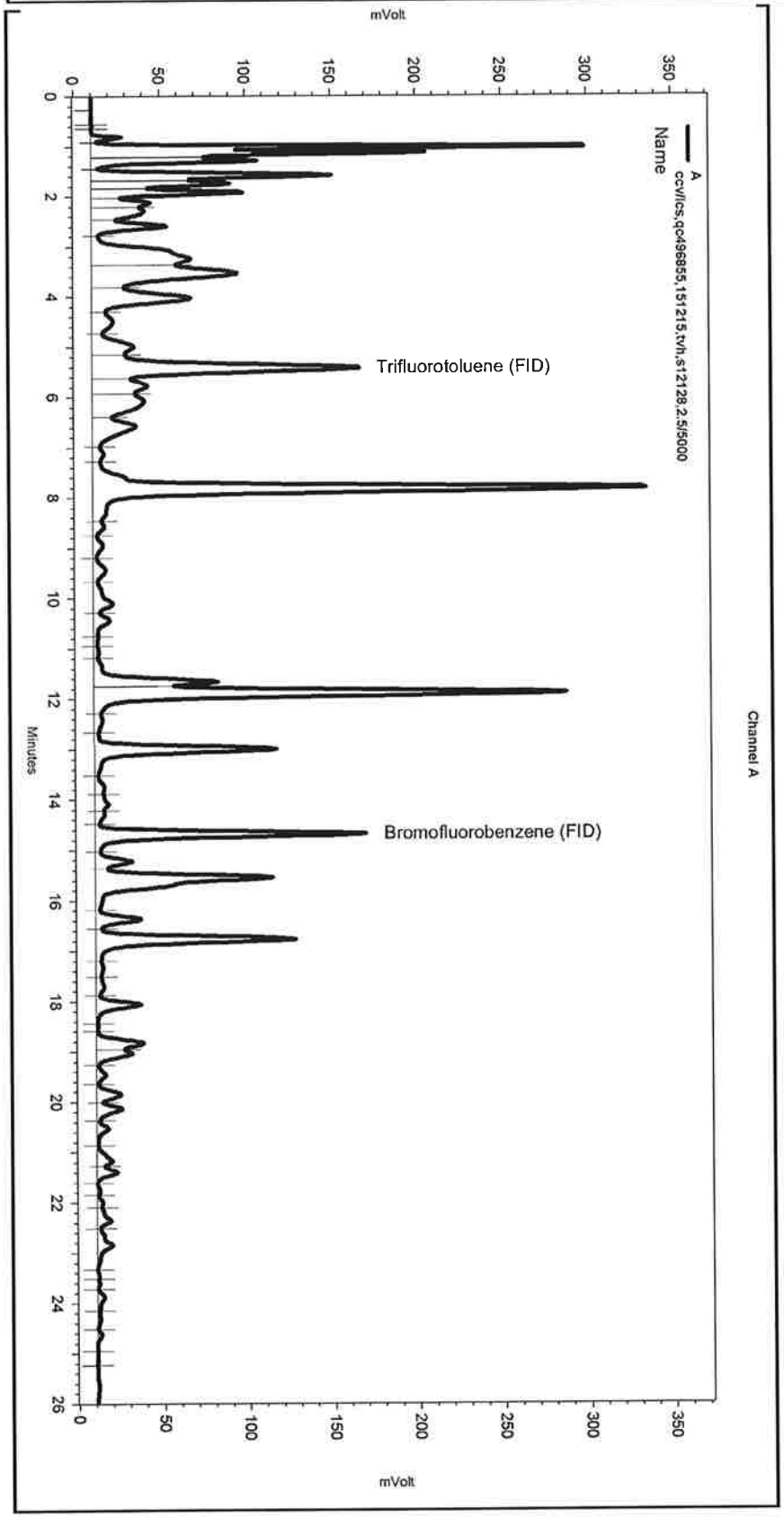
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\140.seq**
Sample Name: **ccv/lcs,qc496855,151215,tvh,s12128,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\140_005**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe119.met

Software Version 3.1.7
Run Date: 5/20/2009 12:45:08 PM
Analysis Date: 5/21/2009 7:25:00 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\140_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	151214
Units:	mg/Kg	Sampled:	05/20/09
Basis:	as received	Received:	05/20/09
Diln Fac:	1.000	Analyzed:	05/20/09

Field ID: USTSW-NW
Type: SAMPLE
Lab ID: 212270-001

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	54-152
Bromofluorobenzene (FID)	89	50-152

Field ID: USTSW-SE
Type: SAMPLE
Lab ID: 212270-002

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	54-152
Bromofluorobenzene (FID)	82	50-152

Type: BLANK
Lab ID: QC496850

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	81	54-152
Bromofluorobenzene (FID)	73	50-152

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC496851	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151214
Units:	mg/Kg	Analyzed:	05/20/09

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.303	106	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	54-152
Bromofluorobenzene (FID)	96	50-152

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	212062-024	Batch#:	151214
Matrix:	Soil	Sampled:	05/08/09
Units:	mg/Kg	Received:	05/11/09
Basis:	as received	Analyzed:	05/20/09

Type: MS Lab ID: QC496852

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1690	10.75	9.780	89	31-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	54-152
Bromofluorobenzene (FID)	106	50-152

Type: MSD Lab ID: QC496853

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	9.047	85	31-120	5	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	54-152
Bromofluorobenzene (FID)	101	50-152

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3520C
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	UST-GW1	Sampled:	05/20/09
Matrix:	Water	Received:	05/20/09
Units:	ug/L	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/21/09
Batch#:	151230		

Type: SAMPLE
Lab ID: 212270-003

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	79	61-127

Type: BLANK
Lab ID: QC496920

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	90	61-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212270	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:	QC496921	Batch#:	151230
Matrix:	Water	Prepared:	05/20/09
Units:	ug/L	Analyzed:	05/21/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,709	68	50-120

Surrogate	%REC	Limits
o-Terphenyl	74	61-127

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3520C
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	151230
MSS Lab ID:	212253-002	Sampled:	05/18/09
Matrix:	Water	Received:	05/19/09
Units:	ug/L	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/22/09

Type: MS Lab ID: QC496922

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	17.20	2,500	2,225	88	38-127

Surrogate	%REC	Limits
o-Terphenyl	101	61-127

Type: MSD Lab ID: QC496923

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,482	99	38-127	11	37

Surrogate	%REC	Limits
o-Terphenyl	113	61-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/21/09
Batch#:	151224		

Field ID: USTSW-NW
Type: SAMPLE
Lab ID: 212270-001
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	3.3 Y	0.99
Motor Oil C24-C36	27	5.0

Surrogate	%REC	Limits
o-Terphenyl	99	53-133

Field ID: USTSW-SE
Type: SAMPLE
Lab ID: 212270-002
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	7.0 Y	0.99
Motor Oil C24-C36	56	5.0

Surrogate	%REC	Limits
o-Terphenyl	98	53-133

Type: BLANK
Lab ID: QC496895
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	110	53-133

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC496896	Batch#:	151224
Matrix:	Soil	Prepared:	05/20/09
Units:	mg/Kg	Analyzed:	05/21/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	35.54	71	52-128

Surrogate	%REC	Limits
o-Terphenyl	82	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	151224
MSS Lab ID:	212268-002	Sampled:	05/20/09
Matrix:	Soil	Received:	05/20/09
Units:	mg/Kg	Prepared:	05/20/09
Basis:	as received	Analyzed:	05/21/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC496897

