Corrective Action Plan with Additional Investigation and Groundwater Sampling Report for 2942 San Pablo Avenue Oakland, California

### **Performed For:**

Mr. James Chung San Pablo Auto Body 2926 San Pablo Avenue Oakland, CA 94608

### **Prepared By:**

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

November 2006 Project: 6043



November 7, 2006

1330 S. Bascom Ave., Suite F San Jose, CA 95128

Tel (408) 559-1248 Fax (408) 559-1224

Mr. Jerry Wickham Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE: Corrective Action Plan with Additional Investigation and Groundwater Sampling Report for 2942 San Pablo Avenue Oakland, CA

Dear Mr. Wickham:

PIERS Environmental, Inc. (PIERS) has prepared this Corrective Action Plan (CAP) for the subject site in response to a letter from Mr. Jerry Wickham of Alameda County Environmental Health Services (ACEH) dated February 8, 2006.

This CAP is intended to follow the format of the requirements presented in the California Code of Regulations, Title 23, Article 11, Section 2725, Subsection (d) for Corrective Action Plans. The feasibility study presented in this CAP has been evaluated by taking into account historical hydrogeological and chemical analytical data. Using this data, PIERS has developed a remedial action plan. This remedial action plan is presented in a conceptual form and may require modifications prior to implementation, as additional investigative work is also proposed.

This CAP also reports the results of recent additional investigative work completed to characterize the vertical and lateral extent of volatile organic compounds (VOCs), particularly trichloroethene (TCE) and its breakdown products, and metals and cyanide at the above-referenced site. This work was proposed in PIERS "Work Plan for Additional Site Characterization" dated March 27, 2006 and PIERS "Addendum to Work Plan for Additional Site Characterization and Report of Well Survey" dated April 18, 2006. The work plan and addendum were conditionally approved by ACEH in a letter dated May 4, 2005.

The scope of investigative work included 1) obtaining drilling permits from the Alameda County Public Works Agency, 2) collecting near surface soil samples and soil vapor samples using a Geoprobe drill rig; 3) installing two additional groundwater monitoring wells; 4) collecting soil, vapor and groundwater samples; 4) submitting the soil, vapor and groundwater samples for chemical analysis; 5) data analysis and interpretation; and 6) preparation of this CAP.

Environmental "Hot-Line" (800) 559-1248

### SITE DESCRIPTION AND BACKGROUND

The Property is located on the eastern side of San Pablo Avenue, at the intersection with 30<sup>th</sup> Street, in the City of Oakland, Alameda County, California (see Figure 1). Previous historical research for the Property completed during a Phase I Environmental Site Assessment (ESA) indicated that a metal plating works operated on the eastern portion of the site, and a fuel dispenser island was located on the western portion of the site, near San Pablo Avenue. PIERS recommended that exploratory soil borings should be installed in the vicinities of the plating works and the fuel dispenser island. This research, and the initial soil and groundwater sampling completed based on those findings, is summarized in PIERS' ESA dated May 2003.

A previous environmental report entitled "Soil/Environmental Report, 2942 San Pablo Avenue, Oakland, California", by Globe Soil Engineers, dated November 19, 1999, had been completed for the Property. No evidence of environmental concerns was found during their investigation; however, the three exploratory soil borings installed by Globe Soil Engineers were sited without knowledge of the prior service station or plating works, and were not installed close enough to the site to pick up any compounds of concern.

Based on the initial results of soil and groundwater sampling by PIERS, two more phases of exploratory soil borings were completed. Based on the analytical results, the groundwater beneath the Property at the location of the former service station has been impacted by a release of hydrocarbons. Also, solvents, particularly TCE, were present in elevated concentrations in groundwater, and at low concentrations in soil. Based on the historical research, the solvents in soil appeared to have originated from the former metal plating works. This work was summarized in PIERS' reports entitled "Report of Additional Phase II Investigation" and "October 2003 Report of Additional Phase II Investigation" dated September 9, 2003 and October 3, 2003, respectively.

Based on those findings, a work plan entitled "Work Plan for Site Characterization" dated March 18, 2004, was prepared. The purpose of the work was to further characterize the vertical and lateral extent of volatile organic compounds (VOC), particularly trichloroethene (TCE) and its breakdown products. The work plan was reviewed and approved with revisions by Mr. Barney Chan of Alameda County Environmental Health Services (ACEH) in a letter to the Property owner, Mr. James Chung, dated March 31, 2004. Revisions to the work plan requested by Mr. Chan were summarized in PIERS' work plan addendum dated April 12, 2004. In addition, installation of three groundwater monitoring wells was proposed. The work plan addendum was subsequently verbally approved by Mr. Chan.

Following work plan approval, a cost estimate was prepared and a loan from the City of Oakland Community and Economic Development Agency (OCEDA) was obtained for the Property owner for this work.

On July 20 through 22, 2004, a Geoprobe drill rig equipped with the membrane interface probe (MIP) system was used to obtain qualitative data on total volatile organic compound (VOC) concentrations, and data on conductivity that is useful for evaluating grain size and permeability of soils. On July 22, 23, 26 and 27, 2004, additional soil borings were completed with soil and groundwater sampling, and three groundwater monitoring wells were installed. The MIP data allowed a determination of focused sampling intervals for both soil and groundwater in the borings.

The soil samples collected were primarily to characterize conditions at and near the source area, and to determine the vertical extent of soil impacts. In addition to the source area, soil samples were collected from a soil boring beneath the underground hoist and at the locations of wells MW2 and MW3. These soil samples were collected to provide additional site characterization data and to allow correlation between MIP data and laboratory analyses. The sample locations are shown on Figure 2.

This investigative work was successful in identifying a source of TCE contamination in soil. The highest concentrations in soil, which began within a few feet of the surface, correspond to an unpaved area on the eastern side of an old concrete slab from the former plating works. Initially, five soil borings had been proposed in this area. The work proceeded in an iterative manner with each new boring relocated based on previous data. Additional soil borings to those proposed were completed with both the MIP system, and with soil and groundwater sampling by Geoprobe, in an attempt to delineate this source area for possible excavation. The borings located in this area are designated as B9B through B9M. The highest concentrations and the nearest surface impacts, based on the MIP data available on site during drilling, appeared to occur in B9I, B9D, B9H, and B9G.

Three monitoring wells (MW1 through MW3) were constructed using one-inch-diameter casing with a pre-packed filter sand of #2/16 sand, and were subsequently sampled for four consecutive quarters.

This investigation identified the source of the TCE impacts in groundwater as an unpaved area just to the east of a concrete-paved area at the former metal plating works. The highest concentrations of TCE in near surface soils were found in boring B9D. The highest concentration of TCE in soil was found at boring B9I at a depth of 14 feet below grade. The TCE in the vicinity of these soil borings represents a source area that will continue to contribute to the dissolved concentrations in groundwater until the source is remediated and the surface is paved.

The primary constituent of concern (COC) in soil and groundwater at the Property is TCE and its breakdown products.

Total Petroleum Hydrocarbons (TPH) as gasoline was also detected in groundwater at the TCE source area during this investigation, in concentrations above the Environmental Screening Levels (ESLs). The highest concentration was detected at B9I at 141,000 parts per billion (ppb); however, in this and other samples the laboratory noted that this concentration was partly due to a single peak of TCE. Benzene has not been detected in any water sample collected to date above a concentration of 37 ppb (Table 2A).

Lateral migration at the Property occurs preferentially along the discontinuous layers of more permeable gravelly silt. As the depth to groundwater is approximately 15 feet below grade, there does not appear to be the potential for groundwater to encounter utilities that could act as preferential pathways.

As refusal was encountered with both the MIP sampling probe and the dual casing setup on the Geoprobe rig, the vertical extent of contamination in groundwater is not entirely defined, but appears to attenuate with depth, based on sampling at B9B and B9I at the source area.

### **RECENT FIELD ACTIVITIES – THIS INVESTIGATION**

### **INSTALLATION OF WELLS MW4 AND MW5**

On September 19, 2006, groundwater monitoring wells MW4 and MW5 were completed at the Property by Vironex, a state-licensed driller. Prior to drilling, a health and safety plan was prepared, the well locations were marked with white paint and Underground Service Alert (USA) was notified. Also, a permit was obtained from the Alameda County Department of Public Works (ACDPW). After completion of the monitoring wells, Department of Water Resources Well Drillers Reports were completed and sent to ACDPW. The well locations are shown on Figure 2. The boring logs and well construction logs are presented in Appendix C.

Both wells were completed using a Geoprobe 6600. Well MW4 was completed using a dual casing setup where sampling was performed within inner 2-1/4 inch rods that were contained in 3-1/4 inch rods. In well MW4, the first encountered abundant water zone was a slightly coarser (trace sand) silt layer between about 36.5 and 37.5 feet below grade, which coincided with the start of a dark green reducing zone. Upon completion of continuous soil sampling to approximately 41 feet below grade, a "prepack" well was installed to approximately 40 feet below grade. The prepack well consisted of one-inch-diameter casing with five feet of 2/16 sand contained within a wire mesh. The well was screened from approximately 35 to 40 feet below grade. The sand pack extended from approximately 34.5 to 40 feet below grade. A foam collar was placed over the sand pack and then a two-foot bentonite "packer" was placed over the foam collar, within the interval from approximately 32.5 to 34.5 feet below grade. The annulus from the surface to 32.5 feet below grade was filled with neat cement grout. A locking well box was placed at the surface.

Well MW5 was first continuously sampled for lithology using 2-1/4 inch diameter rods to approximately 40 feet below grade. The 3-1/4 inch rods were then inserted to the total depth and the well was constructed in the same manner as MW4. The lithologic conditions encountered were similar to those encountered in MW4.

During drilling on September 19, 2006, the depth to groundwater in wells MW1, MW2, and MW3 was measured at approximately 11.82 feet, 14.30 feet and 14.17 feet below the tops of the casings.

At MW4, TCE had previously been detected in samples above 10 feet below grade. To further delineate these impacts, soil samples were collected at approximately 13.5 feet, 17.5 feet and 22.5 feet below grade.

No odors or obvious evidence of contamination were observed during drilling of either of the wells. The soil samples selected for analyses were cut from the plastic liner retrieved from the sampling tool. The ends of the samples were covered with Teflon tape and plastic caps. The samples were labeled, entered on a chain of custody form, and placed in a cooler, on ice, prior to pickup by a laboratory courier for transport to the laboratory.

The drilling rods and tools were decontaminated prior to use. Soil generated was stored on site in 55-gallon drums prior characterization for proper disposal.

### SURFICIAL SAMPLING

On September 19 and 20, sixteen discrete soil samples were collected at approximately 0.5 feet below grade. Locations are shown on Figure 2. A few samples were collected at approximately one foot below grade where base gravels or old pavement was thick. All of the soil samples were collected using a Geoprobe, except for four samples in the "hummocky area", which were collected by using a shovel and directly filling the brass liners. The soil samples were handled as described above. No odors or obvious evidence of contamination were observed in these soil borings, except at SS3A, where an odor of hydrocarbons was detected from approximately 2 feet below grade, and therefore an additional soil sample was collected at that depth.

Brick fragments were encountered in many of the samples, and brick paving was encountered around well MW5. In addition to some brick, the samples generally consisted of silt with gravel base rock. The laboratory was instructed to perform the metals analyses on the sediment portion of the samples.

The drilling rods and tools were decontaminated prior to use. All soil borings were sealed using neat cement grout. Soil generated was stored on site in 55-gallon drums prior to characterization for proper disposal.

### SOIL VAPOR SAMPLING

On September 20, 2006, six soil vapor samples were completed at the Property in the area of former soil boring B10B and new well MW4. The soil vapor analytical data are presented in Appendix B and summarized in Table 7. The sample locations are shown on Figure 2. The soil vapor samples were collected using a Geoprobe direct push rig. An expendable drive point was advanced ahead of the drilling rods at each location to an approximate depth of 5 feet below grade. A Teflon tubing sampling line was installed into the drilling rods. The tubing was fitted with a threaded fitting that attached to a "point holder" with an O-ring to create a seal. The sampling line was capped with a vapor-tight valve. The drilling rods were then raised approximately six inches to create a void. Sampling took place after a 20 to 30-minute interval to allow conditions to equilibrate.

The soil vapor samples were collected using Summa canisters and a manifold system that allowed purging to a separate canister. After checking for air leaks, the tubing was purged of approximately three casing volumes of air and then a soil vapor sample was collected using a vacuum pump.

Hydrated bentonite was placed around the drill rods prior to sampling to halt air migration. The purging and the vapor sample collection were performed at a purge rate of between 100 and 200 milliliters per minute, using a regulator.

The drilling rods and tools were decontaminated prior to each use. All soil vapor borings were sealed using neat cement grout. Soil generated was stored on site in 55-gallon drums for proper disposal.

### MONITORING AND SAMPLING AND SURVEYING OF THE WELLS

On October 9, 2006, groundwater samples were obtained from monitoring wells MW1 through MW5 at the above-referenced site. The wells were also developed by purging, and monitored. The groundwater monitoring data is summarized n Table 1 and presented in Appendix A.

The groundwater samples were collected as follows: prior to sampling, the wells were checked for depth to water, and for the presence of free product and/or sheen. No free product or sheen was noted in any of the wells.

Each well was bailed until the volume of water withdrawn was equal to at least ten well casing volumes. To assure that a representative groundwater sample was collected, periodic measurements of the temperature, pH and specific conductance were made. The sample was collected after the temperature, pH, and/or specific conductance reached relatively constant values.

Water samples were collected using new, disposable bailers. An effort was made to minimize exposure of the samples to air. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Sample containers were obtained directly from the analytical laboratory. Sampling equipment was cleaned after its use at each sampling location. Thermometers, pH electrodes, and conductivity probes were also cleaned after sampling.

Subsequent to collection, the samples were immediately stored on ice in an appropriate ice chest. Excess water resulting from the sampling and cleaning procedures was collected and contained in pre-labeled, 55-gallon drums on-site pending receipt of laboratory analyses.

On September 26, 2006, the two new wells and three existing wells were surveyed by CSS, a licensed surveying company. The survey data is attached in Appendix D. The wells were surveyed to a new benchmark required by Geotracker, and the elevations of the tops of casings differed from previous survey data. Based on a discussion with the surveyor, it is known that there is a difference between these benchmarks and the differences between the original surveyed elevations and the new elevations is within that range.

### HYDROLOGY

On October 9, 2006, the measured depth to groundwater in the three monitoring wells varied between 12.99 feet and 14.67 feet below the tops of the well casings. The depths to groundwater in the wells MW1 through MW3 increased between approximately 2.32 feet and 2.73 feet since the last event on May 12, 2005, but are within previous seasonal fluctuation ranges. On October 9, 2006, the direction of groundwater flow at the Property was to the west at an approximate gradient of 0.024 feet per foot, generally similar to previous events. Monitoring data collected this quarter is summarized on Table 1 and Figure 3.

The elevation of groundwater in MW1 appears anomalous to the other wells, and was not used in calculating the direction of groundwater flow presented on Figure 3. However, the groundwater flow direction is unchanged when the data from MW1 is used in contouring.

The measured hydraulic gradient (0.024 feet per foot) continues to be steeper compared to typical gradients along the East Bay Plain.

### LABORATORY ANALYSES

Samples were transported under Chain-of-Custody procedures to McCampbell Analytical Laboratory in Pittsburg, CA. The soil samples from MW4 were analyzed for VOCs by EPA Method 8260. The surficial samples were analyzed for the CAM 17 metals, cyanide, and hexavalent chromium. Sample SS3Ad2 was analyzed for VOCs by EPA Method 8260 and for TPH as diesel and motor oil by EPA Method 8015. The laboratory analytical data are summarized in Tables 5A, 5B, and 6.

The soil vapor samples (SV1 through SV6) were analyzed for VOCs by Method TO-15. The analyses were performed by Air Toxics Limited in Folsom, California, which also provided the Summa canisters and manifolds used in collecting the samples. The soil vapor analytical results are summarized in Table 7.

The groundwater samples collected from the five monitoring wells were analyzed for VOCs by EPA Method 8260, TPH as gasoline by EPA Method 8015, the Cam 17 metal, hexavalent chromium (TTLC), and cyanide. The analytical results are summarized in Tables 2, 3, and 4. The groundwater samples for metals analyses were filtered in the field of sediment prior to transport to the analytical laboratory.

Copies of laboratory analytical results are presented in Appendix B.

### ANALYTICAL RESULTS – SOIL FROM MW4 AND SS3Ad2

The analytical results of the soil samples collected from MW4 at depths of approximately 13.5 feet, 17.5 feet and 22.5 feet below grade indicated detectable concentrations of TCE and cis-1,2 dichloroethene that ranged up to 2.3 parts per million (ppm). The concentrations of TCE at 13.5 and 17.5 feet below grade in MW4 (2.3 and 1.9 ppm, respectively) were in excess of the Environmental Screening Level (ESL) of 0.73 ppm.

In SS3Ad2, where an odor of hydrocarbons was observed, TPH as diesel and motor oil were detected at concentrations of 120 ppm and 1,000 ppm, respectively. Also, Methyl-tertiary-butyl-ether (MTBE) was detected at a concentration of 0.058 ppm, and BTEX (benzene, toluene, ethylbenzene and xylenes) constituents were detected ranging from 0.060 (ethylbenzene) to 0.33 ppm (1,2,4-trimethylbenzene). These sample results are summarized on Table 6.

To further define the extent of hydrocarbon contamination at this location, a soil boring should be extended to groundwater at this location and soil samples collected at every five-foot interval and at any obvious contamination. A grab groundwater sample should also be collected. The soil samples should be analyzed for TPH as diesel and motor oil and EPA method 8260 constituents.

### ANALYTICAL RESULTS – SURFICIAL SOIL SAMPLES

The analytical results of the composite soil samples collected for analyses for the CAM 17 metals, hexavalent chromium and cyanide indicated concentrations of some metals in excess of the commercial ESLs. Therefore, as proposed in the work plan, the discrete soil samples were analyzed for the particular metals that were in excess of the ESLs. These sample results are summarized on Tables 5A and 5B.

Arsenic was detected in five discrete samples at concentrations above the ESL (5.5 ppm), ranging up to 8.1 ppm. It is possible that all of the arsenic detected is naturally occurring, as it is within published background ranges, and relatively uniformly distributed.

Soil samples 3B through 3D, collected nearest the auto body shop building on the southern portion of the Property, contained elevated concentrations of cadmium, chromium, copper, and nickel. Arsenic, zinc and hexavalent chromium were also elevated (above their respective ESLs) in some of these samples. Chromium and arsenic were detected above their respective ESLs in S3A. At this location, a deeper soil sample was collected at 2 feet below grade. This sample was collected due to an odor of hydrocarbons; however, to provide vertical delineation for metals and an example of "background" concentrations in native soils, it was also analyzed for those metals that were above the ESLs in composite sample S3A-3D. The results indicated concentrations below the ESLs.

Composite soil sample S4A-S4D was collected in a hummocky area and none of the detected compounds were in excess of their respective ESLs. Based on observations during sample collection, this "hummocky area" is comprised of surficial soils that were moved from other portions of the site after the plating operation had long ceased.

Chromium was also detected above the ESL in three other discrete samples, and hexavalent chromium in one other discrete sample. Except at SS2D, these samples (SS1A and SS2A) may be representative of naturally occurring background concentrations.