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.9792	49.82	41.17	81	33-145

Surrogate	%REC	Limits
o-Terphenyl	91	53-133

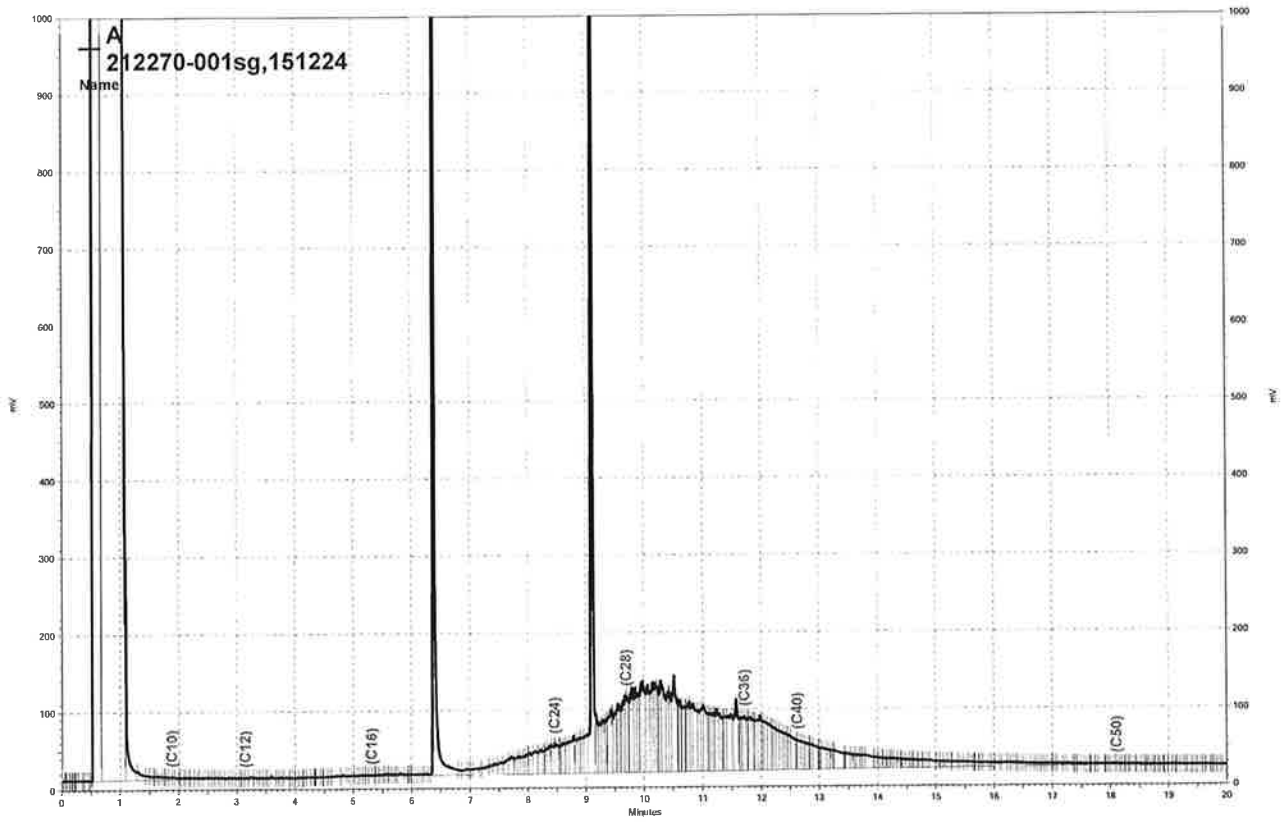
Type: MSD
Lab ID: QC496898

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.03	44.61	87	33-145	8	44

Surrogate	%REC	Limits
o-Terphenyl	98	53-133

RPD= Relative Percent Difference



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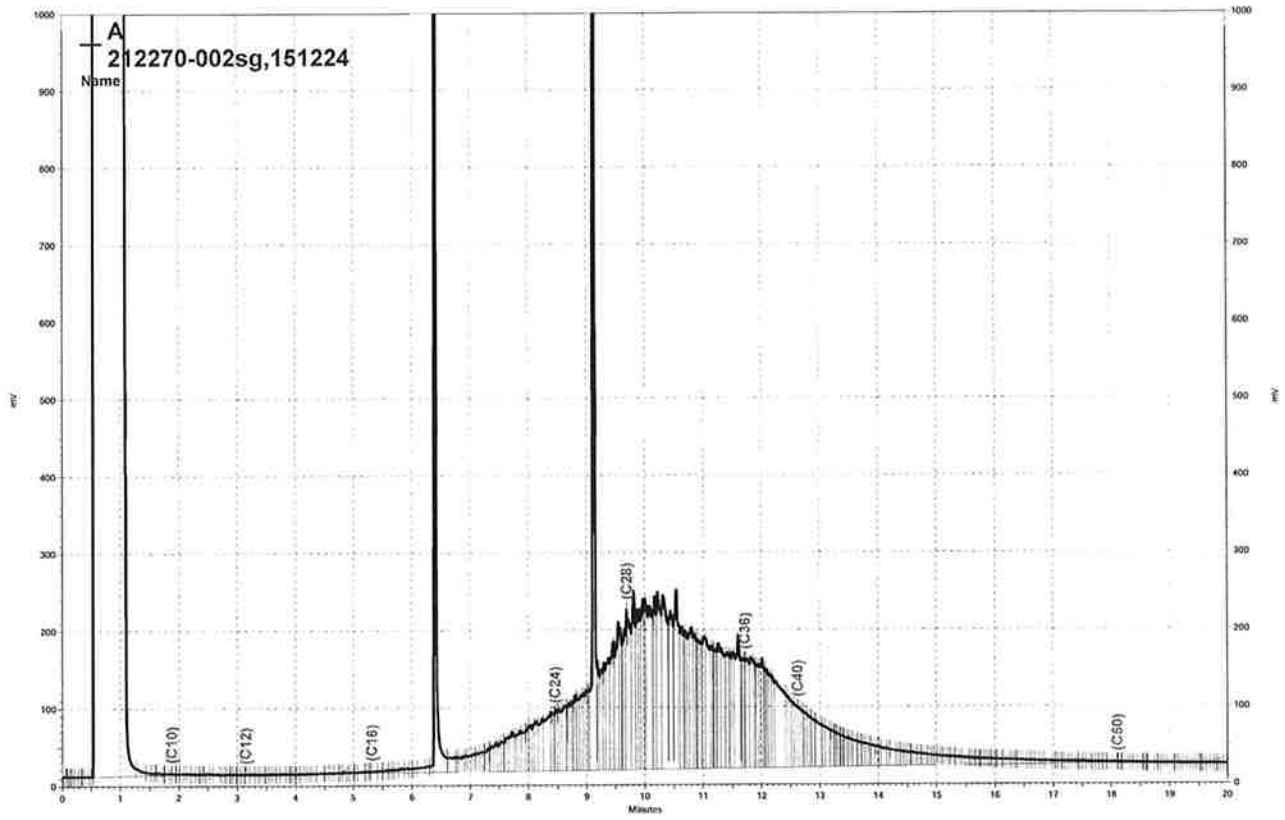

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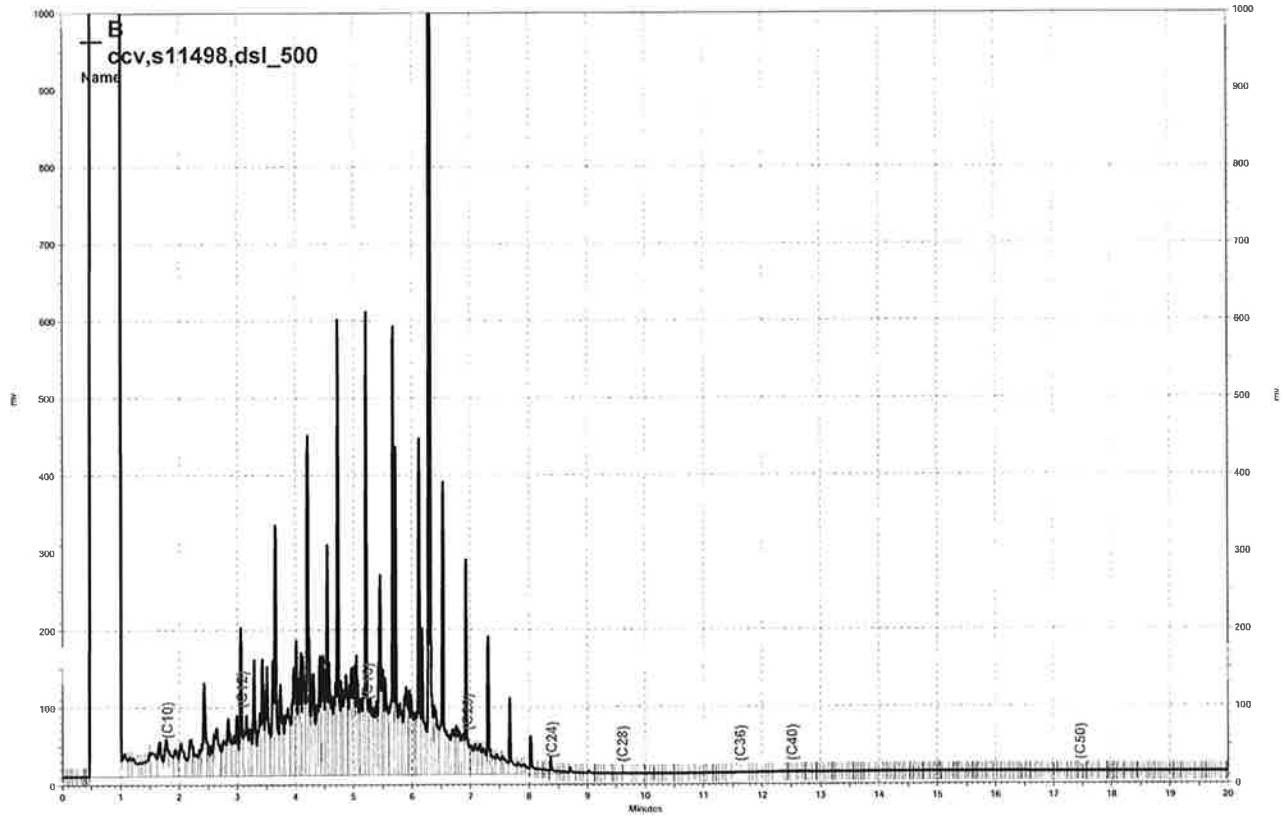

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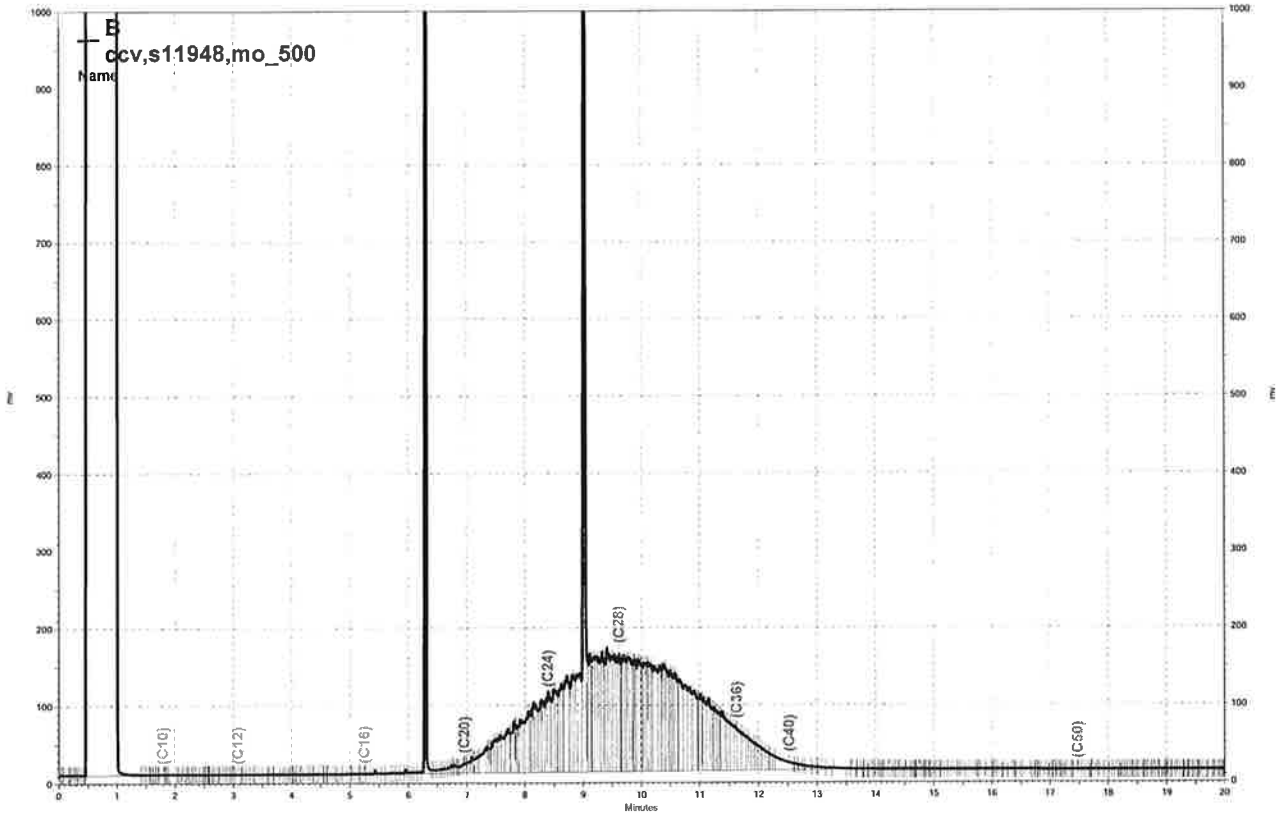

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Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	UST-GW1	Batch#:	151186
Lab ID:	212270-003	Sampled:	05/20/09
Matrix:	Water	Received:	05/20/09
Units:	ug/L	Analyzed:	05/21/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC496729	Batch#:	151186
Matrix:	Water	Analyzed:	05/20/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	97.36	97	55-151
MTBE	20.00	18.10	91	73-122
Isopropyl Ether (DIPE)	20.00	21.20	106	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	21.09	105	75-128
1,2-Dichloroethane	20.00	19.27	96	73-141
Benzene	20.00	19.61	98	80-120
Methyl tert-Amyl Ether (TAME)	20.00	17.85	89	80-121
Toluene	20.00	18.79	94	80-120
1,2-Dibromoethane	20.00	19.94	100	80-120
Ethylbenzene	20.00	20.19	101	80-121
m,p-Xylenes	40.00	38.60	96	80-122
o-Xylene	20.00	19.35	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	88	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	93	80-125