To further define the extent of these metals in soil, PIERS recommends that soil samples be collected from SS3B through SS3D and at SS2D at 2 feet below grade and analyzed for those metals that exceed the ESL in the shallow samples. Also, two soil borings should be advanced in the "hummocky area" and soil samples collected at approximately 0.5 and 2.0 feet below the original grade. The samples from 2.0 feet could be placed on hold and analyzed based on the analytical results of the samples from 0.5 feet below grade, which should be analyzed for the CAM 17 metals.

Although some concentrations of metals were in excess of the "ten times rule", where the STLC test would be performed, the STLC tests were not performed at this time because additional exploration is proposed to define the vertical extent of metals in soil, and because in the future, if profiling for disposal of these soils, the concentrations of metals in the stockpiles may be less than these values.

### ANALYTICAL RESULTS – MONITORING WELLS

The analytical results of the VOCS in wells MW1 through MW3 were within historical ranges (see Table 2). The concentration of TCE in MW1 decreased to 9,100 ppb, as compared to 19,000 ppb detected on May 12, 2005, the historical maximum detected. The concentration of VOCs in newly installed wells MW4 and MW5 were relatively low. The concentrations in MW1 remain elevated above the ESL where groundwater is not considered a resource. Figure 4 presented the TCE concentrations in wells.

Petroleum hydrocarbons (Table 3) were non-detectable in all of the wells except in MW1, where a single peak, that the laboratory has previously stated was TCE falling within the TPH as gasoline range, lead to a reportable result of 6,800 ppb.

The analytical results of the CAM 17 metals, hexavalent chromium and cyanide indicated concentrations below the ESL for the respective compounds, except for lead and zinc in MW2, copper in MW3 and MW5, and cyanide in MW5 (see Table 4). For the metals, because the concentrations are the same order of magnitude as the ESL, and because all of the other compounds were below the ESL and the detected metals in groundwater do not correspond to locations of elevated concentrations in soil, it is not clear that these detected concentrations are due to previous site activities. The reason is not clear for the occurrence of 22 ppb of cyanide in well MW5 while non-detectable in the other wells and below the ESLS in the soil samples. **PIERS recommends that future groundwater samples be analyzed for these compounds to confirm these findings in the wells where they were previously detected.** 

The analytical results are summarized on Tables 2 through 4 and Figure 4.

### ANALYTICAL RESULTS - SOIL VAPOR SAMPLING

The analytical results of the six soil vapor samples (SV1 through SV6) indicated concentrations of TCE and cis-1, 2 DCE above their respective ESLs in samples SV2 through SV4, closest to the building. However, previous soil sampling at B10 and B10B and soil sampling during this investigation at MW4 did not clearly indicate a near surface source as was encountered at the center of the Property near MW1. Therefore, the source of these contaminants is undefined, and additional investigation in this area is warranted. This investigation should be conducted in conjunction with additional investigation for metals at SS3B through SS3D and hydrocarbons at SS3A.

In order to calibrate the soil vapor data with soil analytical data, PIERS proposes collecting soil samples at approximately 5 feet below grade at the two soil vapor locations with the highest concentrations of constituents (SV4 and SV5) and analyzing these samples by EPA Method 8260. Three additional soil vapor borings would also be completed to the east and southeast of these points outside the building, and three soil vapor borings would be completed to the south of SV4, inside the building. At these locations, a soil sample would be collected at any obvious contamination and at 5 feet below grade, and then a soil vapor sample would be collected. The locations of the proposed borings are shown on Figure 5.

Numerous other compounds were detected (see laboratory sheets) but were below their respective ESLs or else there is no ESL for the compound. The results of these analyses are depicted on Table 7 and Figure 5.

### FILE REVIEW FOR 958 - 28<sup>TH</sup> STREET

As proposed in PIERS' workplan, wells identified in a well survey were investigated further. PIERS had previously reported that thirty-six monitoring wells are located at 958 E. 28<sup>th</sup> Street, approximately 700 feet to the west-southwest. To better determine the location of these wells, to obtain information on the hydrogeologic conditions, and to determine if the wells have ever been sampled for VOCs, PIERS proposed to review the file.

Based on the file review, this site was a LUST case that received closure in February 1996. Eight monitoring wells were installed, and apparently have been destroyed, as this was a condition for obtaining the Remedial Action Completion Certification. There is no indication that samples from the wells were ever analyzed for the contaminants of concern for the 2942 San Pablo investigation. The depth to groundwater at this site reportedly ranged from about 10 to 16 feet below grade, with a flow direction that was generally to the south-southwest. However, as stated in the file documents, the tank pit gravel backfill may have affected the elevations in groundwater of two wells. The wells were generally screened over 10-foot to 20-foot intervals, beginning as shallow as 10 feet below grade and as deep as 18 feet below grade, and extending to 25 to 30 feet below grade. The wells appear to be screened through units of differing lithology without regard to permeability.

### **CORRECTIVE ACTION PLAN**

### IMPACT ASSESSMENT

1. The physical and chemical characteristics of the hazardous substance or its constituents, including their toxicity, persistence, and potential for migration in water, soil, and air:

Based on the analytical results for both soil and groundwater samples collected to date, the primary contaminant to be addressed by this CAP is Trichloroethylene (TCE) and its breakdown products. The analytical results of the soil and groundwater samples collected from the monitoring wells and borings indicate dissolved concentrations of these compounds. These compounds are relatively defined in soil and groundwater except for the southeastern portion adjacent to the building. These compounds are defined in soil vapor only around MW4. Additional delineation in that area is proposed but is not anticipated to significantly change this CAP, which is conceptual. Also, elevated concentrations of metals and hydrocarbons have been identified during this investigation in shallow soils, and are not completely delineated.

2. The hydrogeologic characteristics of the site and the surrounding area where the unauthorized release has migrated or might migrate:

The contaminant source on the site is considered to be the residual TCE and VOCimpacted soils and groundwater that was identified by the MIP investigation in July 2004. Although some metals have been identified above ESLs in shallow soil at the Property, they do not appear to have significantly impacted groundwater.

The subsurface soils at the Property consist predominantly of silt and clayey silt with varying amounts of gravel, and some silty clay. The gravels are highly weathered and decomposed. Three lithologic units have been defined. The first unit is comprised of the lowest permeability soils consisting predominantly of clay or silty clay (CL). This unit is defined on the cross-sections by those soils with greater than 150 milliSiemens per meter of conductivity during MIP logging. While the unit is of relatively low permeability, it is clear that the TCE at the source migrated vertically downward through up to 5 feet of thickness of these soils. The other occurrences of this unit at depth were predominantly discontinuous and less than two feet in thickness within the saturated zone (s).

The second unit is comprised of the highest permeability soils, which consisted of gravelly silt (ML). This unit is defined as those soils with less than 50 milliSiemens per meter of conductivity during MIP logging. This unit also occurs in discontinuous layers of less than several feet within the saturated zone, except in the vicinity of MIP boring B14/well MW2. At this location, the unit was encountered from approximately 32.5 feet below grade to the total depth explored (about 43 feet).

The third unit is defined as those soils of intermediate permeability, between 50 and 150 milliSiemens per meter of conductivity. These soils vary from clayey silt (ML) to silt with some gravel (ML).

The three units are gradational laterally and vertically and discontinuous laterally, typical of alluvial fan deposits. The unit of intermediate permeability could be described as layers of fining upward and coarsening upward sequences, as shown on the cross-sections.

According to "Flatland Deposits – Their Geology and Engineering Properties and Their Importance to Comprehensive Planning" by Halley et al (U. S. G. S Professional Paper 943), the Property is underlain by Late Pleistocene alluvium, which is generally described as weakly consolidated, slightly weathered, poorly sorted, irregularly interbedded clay, silt, sand and gravel at least 150 feet thick. The alluvium was deposited in stream channels and on stream terraces in an alluvial fan setting.

Also, according to "Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties", by Sandy Figuers, dated June 15, 1998, the Property is located within the Oakland sub-area of the San Francisco Basin, a tectonic depression that is filled primarily with a sequence of coalescing alluvial fans, occurring as irregular lenses eroded from the surrounding hills. Based on cross-sections accompanying this report, the Property is underlain by over 100 feet of Yerba Buena mud, which is underlain by about 260 feet of recent alluvium. The recent alluvium is in turn underlain by about 320 feet of Santa Clara-equivalent, fine-grained, alluvial fan-derived sediments. The depth to the underlying bedrock is about 600 feet. The Yerba Buena mud is considered to be an aquitard. However, the lithologic logging and MIP work completed during this investigation are more consistent with the recent alluvium unit.

According to Figuers, the Oakland sub-basin has two main aquifers, the Merritt Sand, which does not occur in the area of the Property, and deeper gravels. North Oakland has a surface clay between two to twenty feet in thickness, and water-bearing gravels occur at 20 to 25 feet and 45 to 50 feet, which is generally consistent with this investigation. Wells in this area (no longer active) averaged 150 feet in depth.

3. The proximity and quality of nearby surface waters, wetlands, or groundwater, and the current and potential beneficial uses of these waters:

### Surface Waters

Based on the USGS Topographic Map for this area (Oakland West), the nearest surface water body is Lake Merritt, which is located approximately one mile to the southeast. As this is cross-gradient to up-gradient of the Property, the subject site does not have the potential to impact the surface waters at Lake Merritt. The next closest surface waters and wetlands are located approximately 1.2 miles to the northwest, at the margin of San Francisco Bay.

According to information contained in the Water Quality Control Plan for the RWQCB, San Francisco Bay Basin (Basin Plan) dated June 21, 1995, the existing and potential beneficial uses for the San Francisco Bay are as follows:

- Ocean, Commercial, and Sport Fishing
- Estuarine Habitat
- Industrial Service Supply
- Fish Migration
- Navigation
- Preservation of Rare and Endangered Species
- Water Contact Recreation
- Non-Contact Water Recreation
- Shellfish Harvesting
- Fish Spawning (Potential)
- Wildlife Habitat

### Wetlands

There are no wetlands in the vicinity of the site. The closest wetlands are at San Francisco Bay, approximately 1.2 miles to the northwest of the site.