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC496730	Batch#:	151186
Matrix:	Water	Analyzed:	05/20/09
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	96	77-137
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	151186
MSS Lab ID:	212127-004	Sampled:	05/12/09
Matrix:	Water	Received:	05/13/09
Units:	ug/L	Analyzed:	05/21/09
Diln Fac:	1.000		

Type: MS Lab ID: QC496904

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<2.000	125.0	116.2	93	62-140
MTBE	<0.1000	25.00	22.58	90	73-124
Isopropyl Ether (DIPE)	<0.1000	25.00	27.46	110	71-131
Ethyl tert-Butyl Ether (ETBE)	<0.1000	25.00	26.71	107	78-130
1,2-Dichloroethane	<0.1000	25.00	28.17	113	80-139
Benzene	<0.1000	25.00	24.28	97	80-122
Methyl tert-Amyl Ether (TAME)	<0.1000	25.00	23.57	94	80-121
Toluene	<0.1000	25.00	23.19	93	80-121
1,2-Dibromoethane	<0.1000	25.00	24.28	97	80-120
Ethylbenzene	<0.1000	25.00	26.27	105	80-121
m,p-Xylenes	<0.1095	50.00	52.83	106	80-120
o-Xylene	<0.1000	25.00	25.52	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	112	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	90	80-125

Type: MSD Lab ID: QC496905

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	127.4	102	62-140	9	20
MTBE	25.00	23.38	94	73-124	3	20
Isopropyl Ether (DIPE)	25.00	27.89	112	71-131	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	27.28	109	78-130	2	20
1,2-Dichloroethane	25.00	29.70	119	80-139	5	20
Benzene	25.00	24.00	96	80-122	1	20
Methyl tert-Amyl Ether (TAME)	25.00	24.32	97	80-121	3	20
Toluene	25.00	23.54	94	80-121	1	20
1,2-Dibromoethane	25.00	22.78	91	80-120	6	20
Ethylbenzene	25.00	25.84	103	80-121	2	20
m,p-Xylenes	50.00	50.52	101	80-120	4	20
o-Xylene	25.00	24.79	99	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	114	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	93	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	USTSW-NW	Diln Fac:	0.8696
Lab ID:	212270-001	Batch#:	151192
Matrix:	Soil	Sampled:	05/20/09
Units:	ug/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	87
MTBE	ND	4.3
Isopropyl Ether (DIPE)	ND	4.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Methyl tert-Amyl Ether (TAME)	ND	4.3
Toluene	ND	4.3
1,2-Dibromoethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	93	71-128
1,2-Dichloroethane-d4	103	69-135
Toluene-d8	108	80-120
Bromofluorobenzene	103	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	USTSW-SE	Diln Fac:	0.8104
Lab ID:	212270-002	Batch#:	151192
Matrix:	Soil	Sampled:	05/20/09
Units:	ug/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	81
MTBE	ND	4.1
Isopropyl Ether (DIPE)	ND	4.1
Ethyl tert-Butyl Ether (ETBE)	ND	4.1
1,2-Dichloroethane	ND	4.1
Benzene	ND	4.1
Methyl tert-Amyl Ether (TAME)	ND	4.1
Toluene	ND	4.1
1,2-Dibromoethane	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	104	69-135
Toluene-d8	105	80-120
Bromofluorobenzene	99	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC496748	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151192
Units:	ug/Kg	Analyzed:	05/20/09

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	103	69-135
Toluene-d8	113	80-120
Bromofluorobenzene	101	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	151192
Basis:	as received	Analyzed:	05/20/09

Type: BS Lab ID: QC496749

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	87.27	70	56-140
MTBE	25.00	21.06	84	66-129
Isopropyl Ether (DIPE)	25.00	20.98	84	65-131
Ethyl tert-Butyl Ether (ETBE)	25.00	21.28	85	66-132
1,2-Dichloroethane	25.00	24.14	97	70-128
Benzene	25.00	26.40	106	80-125
Methyl tert-Amyl Ether (TAME)	25.00	22.70	91	75-128
Toluene	25.00	25.56	102	80-126
1,2-Dibromoethane	25.00	24.35	97	80-122
Ethylbenzene	25.00	26.00	104	80-127
m,p-Xylenes	50.00	51.14	102	80-125
o-Xylene	25.00	25.22	101	80-122

Surrogate	%REC	Limits
Dibromofluoromethane	95	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	97	77-131

Type: BSD Lab ID: QC496750

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	111.5	89	56-140	24	26
MTBE	25.00	21.46	86	66-129	2	20
Isopropyl Ether (DIPE)	25.00	22.71	91	65-131	8	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.44	90	66-132	5	20
1,2-Dichloroethane	25.00	25.43	102	70-128	5	20
Benzene	25.00	27.73	111	80-125	5	20
Methyl tert-Amyl Ether (TAME)	25.00	24.28	97	75-128	7	20
Toluene	25.00	29.31	117	80-126	14	20
1,2-Dibromoethane	25.00	26.39	106	80-122	8	20
Ethylbenzene	25.00	28.64	115	80-127	10	20
m,p-Xylenes	50.00	57.48	115	80-125	12	20
o-Xylene	25.00	27.07	108	80-122	7	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	103	80-120
Bromofluorobenzene	101	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	UST-SP-COMP	Diln Fac:	0.9940
MSS Lab ID:	212269-001	Batch#:	151192
Matrix:	Soil	Sampled:	05/20/09
Units:	ug/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09

Type: MS Lab ID: QC496880

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<19.88	248.5	211.7	85	42-139
MTBE	<0.9940	49.70	40.25	81	53-127
Isopropyl Ether (DIPE)	<0.9940	49.70	43.24	87	49-130
Ethyl tert-Butyl Ether (ETBE)	<0.9940	49.70	41.56	84	52-130
1,2-Dichloroethane	<0.9940	49.70	48.76	98	51-124
Benzene	<0.9940	49.70	52.26	105	56-126
Methyl tert-Amyl Ether (TAME)	<0.9940	49.70	42.40	85	58-126
Toluene	1.566	49.70	50.55	99	52-125
1,2-Dibromoethane	<0.9940	49.70	51.03	103	52-121
Ethylbenzene	<0.9940	49.70	45.62	92	48-126
m,p-Xylenes	<0.9940	99.40	90.44	91	46-125
o-Xylene	<0.9940	49.70	45.21	91	46-122

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	96	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	97	77-131

Type: MSD Lab ID: QC496881

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	248.5	209.9	84	42-139	1	36
MTBE	49.70	39.25	79	53-127	3	28
Isopropyl Ether (DIPE)	49.70	40.80	82	49-130	6	27
Ethyl tert-Butyl Ether (ETBE)	49.70	42.48	85	52-130	2	26
1,2-Dichloroethane	49.70	42.44	85	51-124	14	23
Benzene	49.70	45.43	91	56-126	14	26
Methyl tert-Amyl Ether (TAME)	49.70	44.25	89	58-126	4	25
Toluene	49.70	43.13	84	52-125	16	29
1,2-Dibromoethane	49.70	43.78	88	52-121	15	26
Ethylbenzene	49.70	39.78	80	48-126	14	29
m,p-Xylenes	99.40	75.71	76	46-125	18	30
o-Xylene	49.70	37.31	75	46-122	19	30

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-128
1,2-Dichloroethane-d4	102	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	101	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Prepared:	05/20/09
Batch#:	151235		

Field ID:	USTSW-NW	Lab ID:	212270-001
Type:	SAMPLE	Analyzed:	05/21/09

Analyte	Result	RL	Diln Fac
Cadmium	3.8	0.25	1.000
Chromium	49	0.25	1.000
Lead	9.2	0.25	1.000
Nickel	53	0.25	1.000
Zinc	820	9.2	10.00

Field ID:	USTSW-SE	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/09
Lab ID:	212270-002		

Analyte	Result	RL
Cadmium	0.32	0.25
Chromium	49	0.25
Lead	9.0	0.25
Nickel	63	0.25
Zinc	43	1.0

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC496944	Analyzed:	05/20/09

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	151235
Units:	mg/Kg	Prepared:	05/20/09
Basis:	as received	Analyzed:	05/20/09
Diln Fac:	1.000		

Type: BS Lab ID: QC496945

Analyte	Spiked	Result	%REC	Limits
Cadmium	25.00	24.10	96	80-120
Chromium	25.00	23.88	96	80-120
Lead	25.00	22.09	88	80-120
Nickel	25.00	23.03	92	80-120
Zinc	25.00	23.41	94	80-120

Type: BSD Lab ID: QC496946

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	25.00	24.11	96	80-120	0	20
Chromium	25.00	23.85	95	80-120	0	20
Lead	25.00	22.27	89	80-120	1	20
Nickel	25.00	22.88	92	80-120	1	20
Zinc	25.00	23.43	94	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03	Analysis:	EPA 6010B
Field ID:	UST-SP-COMP	Diln Fac:	1.000
MSS Lab ID:	212269-001	Batch#:	151235
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Prepared:	05/20/09

Type: MS Analyzed: 05/20/09
Lab ID: QC496947

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.009	22.73	21.20	89	63-120
Chromium	64.82	22.73	88.88	106	52-128
Lead	262.0	22.73	490.3 >LR	1004 NM	49-124
Nickel	49.89	22.73	65.10	67	34-148
Zinc	382.2	22.73	374.5	-34 NM	25-159

Type: MSD Analyzed: 05/21/09
Lab ID: QC496948

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	22.52	20.93	88	63-120	0	20
Chromium	22.52	81.20	73	52-128	9	25
Lead	22.52	296.8	154 NM	49-124	NC	31
Nickel	22.52	64.60	65	34-148	0	30
Zinc	22.52	510.4 >LR	569 NM	25-159	NC	33

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

Curtis & Tompkins, Ltd.