### Groundwater

The Property is located within the East Bay Plain groundwater basin. Per the Basin Plan, the existing and potential beneficial uses applicable to groundwater include municipal and domestic water supply, industrial process water supply, industrial service water supply, and agricultural water supply.

4. The potential effects of residual contamination on nearby surface water, wetlands, and groundwater:

Although the down-gradient extent of dissolved contamination at the Property is not completely defined, based on the distance (approximately 1.2 miles) of the Property from the nearest surface water or wetlands, it does not appear that the contamination at the Property would significantly impact surface water or wetlands. In addition, PIERS previously searched the available records for the presence of water-producing wells located within a half-mile radius of the site. No active production wells were located within the half-mile radius.

### FEASIBILITY STUDY

The responsible party shall conduct a feasibility study to evaluate the alternatives for remedying or mitigating the actual or potential adverse effects of the unauthorized release. Each alternative shall be evaluated for cost effectiveness, and the responsible party shall propose to implement the most cost-effective corrective action:

### OPTION #1 - NO REMEDIAL ACTION/LONG TERM MONITORING

COST:	Rel	atively low
TIME FRAME:		Long term
ADVANTAGES:	1)	Low annual cost 2) Minimal impact to planned development
DISADVANTAGES	2)	Source continues to impact groundwater with potential for further migration No defined project closure
CONCLUSION:	No	t a suitable approach for this site at this time.

### OPTION #2 – GROUNDWATER PUMP AND TREAT

COST:	High
TIME FRAME:	Long term due to low extraction rate
ADVANTAGES:	<ol> <li>Potential for hydraulic control</li> <li>Could reduce dissolved concentrations in groundwater</li> </ol>
DISADVANTAGES:	<ol> <li>Not an effective method for remediating dissolved concentrations of volatile organic compounds in low permeability soils. Wells might not produce sufficient water to provide significant treatment.</li> <li>Would require disposal of treated water.</li> <li>Construction and operation costs for an extraction system would be high.</li> </ol>
CONCLUSION:	Not an effective remedial method for this site; more feasible methods are available.

### OPTION #3 - VAPOR EXTRACTION

COST:	Hig	h
TIME FRAME:	Lon	g term due to low extraction rate
ADVANTAGES:	1) 2)	Could potentially remediate soil. Could reduce dissolved concentrations in groundwater.
DISADVANTAGES:	2)	Not an effective method for remediating volatile organic compounds in low permeability soils. Vapor extraction wells likely would not have sufficient capture zone to provide significant treatment. Construction and operation costs for an extraction system would be high. Would require permitting for emissions.

CONCLUSION: Not an effective remedial method for this site; more feasible methods are available.

### <u>OPTION #4 – ELECTRICAL RESISTIVITY HEATING &</u> <u>VOLATILIZATION</u>

- COST: High
- TIME FRAME: Short term
- ADVANTAGES: 1) Works largely independently of permeability and lithology.
  - 2) Can be completed in relatively short duration.

DISADVANTAGES: 1) High cost

- 2) Requires permitting for emissions.
- 3) May affect adjacent parcels.
- CONCLUSION: Considered unfeasible for this site due to high costs and site logistics (small site bordered by other properties and street improvements).

### <u>OPTION #5 – INJECTION OF BIODEGRADATION, OXIDATION OR</u> <u>REDUCTION REAGENTS</u>

COST: Relatively low

## TIME FRAME: Short term, longer term with additional monitoring and re-injection

### ADVANTAGES: 1) Effective for reducing moderate to high dissolved levels of groundwater contamination.

- 2) Monitoring of groundwater conditions can be performed and additional material injected, if required.
- 3) Oxidizing agents containing permanganate are relatively effective in low permeability soils

### DISADVANTAGES: 1) Reagent must come in direct contact with contaminants

- 2) May not be effective for remediating low dispersed concentrations in low permeability areas.
- 3) Reducing agents and biodegradation enhancers not effective if little natural biodegradation occurring, reducing agents could potentially leave daughter products if breakdown incomplete.
- CONCLUSION: Oxidation (injection of permanganate) appears to be an effective remedial method for this site.

### OPTION #6 - SOURCE REMOVAL

- COST: High
- TIME FRAME: Short term
- ADVANTAGES: 1) Completely effective for area excavated and for groundwater extracted during dewatering of excavation.
  - 2) Allows access for addition of reagents.
- DISADVANTAGES: 1)Not economically feasible if soil concentrations would require incineration of soils.
  - 2) Not feasible with increasing depth due to groundwater and construction considerations.

# CONCLUSION: Considered a possible remedial technique for this site if concentrations can be reduced to allow disposal at a Class II facility.

### FEASIBILITY STUDY DISCUSSION

1. For all sites, each recommended alternative shall be designed to mitigate nuisance conditions and risk of fire or explosion:

A site Health and Safety Plan (HSP) will be prepared for the recommended scope of work. The HSP will be strictly followed in order to ensure site and community safety.

2. For sites where unauthorized release affects or threatens water with current or potential beneficial uses designated in water quality control plans, the feasibility study shall also identify and evaluate at least two alternatives for restoring or protecting these beneficial uses:

As previously stated in this CAP, it does not appear that the contaminants that are present at the subject site threaten any surface water or wetlands in the vicinity of the site that have a current or potential beneficial use. However, groundwater is affected, and two alternatives (addition of oxidizer and source removal) have been identified. Monitoring and sampling of the existing wells would be used to evaluate corrective action effectiveness and progress towards cleanup.

### **CLEANUP LEVELS**

Cleanup levels for ground or surface waters, affected or threatened by the unauthorized release, shall meet the following requirements:

- (i) For waters with current or potential beneficial uses for which numerical objectives have been designated in water quality control plans, the responsible party shall propose at least two alternatives to achieve these numerical objectives.
- (ii) For waters with current or potential beneficial uses for which no numerical objectives have been designated in water quality control plans, the responsible party shall recommend target cleanup levels for long-term corrective actions to the regulatory agency for concurrence.

The final cleanup level goal for TCE in groundwater is proposed to be 5.0 ppb, the Environmental Screening Level (ESL) for areas where groundwater is considered to be a resource. It is anticipated that for any remaining residual contamination in groundwater above the cleanup goal, and for the potential for indoor air exposure, an evaluation of risk to human health and environment (risk based corrective action or RBCA) would be conducted, and mitigating measures would be designed.

### **REMEDIAL ACTION PLAN**

Based on the various remedial alternatives evaluated in this CAP, PIERS presents the following recommendations for remedial action. Recommendations for additional investigation were presented earlier in this report. This work should be carried out first, and the findings used to reevaluate this remedial action plan and modify it, as appropriate.

### Injection of Permanganate into Groundwater

A calculation of contaminant mass and determination of soil oxygen demand and other parameters would be performed to determine suitable quantities for injection. A work plan would be developed detailing pilot test procedures and the ultimate number of injection points. After injection, periodic monitoring for permanganate and TCE would be performed during regular quarterly monitoring and the need for additional injection would be evaluated on an ongoing basis. Although it would be benificial to install permanent injection points (two-inch casings) it is anticipated that this would not be feasible due to source removal and future construction excavation considerations. This step would be performed prior to any excavation as injection under pressure has the potential to resurface around the borehole.

### Soil Mixing and Limited Source Removal

This work would remove or greatly reduce the highest concentrations of TCE at the source down to the level of groundwater. An area of soil mixing approximately 13 feet by 26 feet laterally and up to 17 feet deep would be completed at the source. Other areas requiring excavation for the planned facility would be identified and soil mixing would be performed at those areas. A large excavator fitted with a soil mixing wheel and hose for direct application of permanganate in solution would be used to treat the affected soils. After treatment, it is anticipated that soils in the mixed areas with remaining residual levels above screening levels, surficial soils impacted by metals, and any soil requiring excavation for construction of the new facility would be disposed of at the appropriate landfill facility.

Due to the low permeability soils and discontinuous nature and depth of the contaminant distribution, mixing and treatment of all of the TCE-impacted soil at the Property is not considered feasible. Some concentrations of TCE in excess of the ESLs would likely remain in place in soils both laterally and vertically after this work.

### Mitigation of Potential for Exposure to Contaminants in Indoor Air

It is recognized that prior to construction of the new facility, and in the area of the existing building, additional investigation of soil vapor conditions would be performed, a risk assessment would be conducted, and in the case of the new building, a vapor barrier designed.

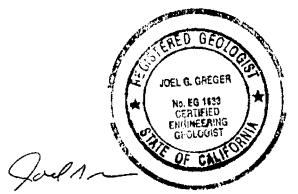
### Evaluation of Progress Towards Cleanup Goals

The existing well network would be sampled on a quarterly basis to evaluate the progress towards cleanup goals and the effectiveness of the remediation.

It is anticipated that after your review of this document, and finalization of the scope of work, more detailed work plans would be prepared for each future phase and submitted for your review. If you have any questions regarding this report and CAP, please do not hesitate to contact me at (510) 593-5382.

Sincerely,

PIERS Environmental Services, Inc.