Dissolved California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1148.001.03	Analysis:	EPA 6010B
Field ID:	UST-GW1	Batch#:	151223
Matrix:	Filtrate	Sampled:	05/20/09
Units:	ug/L	Received:	05/20/09
Diln Fac:	1.000	Prepared:	05/20/09

Type: SAMPLE
Lab ID: 212270-003
Analyzed: 05/21/09

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	5.0
Lead	ND	3.0
Nickel	9.4	5.0
Zinc	140	20

Type: BLANK
Lab ID: QC496888
Analyzed: 05/20/09

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	5.0
Lead	ND	3.0
Nickel	ND	5.0
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

5.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1148.001.03	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	151223
Units:	ug/L	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/20/09

Type: BS Lab ID: QC496889

Analyte	Spiked	Result	%REC	Limits
Cadmium	50.00	48.44	97	80-120
Chromium	200.0	191.7	96	80-120
Lead	100.0	98.41	98	80-120
Nickel	500.0	466.3	93	80-120
Zinc	500.0	480.4	96	80-120

Type: BSD Lab ID: QC496890

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	50.00	49.44	99	80-120	2	20
Chromium	200.0	195.8	98	80-120	2	20
Lead	100.0	99.64	100	80-120	1	20
Nickel	500.0	476.0	95	80-120	2	20
Zinc	500.0	485.6	97	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California LUFT Metals

Lab #:	212270	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1148.001.03	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	151223
MSS Lab ID:	212156-001	Sampled:	05/14/09
Matrix:	Water	Received:	05/14/09
Units:	ug/L	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/20/09

Type: MS Lab ID: QC496891

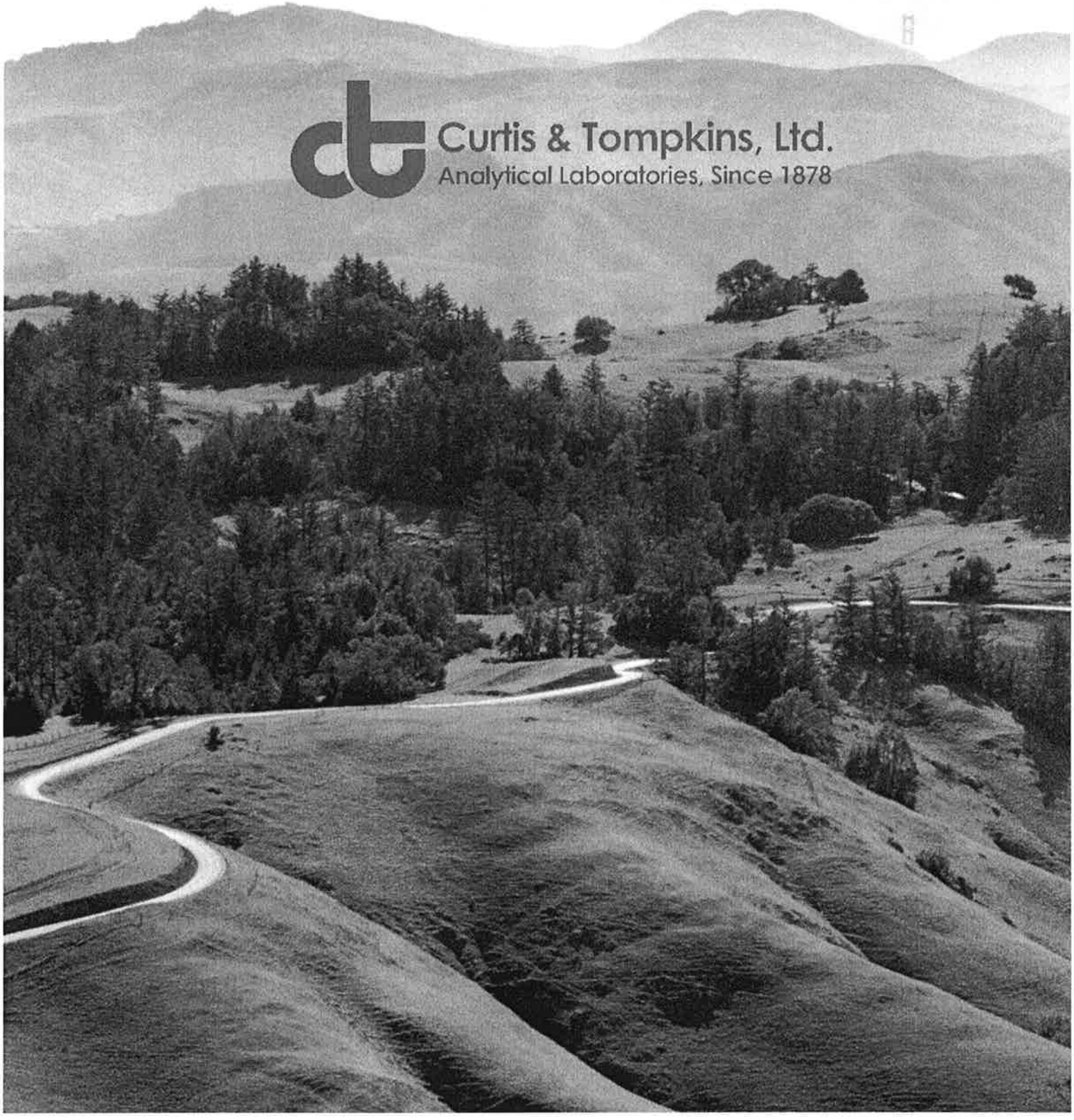
Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	<0.3309	50.00	50.08	100	78-120
Chromium	2.854	200.0	194.3	96	76-120
Lead	1.365	100.0	99.04	98	68-120
Nickel	<0.2313	500.0	470.3	94	72-120
Zinc	4.461	500.0	514.1	102	73-121

Type: MSD Lab ID: QC496892

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	50.00	44.10	88	78-120	13	20
Chromium	200.0	171.8	84	76-120	12	20
Lead	100.0	92.28	91	68-120	7	20
Nickel	500.0	414.9	83	72-120	13	20
Zinc	500.0	442.4	88	73-121	15	20

RPD= Relative Percent Difference

UST Soil Stockpile Results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Analytical Laboratories, Since 1878

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 212269
ANALYTICAL REPORT

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

Sample ID	Lab ID
UST-SP-COMP	212269-001

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: _____ Date: 05/27/2009
Project Manager

Signature: _____ Date: 05/28/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**212269**
Client:	**PES Environmental, Inc.**
Project:	**1148.001.03**
Location:	**4700 Coliseum Way Site, Oakland**
Request Date:	**05/20/09**
Samples Received:	**05/20/09**

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 05/20/09. The sample was received on ice 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):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

212269

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

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

LABORATORY: Curtis & Tompkins
SAMPLERS: M. Rizo
JOB NUMBER: 1148.001.03
NAME / LOCATION: 4700 Coliseum Way S. Site / Oakland
PROJECT MANAGER: Kyle Flory
RECORDER: M. Rizo

DATE				SAMPLE NUMBER / DESIGNATION	MATRIX				# of Containers & Preservatives					DEPTH IN FEET	ANALYSIS REQUESTED																
YR	MO	DY	TIME		Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H_2SO_4	HNO_3	HCl		EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M *	TPHmo by 8015M *	EPA 8270C	MNA Parameters (see notes)	LUFT Metals by 6010B	BTEX by 8260B	Fuel Oxygenates w/ MTBE by 8260B						
1 09	05	20	14:05	UST-SP-Comp			X		1									X	X	X			X	X	X						

NOTES

Turn Around Time: 24-Hour TAT
* w/ Silica Gel Clean-up
Please send Copy of Chain-of-Custody to Kyle Flory at KFlory@pesenv.com upon receipt.

Page 3 of 20

samples intact / on ice

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	5/20/09	1400
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	5/20/09	1445
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)		

METHOD OF SHIPMENT: Dropped off at Lab

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

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 212269 Date Received 5/20/09 Number of coolers 1
Client PES Project 4700 COLISEUM WAY SITE

Date Opened 5/20/09 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
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) _____

☐ Bubble Wrap ☑ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None 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 NO
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are samples in the appropriate containers for indicated tests? _____ YES NO
11. Are sample labels present, in good condition and complete? _____ YES NO
12. Do the sample labels agree with custody papers? _____ YES NO
13. Was sufficient amount of sample sent for tests requested? _____ YES NO
14. Are the samples appropriately preserved? _____ YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	UST-SP-COMP	Batch#:	151214
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09
Diln Fac:	1.000		

Type: SAMPLE Lab ID: 212269-001

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	54-152
Bromofluorobenzene (FID)	83	50-152

Type: BLANK Lab ID: QC496850

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	81	54-152
Bromofluorobenzene (FID)	73	50-152

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC496851	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151214
Units:	mg/Kg	Analyzed:	05/20/09

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.303	106	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	54-152
Bromofluorobenzene (FID)	96	50-152

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	212062-024	Batch#:	151214
Matrix:	Soil	Sampled:	05/08/09
Units:	mg/Kg	Received:	05/11/09
Basis:	as received	Analyzed:	05/20/09

Type: MS Lab ID: QC496852

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1690	10.75	9.780	89	31-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	54-152
Bromofluorobenzene (FID)	106	50-152

Type: MSD Lab ID: QC496853

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	9.047	85	31-120	5	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	54-152
Bromofluorobenzene (FID)	101	50-152

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	UST-SP-COMP	Batch#:	151224
Matrix:	Soil	Sampled:	05/20/09
Units:	mg/Kg	Received:	05/20/09
Basis:	as received	Prepared:	05/20/09
Diln Fac:	1.000	Analyzed:	05/21/09

Type: SAMPLE
Lab ID: 212269-001

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	29 Y	0.99
Motor Oil C24-C36	210	5.0

Surrogate	%REC	Limits
o-Terphenyl	82	53-133

Type: BLANK
Lab ID: QC496895

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	110	53-133

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC496896	Batch#:	151224
Matrix:	Soil	Prepared:	05/20/09
Units:	mg/Kg	Analyzed:	05/21/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	35.54	71	52-128

Surrogate	%REC	Limits
o-Terphenyl	82	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1148.001.03	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	151224
MSS Lab ID:	212268-002	Sampled:	05/20/09
Matrix:	Soil	Received:	05/20/09
Units:	mg/Kg	Prepared:	05/20/09
Basis:	as received	Analyzed:	05/21/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC496897

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.9792	49.82	41.17	81	33-145

Surrogate	%REC	Limits
o-Terphenyl	91	53-133

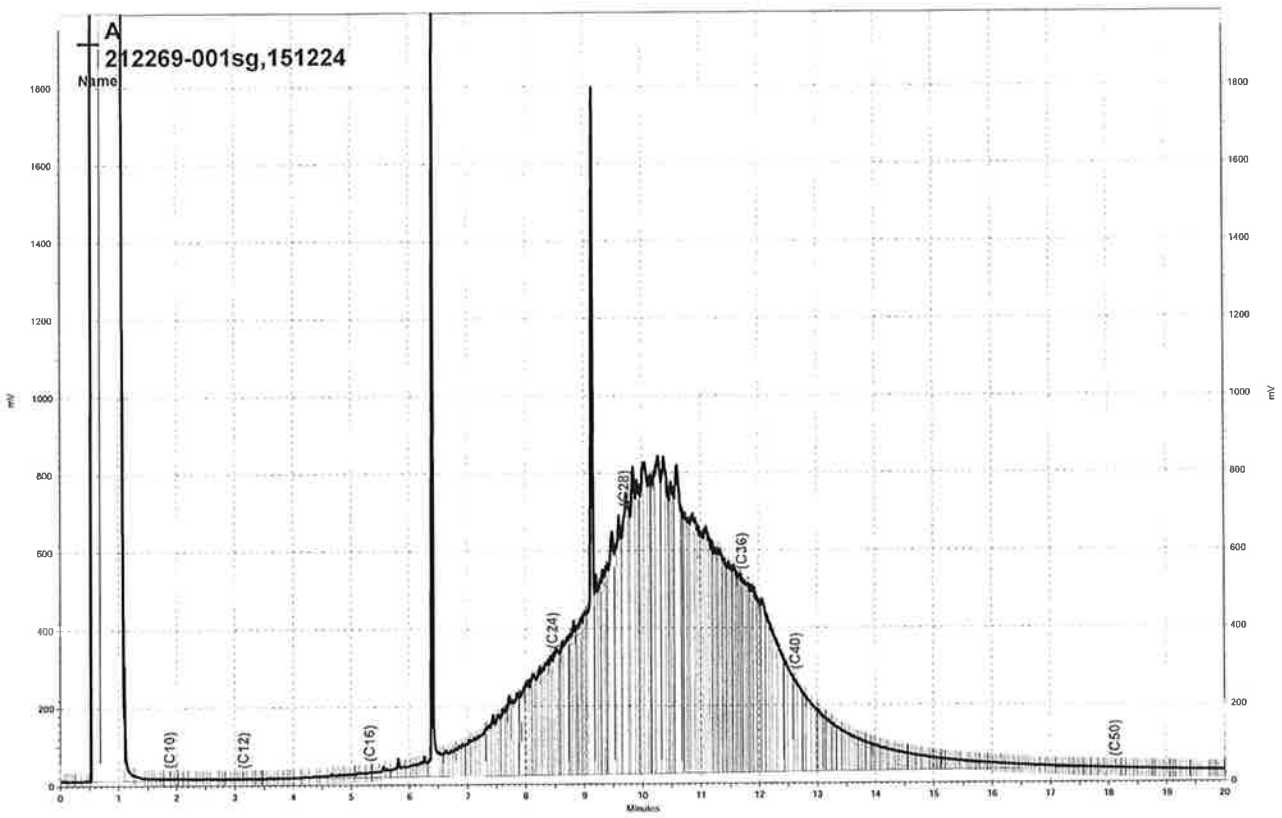
Type: MSD
Lab ID: QC496898

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.03	44.61	87	33-145	8	44

Surrogate	%REC	Limits
o-Terphenyl	98	53-133

RPD= Relative Percent Difference



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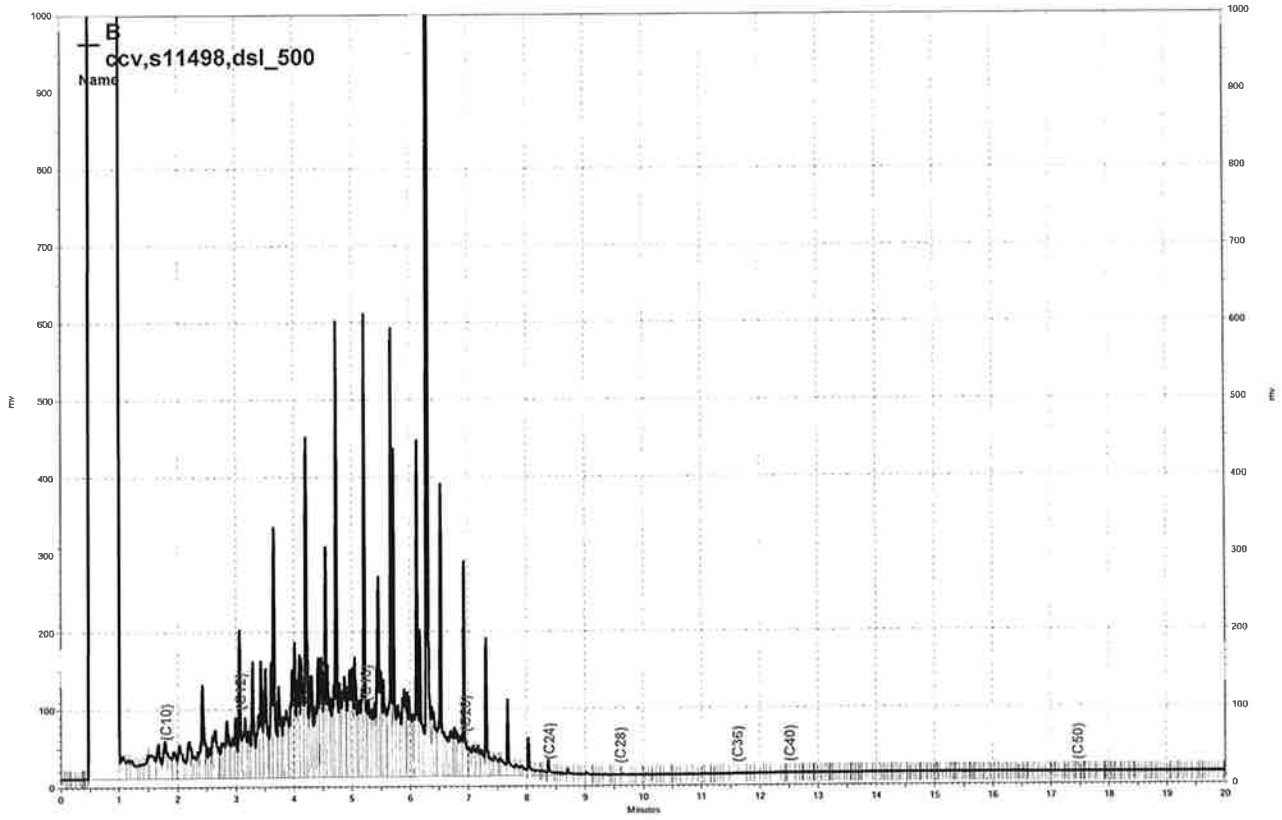

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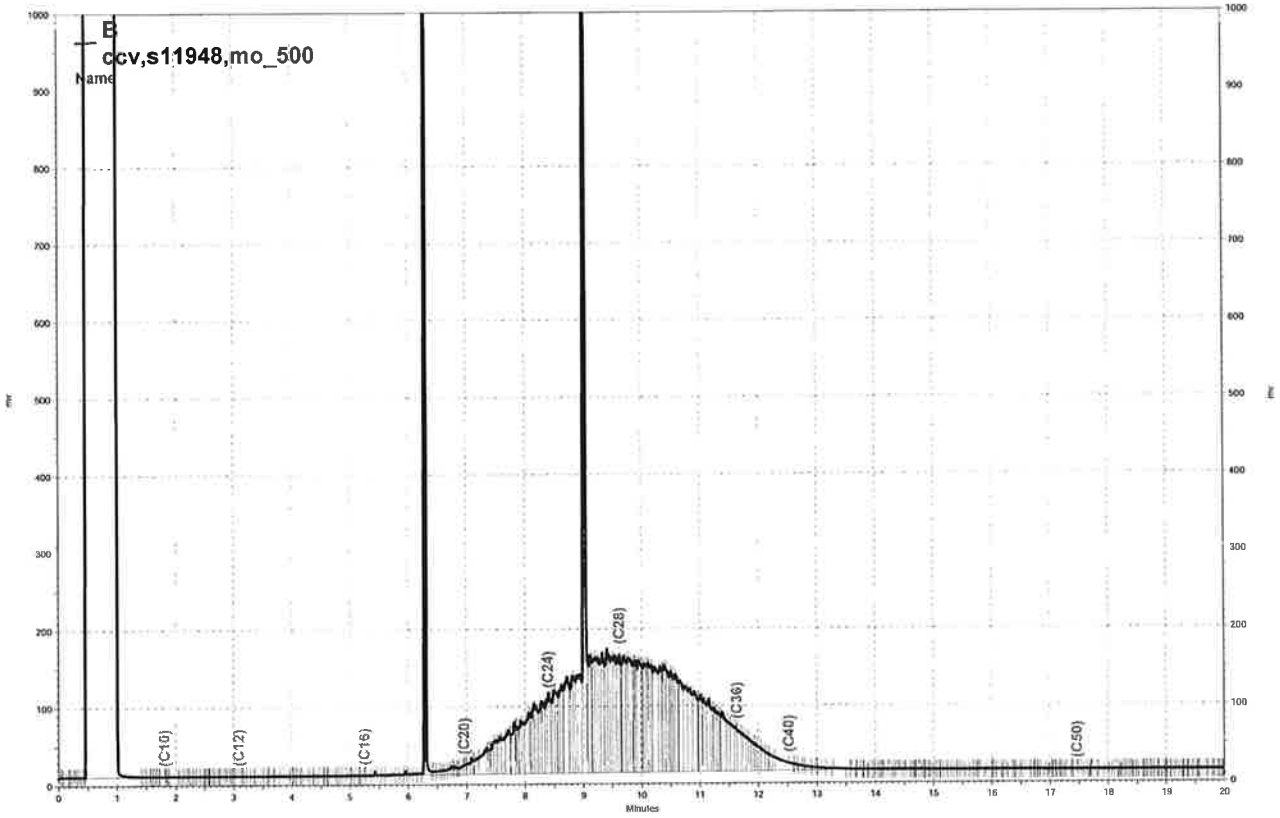

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Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	UST-SP-COMP	Diln Fac:	0.9940
Lab ID:	212269-001	Batch#:	151192
Matrix:	Soil	Sampled:	05/20/09
Units:	ug/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	99
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	91	71-128
1,2-Dichloroethane-d4	101	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	100	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212269	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:	QC496748	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151192
Units:	ug/Kg	Analyzed:	05/20/09

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	103	69-135
Toluene-d8	113	80-120
Bromofluorobenzene	101	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212269	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#:	151192
Basis:	as received	Analyzed:	05/20/09

Type: BS Lab ID: QC496749

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	87.27	70	56-140
MTBE	25.00	21.06	84	66-129
Isopropyl Ether (DIPE)	25.00	20.98	84	65-131
Ethyl tert-Butyl Ether (ETBE)	25.00	21.28	85	66-132
1,2-Dichloroethane	25.00	24.14	97	70-128
Benzene	25.00	26.40	106	80-125
Methyl tert-Amyl Ether (TAME)	25.00	22.70	91	75-128
Toluene	25.00	25.56	102	80-126
1,2-Dibromoethane	25.00	24.35	97	80-122
Ethylbenzene	25.00	26.00	104	80-127
m,p-Xylenes	50.00	51.14	102	80-125
o-Xylene	25.00	25.22	101	80-122

Surrogate	%REC	Limits
Dibromofluoromethane	95	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	97	77-131

Type: BSD Lab ID: QC496750

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	111.5	89	56-140	24	26
MTBE	25.00	21.46	86	66-129	2	20
Isopropyl Ether (DIPE)	25.00	22.71	91	65-131	8	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.44	90	66-132	5	20
1,2-Dichloroethane	25.00	25.43	102	70-128	5	20
Benzene	25.00	27.73	111	80-125	5	20
Methyl tert-Amyl Ether (TAME)	25.00	24.28	97	75-128	7	20
Toluene	25.00	29.31	117	80-126	14	20
1,2-Dibromoethane	25.00	26.39	106	80-122	8	20
Ethylbenzene	25.00	28.64	115	80-127	10	20
m,p-Xylenes	50.00	57.48	115	80-125	12	20
o-Xylene	25.00	27.07	108	80-122	7	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	103	80-120
Bromofluorobenzene	101	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03	Analysis:	EPA 8260B
Field ID:	UST-SP-COMP	Diln Fac:	0.9940
MSS Lab ID:	212269-001	Batch#:	151192
Matrix:	Soil	Sampled:	05/20/09
Units:	ug/Kg	Received:	05/20/09
Basis:	as received	Analyzed:	05/20/09