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

Attachments Figures 1 through 5 Tables 1 through 7 Appendices A-E

cc: Mr. James Chung, owner



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

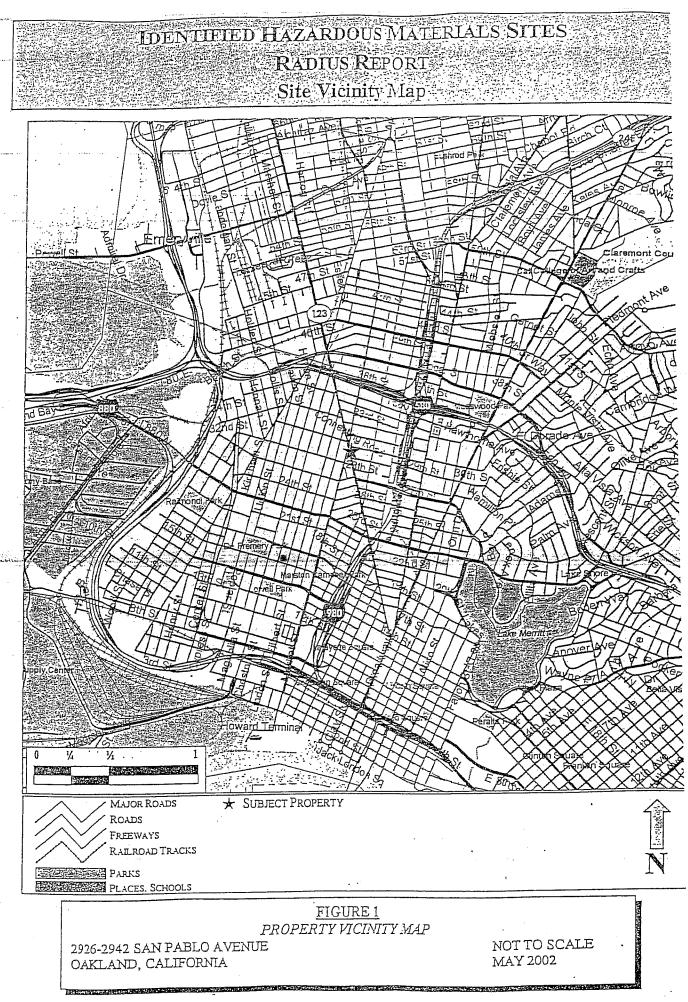
Corrective Action Plan 2942 San Pablo Avenue, Oakland, CA November 2006 Page 19

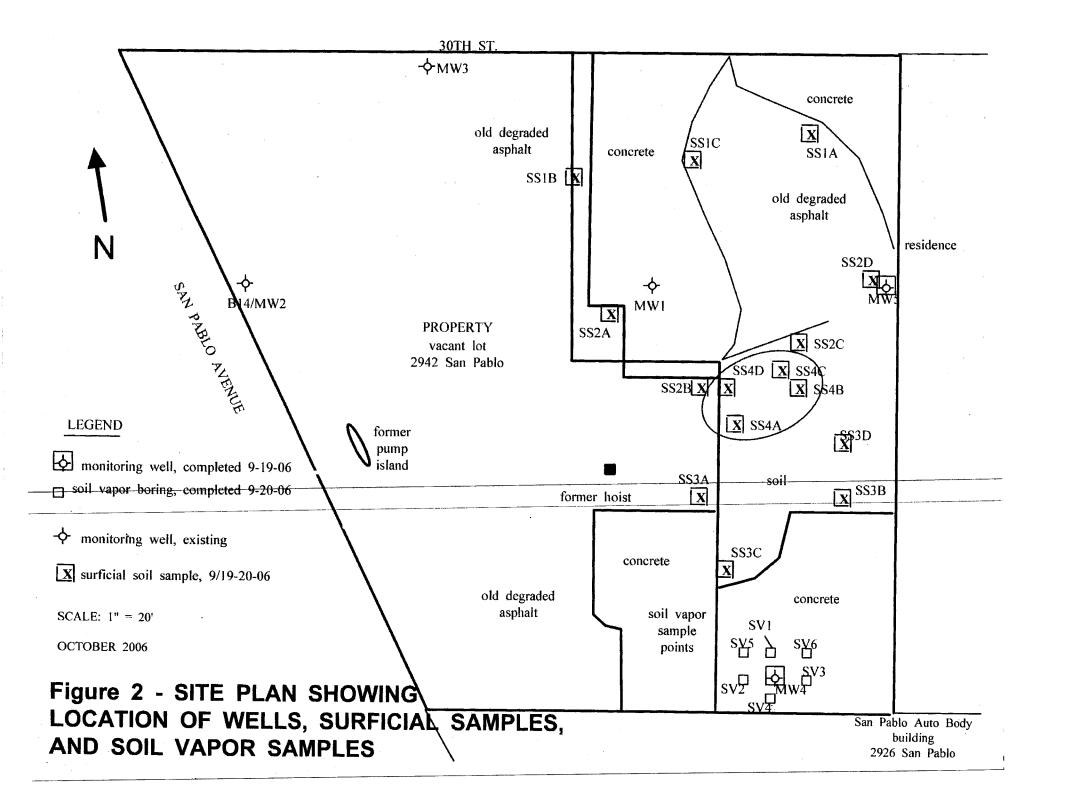
### FOR REFERENCE ONLY

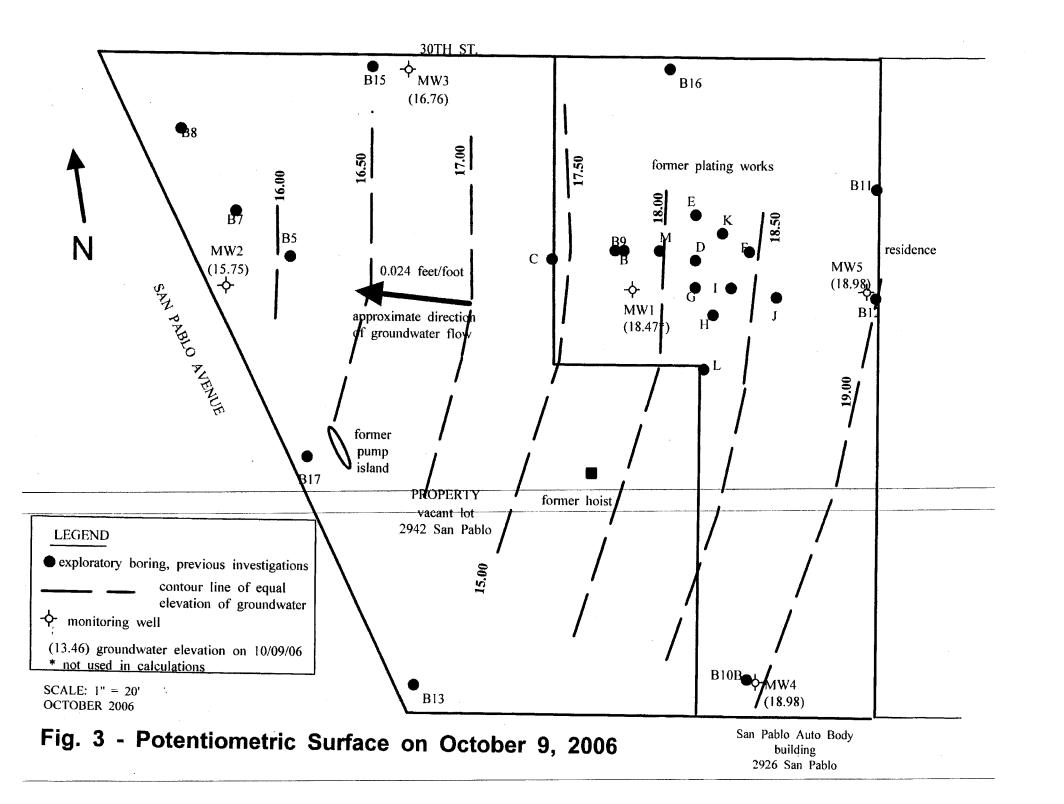
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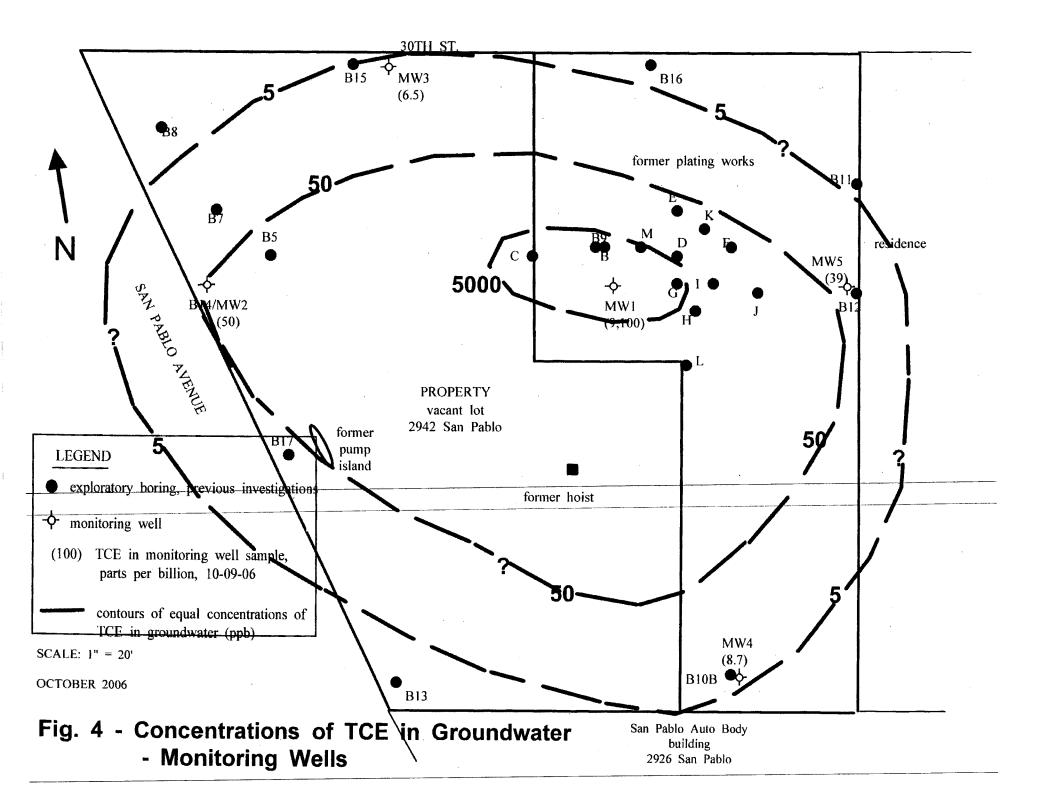
- Figure 1 Vicinity Map
- Figure 2 Site Plan showing Locations of Surficial Samples, Wells, and Soil Vapor Borings
- Figure 3 Potentiometric Surface Map
- Figure 4 Concentrations of TCE in Groundwater Monitoring Wells
- Figure 5 Soil Vapor Data & Proposed Borings
- Table 1 Groundwater Monitoring Data
- Table 2 Groundwater Analytical Data Solvents
- Table 3 Groundwater Analytical Data Hydrocarbons
- Table 4 Groundwater Analytical Data Metals & Cyanide
- Table 5A Soil Analytical Data Metals Composite Samples
- Table 5B Soil Analytical Data Metals Discrete Samples
- Table 6 Soil Analytical Data Solvents Perimeter
- Table 7 Soil Vapor Analytical Data
- Appendix A Well Purging and Sampling Data
- Appendix B Laboratory Analytical Data Sheets and Chain of Custody
- Appendix C Boring Logs and Well Construction Diagram
- Appendix D Survey Data
- Appendix E Geotracker uploads