Type: MS Lab ID: QC496880

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<19.88	248.5	211.7	85	42-139
MTBE	<0.9940	49.70	40.25	81	53-127
Isopropyl Ether (DIPE)	<0.9940	49.70	43.24	87	49-130
Ethyl tert-Butyl Ether (ETBE)	<0.9940	49.70	41.56	84	52-130
1,2-Dichloroethane	<0.9940	49.70	48.76	98	51-124
Benzene	<0.9940	49.70	52.26	105	56-126
Methyl tert-Amyl Ether (TAME)	<0.9940	49.70	42.40	85	58-126
Toluene	1.566	49.70	50.55	99	52-125
1,2-Dibromoethane	<0.9940	49.70	51.03	103	52-121
Ethylbenzene	<0.9940	49.70	45.62	92	48-126
m,p-Xylenes	<0.9940	99.40	90.44	91	46-125
o-Xylene	<0.9940	49.70	45.21	91	46-122

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	96	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	97	77-131

Type: MSD Lab ID: QC496881

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	248.5	209.9	84	42-139	1	36
MTBE	49.70	39.25	79	53-127	3	28
Isopropyl Ether (DIPE)	49.70	40.80	82	49-130	6	27
Ethyl tert-Butyl Ether (ETBE)	49.70	42.48	85	52-130	2	26
1,2-Dichloroethane	49.70	42.44	85	51-124	14	23
Benzene	49.70	45.43	91	56-126	14	26
Methyl tert-Amyl Ether (TAME)	49.70	44.25	89	58-126	4	25
Toluene	49.70	43.13	84	52-125	16	29
1,2-Dibromoethane	49.70	43.78	88	52-121	15	26
Ethylbenzene	49.70	39.78	80	48-126	14	29
m,p-Xylenes	99.40	75.71	76	46-125	18	30
o-Xylene	49.70	37.31	75	46-122	19	30

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-128
1,2-Dichloroethane-d4	102	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	101	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

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

Type: SAMPLE Lab ID: 212269-001

Analyte	Result	RL
Cadmium	1.0	0.25
Chromium	65	0.25
Lead	260	0.25
Nickel	50	0.25
Zinc	380	1.0

Type: BLANK Lab ID: QC496944

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	212269	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1148.001.03	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	151235
Units:	mg/Kg	Prepared:	05/20/09
Basis:	as received	Analyzed:	05/20/09
Diln Fac:	1.000		

Type: BS Lab ID: QC496945

Analyte	Spiked	Result	%REC	Limits
Cadmium	25.00	24.10	96	80-120
Chromium	25.00	23.88	96	80-120
Lead	25.00	22.09	88	80-120
Nickel	25.00	23.03	92	80-120
Zinc	25.00	23.41	94	80-120

Type: BSD Lab ID: QC496946

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	25.00	24.11	96	80-120	0	20
Chromium	25.00	23.85	95	80-120	0	20
Lead	25.00	22.27	89	80-120	1	20
Nickel	25.00	22.88	92	80-120	1	20
Zinc	25.00	23.43	94	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

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

Type: MS Analyzed: 05/20/09
Lab ID: QC496947

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.009	22.73	21.20	89	63-120
Chromium	64.82	22.73	88.88	106	52-128
Lead	262.0	22.73	490.3 >LR	1004 NM	49-124
Nickel	49.89	22.73	65.10	67	34-148
Zinc	382.2	22.73	374.5	-34 NM	25-159

Type: MSD Analyzed: 05/21/09
Lab ID: QC496948

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	22.52	20.93	88	63-120	0	20
Chromium	22.52	81.20	73	52-128	9	25
Lead	22.52	296.8	154 NM	49-124	NC	31
Nickel	22.52	64.60	65	34-148	0	30
Zinc	22.52	510.4 >LR	569 NM	25-159	NC	33

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

12.0

APPENDIX C

UST REMOVAL PERMIT

250 Frank Ogawa Plaza, Suite 3341
Oakland, CA 94612
(510) 238-3462 - VOICE
(510) 238-6739 – FAX
(510) 238-6384 – TTY/TDD

CITY OF OAKLAND
Oakland Fire Department
Fire Prevention Bureau

Fax

To: Michael Lamin **From:** Keith Mathews

Fax: 925 307 1510 **Pages:** 2

Phone: 510 376-4866 **Date:** 17 June 09

Re: 4600-4700 Colgrove Way **CC:**

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• **Comments:**

Here is the Plan review Log which is stamped and serves as your Permit for the tank Pull!

Keith Mathews
238-2396

PLAN REVIEW LOG

JOB # - P09-0796 File _____

Date Submitted
May 5, 2009
Date Assigned
May 5, 2009

Job Site
4600 Coliseum Way
4700 Coliseum Way
Oakland, CA 94621

Company Name
Marcor

Type of Plans
UGround Tank Removal

Disposition

Pick Up/Mailed Date

Resubmitted
○ Yes ◉ No
○ 1st ○ 3rd
○ 2nd ○ 4th

Resubmitted Dates
1.) _____
2.) _____
3.) _____
4.) _____

Company Phone #
510-376-4866

Reviewer
AFM LGriffin

Pick up person

Pick up person Phone #

Contact Person
Micheal Lannin

Fees Paid
Yes

Expedite/After Hours
○ Yes ○ No

Fees Paid Date
May 5, 2009

Reviewed Dates
1.) _____
2.) _____
3.) _____
4.) _____

Amount of Time

Review Complete Date

Plan Check Fees (NO inspections included)
Submittal/Resubmittal, full price for each system

			Units	Subtotal
a.	Sprinkler System/Zone	○ 445.85		
b.	Standpipe System	○ 445.85		
c.	Underground Main	○ 230.10		
d.	Fire Pump System	○ 230.10		
e.	Fire Hydrant	○ 230.10		
f.	FM 200, Halon, gas suppression system	○ 230.10		
g.	Dry chemical suppression system	○ 230.10		
h.	Spray Booth Installation	○ 230.10		
	Expedited plan check fee (a-h) min 1.5 hrs (FP Engineer)	○ 137.22		
i.	Evacuation Plans	○ 230.10		
j.	Fire Alarm System	○ 445.85		
k.	Range Hood & Duct Suppression System	○ 230.10		
	Expedited plan check fee (i-j) min 1.5 hrs (Fire Inspector)	○ 110.69		

Inspection Fees

a.	Initial inspection, $484.07/instance	○ 484.07	
b.	Reinspection, $121.02/hour	○ 121.02	
c.	After hours inspection, $110.69/hr; 2.5 hour minimum	○ 110.69	

Tank Permit Fees/CUPA

a.	Removal, 1st Tank $445.85 & Inspection $242.04	○ 687.89	
	$140.12 each additional tank	○ 140.12	
b.	Installation, 1st Tank $445.85 & Inspection $484.07	○ 929.92	
	$140.12 each additional tank	○ 140.12	
c.	Modifications: Underground Tank Removal	○ 121.02	

Other Fees

	Consultation Fee / FP Engineer time ($91.61/hr)	○ 230.25	
☐	Building Permit Fire Code Review - 65% of Building Permit Cost:		

Total Cost

Paid
5-19-09

Comments

05/05/09 - Gary Grimes submitting Underground Tank Removal (1) plans for review. Fees plan review $576.58 ($230.63/hour x 2.5 hours minimum) plus inspection $142.37/hour x 1 hour minimum = $718.95.-jat

Mailing Address

Marcor
6644 Sierra Lane
Dublin CA 94568

Date:	Check #	Amount Received:
5/5/2009	fees due	$718.95
5/5/2009	03003080	-$718.95

Total Amount Received: $0.00

Total Amount Due: $0.00

Billing Invoice Date:

Updated 3/31/08

APPENDIX D

RESULTS OF COMPACTION TESTING

ENGEO INCORPORATED

GEOTECHNICAL
ENVIRONMENTAL
WATER RESOURCES
CONSTRUCTION SERVICES

Project No.
8706.000.000

May 27, 2009

Mr. Mike Lanning
Marcor
6644 Sierra Lane
Dublin, CA 94568

Subject: 4700 Coliseum Way
Oakland, California

RESULTS OF COMPACTION TESTING

Dear Mr. Lanning:

At your request, ENGEO Incorporated provided compaction testing services during the backfill of an excavation at the subject location. The purpose of our services was to confirm that the upper 2 feet of the excavation was compacted to a relative compaction of above 90 percent of maximum dry density.

Laboratory testing was performed to evaluate the compaction characteristics of the native material. This testing was performed in accordance with the ASTM D-1557 laboratory compaction test procedure, which provides the maximum dry density and optimum moisture content of the various site soils. The laboratory compaction test results utilized for this site is attached and summarized below.

Test No.	Source and Description	Density PCF	Moisture % Dry Wt.
2	Very dark brown clayey sand to sandy clay with gravel	138.9	7.3

Field testing of the fill was conducted using ASTM D-2922 ["Test Methods for Density of Soil and Soil-Aggregate In-place by Nuclear Methods (Shallow Depth)"] test procedures. Test locations and elevations were determined by estimating from existing site improvements. A summary of the moisture-density tests for the subject site is provided in the table below.

Test No.	Date	Test Location	Elev Ft.	Dry Density P.C.F.	Moisture Content %	Relative Compaction % of Max. Dry Density	Lab Curve Test No. (Table I)
1	5/22/09	Backfill of UST south west area	-2	121.3	8.9	87	2
2	5/22/09	Retest of test 1	-2	131	11.1	94	2

Test No.	Date	Test Location	Elev Ft.	Dry Density P.C.F.	Moisture Content %	Relative Compaction % of Max. Dry Density	Lab Curve Test No. (Table I)
2	5/22/09	Retest of test 1	-2	131	11.1	94	2
3	5/22/09	Backfill of UST south east area	-1	126.0	12.2	91	2
4	5/22/09	Backfill of UST north east area	Finished Grade	132.8	9.9	96	2
5	5/22/09	Backfill of UST north west area	Finished Grade	134.4	9.7	97	2

If you have any questions regarding the contents of this letter, please do not hesitate to contact us.