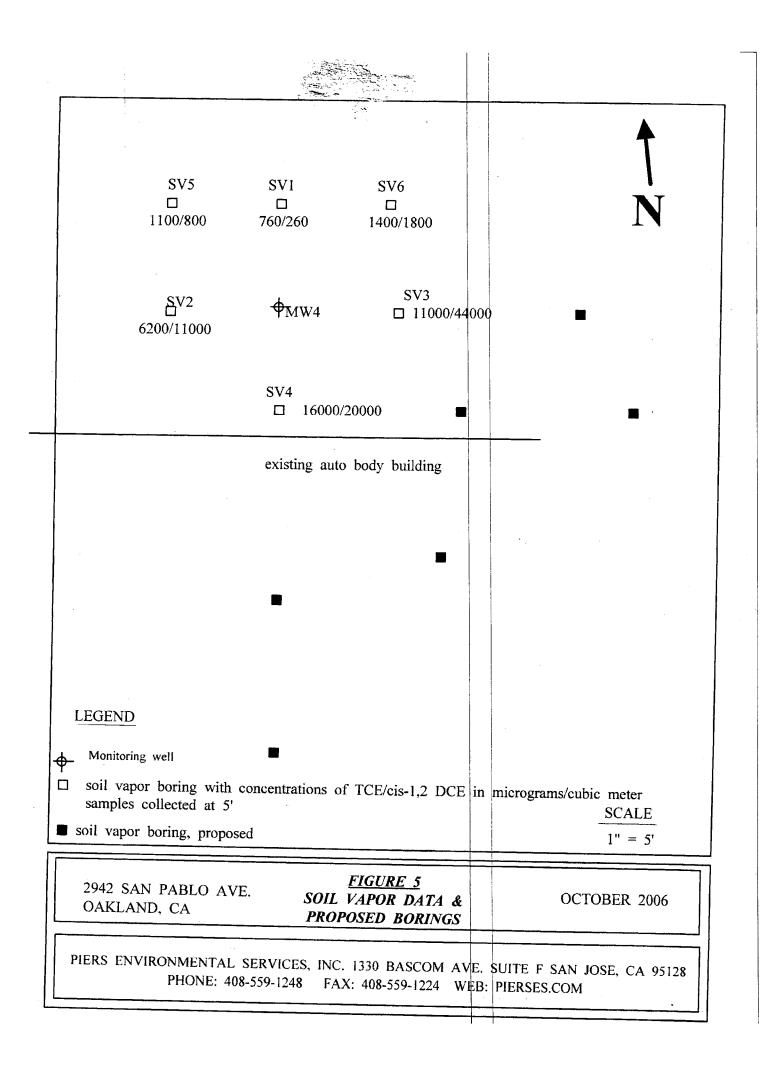
### **FIGURES**











TABLES

## TABLE 1GROUNDWATER MONITORING DATA2942 San Pablo Avenue, Oakland

Well No.	Date	Groundwater Elevation	Top of casing Elevation	Depth to Water	Well Depth	Product Thickness	Sheen	Water purged (gallons)
MW1	7/27/2004	13.17	26.32	13.15				0
	7/30/2004	13.12		13.20	36.55	0	No	5
	11/15/2004	13.46		12.86	36.60	0	No	1.5
	2/11/2005	15.76		10.56	36.60	0	No	1.6
	5/12/2005	15.87		10.45	36.60	0	No	1.6
	10/9/2006	18.47	31.65*	13.18	36.60	0	No	1.41
MW2	7/27/2004	9.93	24.60	14.67	1			0
111112	7/30/2004	10.30	24.00	14.30	33.10	0	No	4
	11/15/2004	10.85		13.75	33.11	0	No	1.2
	2/11/2005	12.66		11.94	33.11	0	No	1.3
	5/12/2005	12.75		11.85	33.11	0	No	1.3
	10/9/2006	15.75	29.92*	14.17	33.20	0	No	1.2
MW3	7/27/2004	11.36	25.69	14.33				0
101 00 5	7/30/2004	11.50	25.07	14.40	36.00	0	No	5
	11/15/2004	12.06		13.63	36.05	0	No	1.5
	2/11/2005	13.79		11.90	36.05	0	No	1.4
	5/12/2005	13.84		11.85	36.05	0	No	1.5
	10/9/2006	16.76	31.00*	14.24	36.02	0	No	1.4
MW4	10/9/2006	18.98	31.97	12.99	40.11	0	No	1.75
MW5	10/9/2006	18.98	32.11	13.13	39.66	0	No	1.75

\* The wells were resurveyed to a new benchmark on 9-26-06, see report text for discussion.

TABLE 2 GROUNDWATER ANALYTICAL DATA - SOLVENTS 2942 San Pablo Avenue, Oakland									
Sample/ Depth (feet)	Date Sampled	TCE (ppb)	cis-1,2- DCE	Acetone (ppb)	Chloroform (ppb)				
MW1	7/30/2004	5,670	2	<10	2.1				
MW1*	11/15/2004	5,610	6	<10	2.1				
MW1**	2/11/2005	7,130	5	<10	2.6				
MW1	5/12/2005	19,000	5	<10	5.3				
MW1***	10/9/2006	9,100	3.9	<10	2.3				
MW2	7/30/2004	219	<1	51	3				
MW2	11/15/2004	15	<1	<10	< 0.5				
MW2	2/11/2005	12.5	<1	<10	< 0.5				
MW2	5/12/2005	45.6	<1	<10	< 0.5				
MW2	10/9/2006	50	4.7	<33	<1.7				
MW3	7/30/2004	6.6	<1	<10	< 0.5				
MW3	11/15/2004	11.6	<1	<10	< 0.5				
MW3	2/11/2005	20.6	<1	<10	< 0.5				
MW3	5/12/2005	16.2	<1	<10	< 0.5				
MW3	10/9/2006	6.5	1.5	<10	< 0.5				
MW4	10/9/2006	8.7	4.4	<33	<1.7				
MW5	10/9/2006	39	4.5	<10	<0.5				
ESL		5.0/360	6.0/590	700/1500	5.0/350				

### EXPLANATION: ppb = parts per billion

DCE = Dichloroethene TCE = Trichloroethene

ESL = Environmental Screening Level, groundwater is/is not a resource (Tables C/D).

\* Vinyl Chloride and trans-1,2-DCE were also detected

at concentrations of 1.7 and 1 ppb, respectively.

\*\* Vinyl Chloride was detected at a concentration of 0.7 ppb.

\*\*\* 1,1,2-TCA and carbon disulfide were also detected at concentrations of 0.65 and 2.1 ppb, respectively.

ANALYTICAL METHODS:

EPA Method 8260.

2942 San Pablo Avenue, Oakland											
Sample/ Depth (feet)	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	MTBE (ppb)				
MW1	7/30/2004	2,280	<0.5	<0.5	<0.5	<1	<0.5				
101 00 1	11/15/2004	2,200	3.7/2.9	<0.5	<0.5	<1	<0.5				
	2/11/2005	5,270	0.7/0.8	<0.5	<0.5	1.4	<0.5				
	5/12/2005	7,610	< 0.5	0.5/1.2	<0.5	<1	<0.5				
	10/9/2006	6,800	< 0.5	<0.5	< 0.5	<0.5	<5.0				
MW2	7/30/2004	144	<0.5	<0.5	<0.5	<1	< 0.5				
101 10 2	11/15/2004	<50	< 0.5	<0.5	<0.5	<0.5	< 0.5				
	2/11/2005	<50	< 0.5	<0.5	<0.5	<0.5	< 0.5				
	5/12/2005	<50	<0.5	<0.5	<0.5	<1	< 0.5				
	10/9/2006	<50	< 0.5	<0.5	< 0.5	<0.5	<5.0				
MW3	7/30/2004	63	<0.5	<0.5	<0.5	<1	<0.5*				
	11/15/2004	<50	<0.5	<0.5	<0.5	<1	< 0.5				
	2/11/2005	<50	< 0.5	<0.5	<0.5	<1	< 0.5				
	5/12/2005	<50	< 0.5	< 0.5	<0.5	<1	< 0.5				
	10/9/2006	<50	<0.5	<0.5	<0.5	<0.5	<5.0				
MW4	10/9/2006	<50	<0.5	<0.5	<0.5	<0.5	<5.0				
MW5	10/9/2006	<50	<0.5	<0.5	<0.5	<0.5	<5.0				
ESL		100/500	1.0/46	30/290	40/130	13/13	5.0/1,800				

## TABLE 3

### EXPLANATION:

\* Di - isopropyl ether (DIPE) was detected at a concentration of 1.6 ppb.

ppb = parts per billion

Analytical results are by EPA Methods 8015 and/or 8260.

TPHg = Total Petroleum Hydrocarbons as gasoline.

ESL = Environmental Screening Level, groundwater is/is not a resource (Tables C/D).

### TABLE 4 GROUNDWATER ANALYTICAL RESULTS -METALS, CYANIDE 2942 San Pablo Avenue Oakland, California

Sample (depth)	Date	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Cobalt (ppb)	Copper (ppb)	Lead (ppb)	Molybdenum (ppb)	Nickel (ppb)	Selenium (ppb)	Vanadium (ppb)	Zinc (ppb)	Chrome 6 (ppb)	Cyanide (ppb)
MW1	10/9/2006	0.65	360	0.79	1.3	1.5	1.6	1.9	1.2	3.8	< 0.5	3.9	54	< 0.2	<2.0
MW2	10/9/2006	< 0.5	230	0.40	3.0	1.8	2.0	6.4	0.91	12	0.59	3.5	130	< 0.2	<2.0
MW3	10/9/2006	0.57	230	0.46	1.3	1.4	4.6	2.0	1.0	3.9	< 0.5	2.4	78	0.48	<2.0
MW4	10/9/2006	3.7	420	< 0.25	0.80	< 0.5	1.0	1.0	2.2	1.7	< 0.5	0.91	36	0.34	<2.0
MW5	10/9/2006	3.1	320	< 0.25	1.1	7.1	7.1	1.1	26	3.5	1.3	3.1	72	0.26	22
ESL		36	1000	2.2	50/180	3.0	3.1	2.5	35/240	8.2	5.0	15/19	81	11	1.0

#### **EXPLANATION:**

ppb = parts per billion

Antimony, beryllium, mercury, silver and thallium were not detected in any of these samples.

ESL C/D = Environmental Screening Level from Tables C and D where groundwater is/is not a resource.

#### TABLE 5A SOIL ANALYTICAL RESULTS -METALS, pH, CYANIDE - COMPOSITE SAMPLES 2942 San Pablo Avenue Oakland, California

Sample (depth)	Date	Antimony (ppm)	Arsenic (ppm)	Barium (ppm)	Beryllium (ppm)	Cadmium (ppm)	Chromium (ppm)	Cobalt (ppm)	Copper (ppm)	Lead (ppm)	Mercury (ppm)	Molybdenun (ppm)	Nickel (ppm)	Selenium (ppm)	Silver (ppm)	Vanadium (ppm)	Zinc (ppm)	Chrome 6 (ppm)	Cyanide (ppm)	рН
B9 (1.5')	8/20/2003	<0.5	4.2	130	<0.5	2.3	63.6	10.4	17.6	50.6	< 0.05	1.0	54.6	<0.5	< 0.5	26.8	71.8	0.130	<0.40	9.56
B10 (1.5')	8/20/2003	<0.5	5.4	188	<0.5	5.4	55.6	6.8	72.2	27.2	< 0.05	1.4	346	<0.5	<0.5	40.2	650	0.0046	0.44	8.05
SS1A-1D	9/19-20/2006	3.4	17	170	0.51	1.3	84	18	210	210	0.54	1.9	100	<0.5	<0.5	100	210	<0.8	1.5	7.98
SS2A-2D	9/19-20/2006	3.4	6.0	260	<0.5	8.9	100	10	160	360	0.80	1.1	150	<0.5	2.0	44	430	1.9	1.3	7.58
SS3A-3D	9/19-20/2006	2.7	5.8	190	0.59	26	910	20	430	84	0.23	1.7	5400	0.71	2.9	39	750	2.2	6.1	10.88
SS4A-41D	9/19-20/2006	<0.5	4.2	150	<0.5	0.44	47	8.0	22	56	0.050	0.80	35	<0.5	<0.5	38	60	<0.8	1.1	7.37
ESL res./comm.		6.3/40	5.5/5.5	750/1500	4.0/8.0	1.7/7.4	58/58	40/80	230/230	200/750	2.5/10	40/40	150/150	10/10	20/40	110/200	600/600	1.8/1.8	100/500	
Background*		0.15-195	0.6-11	133 - 1,400	0.25-2.70	0.05 - 1.7	23 - 1,579	2.7 - 46.9	9.1 - 96.4	12.4 - 97.1	0.05-0.90	0.1-9.6	9 - 509	0.015-0.430	0.10-8.30	39 - 288	88 - 236			
STLC		15.0	5.0	100	0.75	1.0	5.0	80.0	25.0	5.0	0.2	350.0	20.0	1.0	5.0	24.0	250.0	5.0		
TTLC		500	500	10000	75	100	500	8000	2500	1000	20	3500	2000	100	500	2400	5000	500		

#### EXPLANATION:

ppm = parts per million

\* Range of background concentrations from Bradford et al, 1996.

Thallium was not detected (<0.5) in any of these samples.

### TABLE 5B SOIL ANALYTICAL RESULTS - DISCRETE SAMPLES - METALS, pH, CYANIDE 2942 San Pablo Avenue Oakland, California

Sample (depth)	Date	Arsenic (ppm)	Cadmium (ppm)	Chromium (ppm)	Copper (ppm)	Nickel (ppm)	Zinc (ppm)	Chrome 6 (ppm)	рН
		<b>41</b> /	Tr /	TT /	Gr /	Gr /	GI /	(FF )	
B9 (1.5')	8/20/2003	4.2	2.3	63.6	17.6	54.6	71.8	0.130	9.56
B10 (1.5')	8/20/2003	5.4	5.4	55.6	72.2	346	650	0.0046	8.05
SS1A-1D	9/19-20/2006	17	1.3	84	210	100	210	< 0.8	7.98
SS1A		5.8	NA	69	NA	NA	NA	NA	7.70
SS1B		4.1	NA	53	NA	NA	NA	NA	9.18
SS1C		4.6	NA	52	NA	NA	NA	NA	9.76
SS1D		5.3	NA	56	NA	NA	NA	NA	11.34
SS2A-2D	9/19-20/2006	6.0	8.9	100	160	150	430	1.9	7.58
SS2A		7.5	5.7	71	NA	NA	NA	1.2	9.3
SS2B		6.4	2.7	55	NA	NA	NA	< 0.8	9.45
SS2C		4.8	2.8	56	NA	NA	NA	< 0.8	8.12
SS2D		4.2	6.5	250	NA	NA	NA	9.4	6.51
SS3A-3D	9/19-20/2006	5.8	26	910	430	5400	750	2.2	10.88
SS3A		7.2	4.1	86	100	97	500	< 0.8	NA
SS3A d2'		2.8	< 0.25	30	12	22	22	<0.8	7.78
SS3B		8.1	26	2400	850	18000	370	8.6	NA
SS3C		5.2	45	200	360	400	1800	1.0	NA
SS3D		5.2	48	150	860	700	420	6.5	NA
SS4A-41D	9/19-20/2006	4.2	0.44	47	22	35	60	<0.8	7.37
ESL res./comm.		5.5/5.5	1.7/7.4	58/58	230/230	150/150	600/600	1.8/1.8	
Background*		0.6-11	0.05 - 1.7	23 - 1,579	9.1 - 96.4	9 - 509	88 - 236		
STLC		5	1.0	5.0	25.0	20.0	250.0	5.0	
TTLC		500	100	500	2500	2000	5000	500	

### **EXPLANATION:**

ppm = parts per million

\* Range of background concentrations from Bradford et al, 1996.

Thallium was not detected (<0.5) in any of these samples.

SO	IL ANALYTI		LE 6 - SOLVENTS	- PERIMET	ER					
SOIL ANALYTICAL DATA - SOLVENTS - PERIMETER 2942 San Pablo Avenue, Oakland										
Sample/ Depth (feet)	Date Sampled	TCE (ppm)	trans-1,2- DCE	cis-1,2- DCE	Chloroform (ppm)					
B7 (1')	8/20/2003	0.022	< 0.01	< 0.01	ND					
B7 (9.5')	8/20/2003	0.0057	< 0.005	< 0.005	ND					
B7 (14.5')	8/20/2003	0.074	1.4	< 0.005	ND					
B10 (1.5')	8/20/2003	0.25	0.0065	0.029	ND					
B10B (3')	9/23/2003	0.022	0.11	0.24	ND					
B10B (6')	9/23/2003	0.046	0.016	0.11	ND					
B10B (9')	9/23/2003	0.54	< 0.033	0.22	ND					
MW4d13.5	9/19/2006	2.3	< 0.050	0.84	< 0.050					
MW4d17.5	9/19/2006	1.9	< 0.050	0.54	< 0.050					
MW4d22.5	9/19/2006	0.53	< 0.020	0.11	< 0.020					
SS3Ad2*	9/20/2006	0.45	< 0.050	0.97	< 0.050					
MW2 (7.5')	7/23/2004	0.012	< 0.005	< 0.005	0.007					
MW2 (19.1')	7/23/2004	0.065	<0.005	<0.005	< 0.007					
101 00 2 (19.1)	1/23/2004	0.005	~0.003	~0.003	<0.00J					
ESL - < 3m		0.46	0.67	0.19	0.27					
ESL > 3m		0.73	0.73	3.6	0.27					

### EXPLANATION:

ppm = parts per million

TCE = Trichloroethene

DCE = Dichloroethene

ESL - Environmental Screening Level, Tables A /C (<3 meters), Tables B/D (> 3 meters).