Very truly yours,

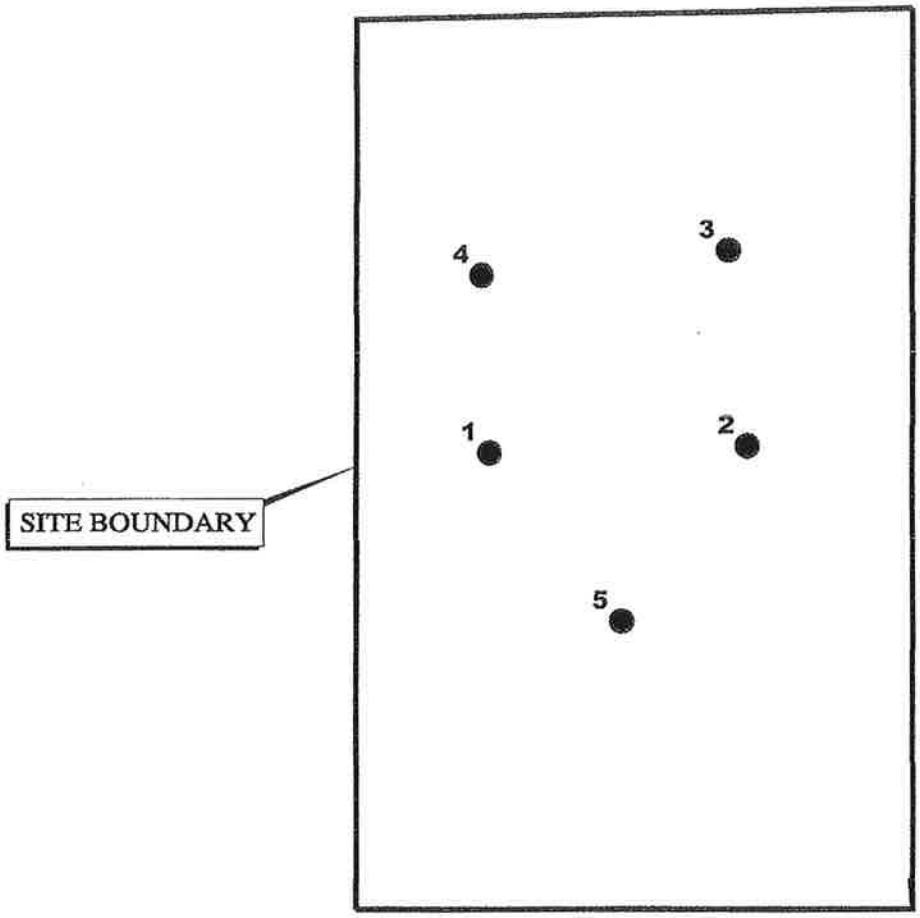
ENGEO Incorporated

Steve Harris, GE

Josef J. Tootle, GE

REGISTERED PROFESSIONAL ENGINEER
JOSEF TOOTLE
No. 2677
Exp. 6/30/2010
GEOTECHNICAL
STATE OF CALIFORNIA

Attachments: Site Plan
Laboratory Results



EXPLANATION

5 APPROXIMATE LOCATION OF COMPACTION TEST

0 FEET 3

0 METERS 1.5

ENGEO
Expect Excellence

COMPACTION TEST LOCATIONS
4700 COLISEUM WAY
OAKLAND, CALIFORNIA

PROJECT NO.: 8706.000.000		FIGURE NO. 1
DATE: MAY 2009		
DRAWN BY: PC	CHECKED BY: JT	

C:\Drafting\DRAFTING2_Dwg\8706\000\8706000000-1-CompactionTest-Oakland-0508.dwg 5-28-09 10:04:30 AM pcrockett

COMPACTION TEST REPORT

Curve No.: 2

Project No.: 8706.000.000 **Date:** 05/22/09

Project: 4700 Coliseum Way

Location:

Elev./Depth: **Sample No.** 2

Remarks: On-site material

MATERIAL DESCRIPTION

Description: Very dark brown clayey SAND to sandy CLAY with gravel.

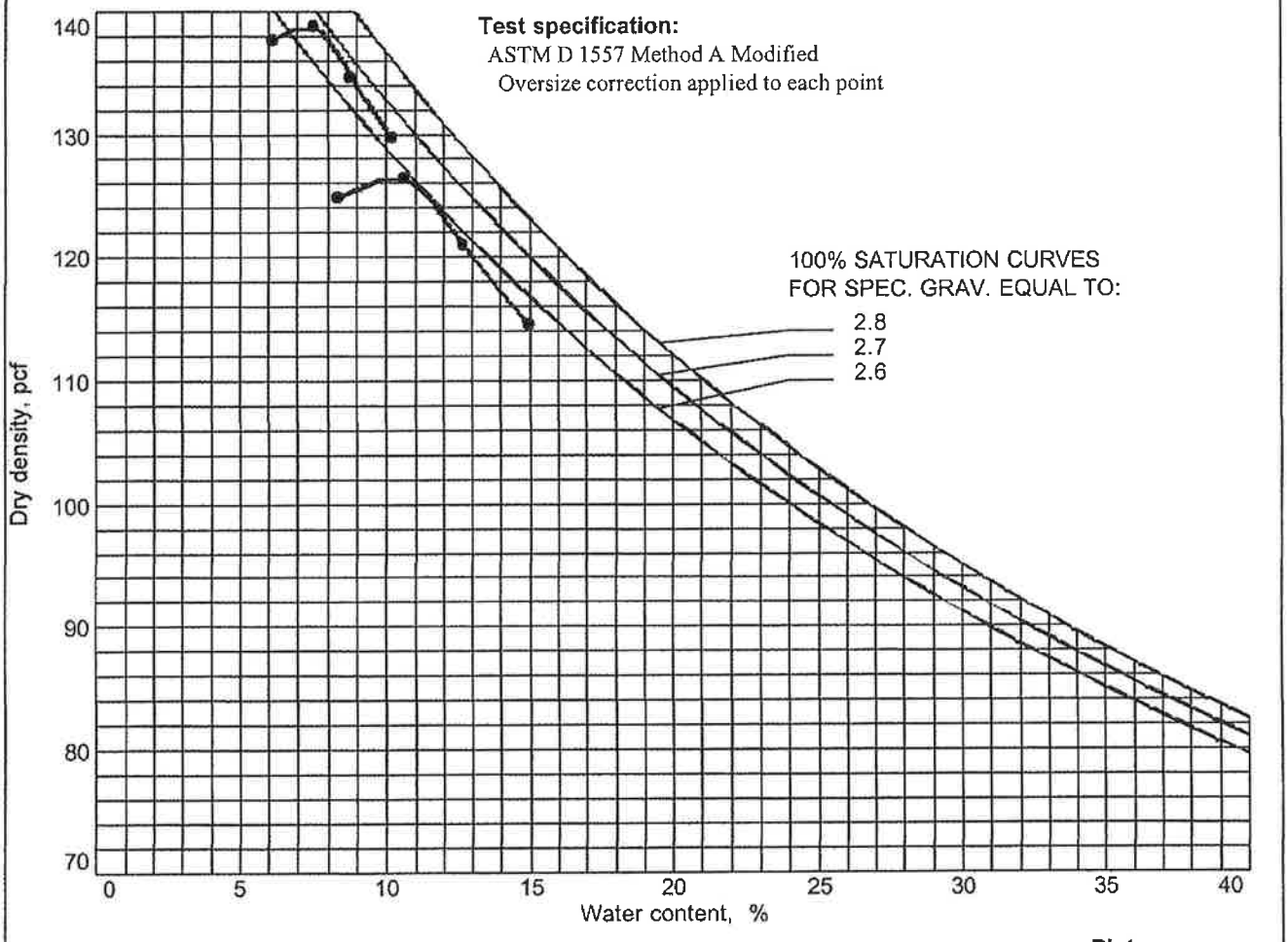
Classifications - **USCS:** **AASHTO:**

Nat. Moist. = **Sp.G. =**

Liquid Limit = **Plasticity Index =**

% > No.4 = 38.7 % **% < No.200 =** 45.1 %

ROCK CORRECTED TEST RESULTS	UNCORRECTED
Maximum dry density = 138.9 pcf	126.6 pcf
Optimum moisture = 7.3 %	10.3 %



Plate

ENGEO, INC.

APPENDIX E

UNDERGROUND STORAGE TANK AND LIQUID DISPOSAL INFORMATION

TANK DISPOSAL

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAC002841362	1	800-888-8501	005073085 JJK

GENERATOR

5. Generator's Name and Mailing Address
JOHN WEBER
555 CALIFORNIA ST, FLOOR 10
SAN FRANCISCO, CA 94104
Generator's Phone: 415-889-1800-GARY T

Generator's Site Address (if different than mailing address)
4700 COLISEUM WAY
OAKLAND, CA 94601 USA

6. Transporter 1 Company Name
MARCOR Remediation, Inc., 6644 SIERRA LN., DUBLIN, CA 94568
U.S. EPA ID Number
MDR000013854

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EGI- ECOLOGY CONTROL INDUSTRIES
255 PARR BLVD
RICHMOND, CA 94801
Facility's Phone: 800-788-1393
U.S. EPA ID Number
CAD009466302

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE SOLID. WASTE EMPTY STORAGE TANK.	001	TP	1000	P	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
QTY: 1, EMPTY STORAGE TANK: #33914, TANK JOB #52T3880
TANK HAS BEEN INERTED WITH 15 LBS. DRY ICE PER 1000 GALLON CAPACITY.
KEEP AWAY FROM SOURCES OF IGNITION. ALWAYS WEAR HARDHATS WHEN WORKING AROUND U.G.S.T.'s

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: John E. Weber
Signature: John E. Weber
Month: 5 Day: 20 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Frank Balduzo
Signature:
Month: 5 Day: 20 Year: 09

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: James Wilcox
Signature: James Wilcox
Month: 05 Day: 20 Year: 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Tank Processing JOB #: 52T3880

TANK CERIFICATION

********** PART 1 – To be completed by the Customer**********

CUSTOMER: MARCOR Remediation Inc. GENERATOR: JOHN WEBER State Waste Codes: 512

LOCATION: 4700 COLISEUM OAKLAND, CA EPA I.D.#: CAC002641362 EPA Waste Codes: ____

☒ None

TRANSPORTER: MARCOR MANIFEST #: ____ ☐ See Attached

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6
TANK #:	* 33914					
CAPACITY:	1000					
DIAMETER:	4'					
LENGTH:	12'					
STEEL/GLASS:	S					
LAST CONTAINED:	LG					

LG = Leaded Gas, UG = Unleaded Gas, D = Diesel, UO = Used Oil, FO = Fuel Oil
Specify the material Last Contained if other than above.

LAND DISPOSAL RESTRICTION NOTIFICATION FORM

The waste represented on this manifest is not generated by a chemical manufacturing plant, coke-by product recovery plant of petroleum refinery. As such, it is not regulated under 40 CFR Part 61, Subpart FF (NESHAPS for Benzene Operations).

____Pursuant to 40 CFR 268.7 I am notifying Ecology Control Industries that the material described by the above manifest is a nonwastewater, Non-RCRA solid hazardous waste and not currently subject to EPA Land Disposal Restrictions.

✓ Pursuant to CCR 22 66268.7 I am notifying Ecology Control Industries that the material described by the manifest is a metal containing Non-RCRA solid hazardous waste (662683.29(g)), and an organics containing Non-RCRA solid hazardous waste (66268.29(k)). The treatment standards for these wastes have been repealed. This waste is no longer subject to land disposal restrictions.

I am an authorized agent/representative of the generator. I certify that all information submitted in this and associated documents is complete and accurate to the best of my knowledge. The tanks on the transport equipment have been numbered to correspond with the information provided above. In the event that the tanks do not correspond to the form, I will pay any and all costs incurred in rectifying the discrepancy(ies) between the tank(s) and the form. In the event that the tank(s) contain excessive solids or liquids, I agree to pay the cost of preparation, transportation and disposal/recycling of the excess material according to the schedule of charges in effect at the time of receipt of the tank(s). Further, I will not hold Ecology Control Industries responsible for any damage to tanks which occurs after the tanks are removed from the ground.

AUTHORIZED REPRESENTATIVE

SIGNATURE: Emil Cowart DATE: 5/19/09

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801
Phone # 510-235-1393

CUSTOMER: MARCOR REMEDIATION **JOB NO:** 52T3880

GENERATOR: JOHN WEBER
4700 COLOSEUM WAY, OAKLAND, CA, 94601

FOR: ECOLOGY CONTROL INDUSTRIES **TANK NO.:** 33914

LOCATION: RICHMOND **DATE:** 05/21/09

LAST PRODUCT: LEADED GAS **TEST METHOD:** VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE : 1,000 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

James Wilcox
REPRESENTATIVE TITLE INSPECTOR

LIQUID DISPOSAL

Evergreen Oil Inc.
2355 MAIN ST
SUITE 230
IRVINE CA 92614
Phone: (949) 757-7770
Fax: (949) 474-9149

Invoice	INV0417331
Date	5/23/2009
Page	1
BOL #	508298

Customer: MARE14

Bill To:

MARCOR REMEDIATION
6644 SIERRA LANE
DUBLIN CA 94568

RECEIVED
MAY 2 8 2009
MARCOR Remediation - SF

Ship To:

MARCOR REMEDIATION
4600-4700 COLISEUM WAY
OAKLAND CA 94601

Ship Via	P O Number	Salesperson	Payment Terms	Driver	Order Number	Route	Ship Date	Manifest No.
		130	Time of Service	POWELL		1	5/19/2009	NH6303

Ordered	Shipped	B/O	Item Number	Description	Discount	Unit Price	Ext. Price
875.00	875.00	0.00	WATERNONHAZ	NON-HAZ WATER COLLECTION SVC			
1	1	0	WASHOUT	WASHOUT FEE			
5.00	5.00	0.00	TRKTIM	HOURLY LABOR/TRANSPORTATION			

Remit To: Evergreen Oil Inc
Dept LA 23234
Pasadena, CA 91185-3234

Evergreen Environmental Services

dedicated to the protection of the environment

WORK ORDER/SERVICE AGREEMENT

№ 508298

5445

To schedule a pickup, call
800-596-9455

6880 Smith Ave., Newark, CA EPA# CAD982413262
16540 S. San Pedro St., Carson, CA EPA# CAD982413262

Send payment to:
Evergreen Oil, Inc.
P.O. BOX 30517
Los Angeles, CA 90030-0517

Sales Order # _____

Date: 5/19/09

GENERATOR/JOB LOCATION	BILLING INFORMATION	
NAME JOHN WEBER	NAME	CASH ☐ CHECK ☐ #
ADDRESS 4600-4700 Coliseum Wy	ADDRESS	CUSTOMER CODE NO.
CITY OAKLAND STATE CA ZIP 94601 CO.	CITY STATE ZIP CO.	PO #
PHONE NO. (510) 376-4866	PHONE NO. ( ) PROFILE NO.	CUSTOMER EPA ID NO.

PRODUCT	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Used oil, Non-RCRA Hazardous Lubricating	CA221			Gal.		
Waste, Liquid Industrial	CA221			Gal.		
Used Automotive Antifreeze, Non-RCRA Hazardous Waste Liquid	CA134			Gal.		
RQ Waste Combustible Liquid, N.O.S. NA 1993 III (Oil contaminated with halogens)	CA221 F001/F002			Gal.		
Oil & Water, Non-RCRA Hazardous Waste Liquid	CA221			Gal.		
Waste Solids and Sludges				Gal.		
Wash Out			1	Each		
Drained Used Oil Filters				Drum		
Non-RCRA Hazardous Waste Solids (oily debris)	CA223			Drum		
Empty Drums				Drum		
Transportation			5	Hrs.		
Non Hazardous Water		NH6303	875	Gal.		
Glycol Bulk 50/50				Gal.		
Glycol Bulk Conc.				Gal.		
TEST: ☐ Clor D Tech 4000 ____ ppm ☐ Clor D Tech 1000 ☐ Pass ☐ Fail ☐ Halogen Detector/Flame Test ☐ Pass ☐ Fail						
Field Service Work Description:						Total Charges
Other:						
Other:						
Vacuum Services Time						
Out of Yard ____ On Site ____ Off Site ____ Off Load Start ____ Off Load End ____ Return to Yard ____						Contract

TSDF

☐ **Consolidated Manifest**

☐ Evergreen Oil, Inc.
6880 Smith Ave.
Newark, CA 94560
CAD980887418

☐ Evergreen Env. Svc.
Road 30B
Davis, CA 95616
CAD982446874

☐ Evergreen Env. Svc.
4139 N. Valentine
Fresno, CA 93722
CAD982446882

☐ AJS Filter
15131 Clark Ave.
Industry, CA 91745
CAD000097432

☐ _____

☐ Evergreen Env. Svc.
16604 S. San Pedro
Carson, CA 90746
CAD981696420

☐ Evergreen Env. Svc.
745 A West Betteravia
Santa Maria, CA 93454
CAD982446858

☐ CFR
944 E. Slauson Ave.
Los Angeles, CA 90011
CAL000110021

☐ CFR
33210 Western
Union City, CA 94587
CAL000091507

☐ Greenleaf Env. Svc.
3474 Toyon Circle
Valley Springs, CA 95352
CAL000214411

Source: ☐ Collection Station ☐ Government ☐ Marine ☐ Agricultural ☐ Industrial

Generator certifies that it has established a program to reduce the volume or quantity & toxicity of the hazardous waste to the degree determined by generator to be economically practicable.

I hereby certify that I have read and have the authority to bind the above listed generator to the terms on the reverse side of this form.

Retain sample # _____

IMPORTANT NOTICE REGARDING THE DISPOSITION OF YOUR OIL.

Per California Health and Safety Code Section 25250.9, Evergreen hereby advises customer that customer's shipment of used oil may be transported to a facility that is required to comply with federal regulations applicable to management of used oil, but that is not required to comply with the more stringent requirements applicable to hazardous waste management facilities. California facilities that handle or process used oil are required to meet those more stringent requirements, and some out-of-state facilities that process used oil also meet those requirements. These include more stringent leak detection and prevention requirements, engineering certifications of tank integrity, and financial assurances for closure and accidental releases. It is lawful to send used oil to out-of-state facilities that comply only with federal used oil management standards and not these more stringent requirements. This notification is for information purposes only.

_____ 5-19-09 _____

Certificate of Recycling

Dear Valued Customer:

Evergreen certifies that the **used oil, used antifreeze, oily water,** and **used oil filters** collected from your facility were fully recycled in accordance with all applicable state and federal regulations.

Evergreen Environmental Services also provides emergency spill response: vacuum cleaning of tanks, clarifiers, and sumps; transportation of hazardous waste, steam cleaning, management of oily solids, and treatment of non-hazardous wastewater.

For more information regarding the services Evergreen provides, please call:

1-800-972-5284

We appreciate your business!

This certificate also serves as notification, as required by Title 22, Section 66264.12, that Evergreen Oil, Inc. has the appropriate permits for, and will accept the wastes manifested to Evergreen facilities.

"dedicated to the protection of the environment"

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number:

2. Page 1 of 1

3. Emergency Response Phone: 800-888-9501

4. Waste Tracking Number: M22052901

GENERATOR

5. Generator's Name and Mailing Address
JOHN WEBER
555 CALIFORNIA ST, FLOOR 10
SAN FRANCISCO, CA 94104
Generator's Phone: 415-888-1800-GARY

Generator's Site Address (if different than mailing address)
4700 COLISEUM WAY
OAKLAND, CA. 94601 USA

6. Transporter 1 Company Name
MARCOR Remediation, Inc., 6644 SIERRA LN., DUBLIN, CA 94568
U.S. EPA ID Number: MDR000013854

7. Transporter 2 Company Name
Environmental logistics Inc
U.S. EPA ID Number: CAR000172478

8. Designated Facility Name and Site Address
CROSBY & OVERTON
1630 W 17TH ST
LONG BEACH, CA 90813
Facility's Phone: 800-827-8729
U.S. EPA ID Number: CAD028409019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	
1.	Non-Hazardous Waste Liquid	2	DM	918	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile #71714, Ground Water with trace gasoline. JOB 22-05445-001
Tyvex, goggles and gloves recommended.

D13409

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Michael Lanning
Signature:
Month 5 Day 29 Year 09

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Roberto Hermosa
Signature:
Month Day Year
Transporter 2 Printed/Typed Name: Lesi M. Rebe
Signature:
Month 6 Day 1 Year 09

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Laura Christenson
Signature:
Month 06 Day 09 Year 09

169-BLC-O 6 10498 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

Crosby & Overton, Inc.
Environmental Services
1610 W 17th STREET • Long Beach, CA 90813
(562) 432-5445 FAX (562) 436-7540

NO.

C & O Inv. # _____

TSD FACILITY RECEIPT

Salesperson _____

CUSTOMER: marcor remediation. DATE: 6 | 4 | 09

CUSTOMER No.: _____ P.O. No.: _____ JOB No.: D13409

☐ STANDARD ☐ BID PRICE: _____ ☐ PARTIAL BILLING

GENERATOR: John Weber

EPA ID: | | | | | | | | | | | | MANIFEST No.: M220524901

DESCRIPTION: 1) N/H, Liq

CODE

LAB PACK: ~~1)~~ 2 X 55 DRUMS @ $

LAB PACK: _____ DRUMS @ $

LAB PACK: _____ DRUMS @ $

LAB PACK: PBL DRUMS @ $

LAB PACK: _____ DRUMS @ $

LAB PACK: _____ DRUMS @ $

LAB PACK: _____ DRUMS @ $

LAB PACK: _____ DRUMS @ $

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LAB PACK: _____ DRUMS @ $

LAB PACK: _____ DRUMS @ $

TRANSPORTER: marcor remediation R

WHITE - TSD Facility Copy BLUE - Accounting Copy

DISTRIBUTION

UNDERGROUND STORAGE TANK REMOVAL REPORT
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

JULY 1, 2009

COPY NO. ____

		Copy No.
3 Copies	Mr. John Weber P.O. Box 304 Diablo, California 94528	1 - 3
1 Copy	City of Oakland Fire Department 250 Frank H. Ogawa Plaza, Suite 3341 Oakland, California 94612 Attention: Mr. Keith L. Matthews	4
1 Copy	Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502 Attention: Mr. Jerry Wickham	5
3 Copies	PES Job Files	6 - 8
1 Copy	Unbound Original	9