\* This sample also contained TPH as diesel at a concentration of 120 ppm, TPH as motor oil at 1,000 ppm, 0.058 ppm of MTBE, 0.060 ppm of ethylbenzene, 0.33 ppm of 1,2,4-trimethylbenzene, and 0.12 ppm of xylenes.

TABLE 7SOIL VAPOR ANALYTICAL DATA2942 San Pablo Avenue, OaklandSamples collected on 9-20-06									
Sample/ Depth (feet)	Vinyl Chloride	Trans-1,2- DCE	Cis-1,2 DCE	TCE					
SV1 d 5'	21	89	260	760					
SV2 d 5'*	1400	7500	11000	6200					
SV3 d 5'	7700	4300	44000	11000					
SV4 d 5'	3300	4600	20000	16000					
SV5 d 5'	1900	7400	800	1100					
SV6 d 5'	200	1200	1800	1400					
ESL	100	41000	20000	4100					

EXPLANATION: results are in micrograms per cubic meter. \* duplicate sample ran, highest value shown ESL = Environmental Screening Level for shallow soil gas, commercial/ industrial use only.

Additional compounds detected in all samples, see laboratory sheets.

## APPENDIX A WELL PURGING AND SAMPLING DATA

10/18/2	006 11:52	5107871	.457		JOEL GREGER	18503570123 P.1	PAGE 02/07
Od 16 06 0	G39p Ma	ark Dysert			(" wa	1,0000	
	FLUID-LI	EVEL MO	NITORE	IG DATA		Dysert Environmen	
					Date:	10-9-06 DAKLAND CA	
·	Project/Site	Location: $\frac{2}{RV}$	1912 SI	<u>IN TABLO</u>	<u>Ave</u> Method:		
C OY	Boring/ Well	Depth to Water (fcct)	Depth to Product (feet)	Product Thickness (fect)	Total Well Depth (feet)	Comments	
5	MW-1	13.18		· · ·	36.60	H2O IN WELL BER BELOW CASING	@ 1030
2	MW-2	14.17			33.20	@ 1035	
ı	MW-3	·346 14-24 1299	· · · · · · · · · · · · · · · · · · ·		36.02	@ 1040	SLOW RECHARG
પ	Mil-4	12.99 3			40.11	A LOUS HIO IN BOX, BELOW CA	SLOW RECHARGE
3	MW-5	13-13			39.66	@ 1050	SLOW RECHARGE
		·					
÷.,							

Measurements referenced to top of well casing.

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いる.380 miles んー	~							
•								
		DYSE	RT ENVIRO	NMENTAL	., INC.	Dy	sert Enviro	onmental, Inc
			PURGING		DAIN	ATE: 10-		
ROJECT:	7 GU7 -	SAN PA	Bro Ave	<b>.</b> .				
TE LOCATION:	4-1-1 C			TATE: C	<u> </u>			
TY: OAKLA	- Ger			DEVICE	<u> </u>			
		de pilmo	oeristaltic	pump t	ladder pum	p (dispor	sable bailer	
<u>ircie one</u> 12vo	at submersit		SAMPLIN	<u>IG DEVICE</u>	sposable ba	ilet	other	
	bladder pum	г <sup>,</sup>	eristatic p			6		
asing diameter (ii		ircle one Ircle one	10.02	0.2	0.7	1.52		
asing volumes (g	allons <u>i G</u>		WELL	DATA				
SAMPLERIS: 50	Ter			<b></b>				
NELL NUMBER	FIELD POI	NT 1D: M	.60		·			
A. TOTAL WELL B. DEPTH TO W/		18						
C. WATER HEIG	HT (A <u>-B):</u>	23 42						
D. WELL CASING	G DIAMETEI	<u>R:  </u>						
E. CASING VOLU		0.02 CXE):	17					
G CASE VOLUN	1E (8) (CXEX	3 ): 1	.चा					
H: 80% RECHAR	GE LEVEL	(F+B): <u> </u>	3.65 PURC	SE DATA				
START TIME: L	2<<							_
PUMP DEPTH:	N/A						<u>.</u>	
FINISH TIME:	315			<u> </u>				
PUMP DEPTH:	NA		ECHARGE	/ SAMPLE	TIME			
DEPTH TO WAT	ER: 13,2			TIME MEA	SURED:	1520	NO NO	
GREATER THAT	NOR EQUA	L TO 80%	RECHARG	ELEVEL (H	): circle o WATER:	13 2 5	<u> </u>	·
SAMPLE TIME:	1525	DOR: CI	SAR / N/A	the second se				
TOTAL GALLO	IS PURGED	• 1.41						
			NELL FLUI	D PARAME	I I			
CASE VOL	0	0.5	1	1.5	2	2.5	3	POST
Ph	2.07,	7.12	7.05	7.08	7.07	7.05	7.06	7.03
TEMP in °C	22.2	21.8	21.2	20.8	20.9	20.2	20.6	20.7
	606	473	670	810	826	836	851	849
COND / SC	1604	<u> </u>			<u> </u>			
DTW			+		<u> </u>			
Pump Depth	1			<u> </u>				+
Pump Rate		 		<u> </u>	ļ	L	ļ	<u> </u>
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JOEL GREGER

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/2006 11:52 <b>603:40p M</b>	510787 ark Dysert	1401		•	_ GREGER	16 <b>5035</b> 7012	3	p.B
mw-2	-							
		DYS	ERT ENVI		L, INC.	Ĩ	)ysert Envi	ronmental, Ir
				SAMPLI		DATE: 10		
PROJECT: SITE LOCATION	: 2942	SAN P	авсо А	UE.				
CITY: OAKLA	NЙ			STATE: C	<u>a</u>			
	volt submen		peristalt SAMPL	ING DEVIC	bladder pu E		osable baik	*)
<u>circle one</u>	bladder pul	mp <u>circle one</u>	peristaltic ( 0.75	2 pump	4	6		
casing diamèter ( casing volumes (	incries) callons)	circle one	ूल घर		0.7	1.52		
	1.		WE	L DATA		- <u> </u>	<u> </u>	
SAMPLER/S: 4	<u>X/X/</u> Trifild PC	INT ID: M	w - 2			,		
A TOTAL WELL	DEPTH:	:53.	20			<u></u> .		
B. DEPTH TO W	ATER:	14.1	<del>ţ</del>			A		
C. WATER HEIG D. WELL CASIN	G DIAMET	R: (_	<i></i>					
E. CASING VOL	UME:	0.0	17		<u> </u>			
F. SINGLE CASI G. CASE VOLU		(CXE):	1.14					·····
H: 80% RECHAT	GE LEVEL	<u>(F+8):</u>	4.55			- <u> </u>		
			PUR	GE DATA				<u></u>
START TIME: PUMP DEPTH:	1140 N/4		,					
FINISH TIME:				······································				
PUMP DEPTH:	A\L		DECUADO	E/SAMPLE	THE			
DEPTH TO WAT	16R- 1417			TIME MEA	SURED: 1		<u> </u>	
GREATER THA	N OR EQU/	L TO 00%	RECHARG	E LEVEL (ŀ	i): circle (	one YES	NO	<u> </u>
SAMPLE TIME: SAMPLE APPE	1420		oudy /		D WATER:	1417	·	<u></u>
TOTAL GALLO	NS PURGE	); VL	<u>ې د</u>		·····			
			WELL FLU	D PARAME	TERS	1	1	1
CASE VOL.	0	0.5	1	1.5	2	2.5	3	POST
Ph	6.83	6.88	6.79	6.74	6.77	6.75	6.77	6.75
TEMP in °C	21.2	21.0	20.6	20.0	19.9	19.7	19.8	19.8
COND / SC	727	702	701	681	702	669	712	743
DTW								
Pump Depth								
			·					
Pump Rate			<u> </u>		<u> </u> ,-			

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3								
		DYS	ERT ENVIE PURGING		AL, INC. NG DATA	D	Fysert Envir	onmental, in
		WELI	_ PORGING			DATE: 10	-9-06	~
PROJECT: SITE LOCATION:	79117 4	SAN PAR	LO AVE					
SITE LOCATION:	. <u> </u>							
CITY: DAKLAN	0			STATE: C		-		
				E DEVICE	bladder pu	mn diso	osable baile	r
<u>aircle one</u> 12\	olt submers	sible pump	peristalti So <b>MP</b> U	c pump <u>NG DEVIC</u>		urb and		
	biadder put	mo	peristaltic (		disposable l		other	
<u>circle one</u> casing diameter (	-	circie one	0.75	<u>ې</u> 2		6		
casing volumes (	allons)	<u>circle_one</u>	0.02	ノ 0.2	0.7	1.52		
-	· · · · · · · · · · · · · · · · · · ·		WEL	LDATA				
SAMPLERIS: R.			W-3					
A TOTAL WELL	DEPTH:	25 3	v02					
B. DEPTH TO W	ATER:	74.24	_					
C. WATER HEIG	HT (A-B):	the to	71.18			V		· · · · · · · · · · · · · · · · · · ·
D. WELL CASIN	G DIAMETE		<del></del>	<u></u>				
E. CASING VOL	UNE;	R:   0,0,0, (CxE): ,	44		····			
G. CASE VOLUN	IE (s) (CxE	x 3 ):	1.32					
H: 80% RECHAR	IGE LEVEL	(F+B):	14-65					
			PUR	<u>GE DATA</u>		<u></u>		
START TIME: 1		······································		•				·····
PUMP DEPTH: FINISH TIME:	N/A 1135							
PUMP DEPTH:	A/A							
		N	RECHARGE	/SAMPL	<u>E TIME</u>	700	<u> </u>	
DEPTH TO WAT	ER: 1466			TIMENE	ASURED: j		NO NO	
GREATER THAT	1255	L 10 80%	KEONAK <u>S</u>		O WATER:			
SAMPLE APPE	RANCE	DOR: CA	ouby /	MA	· · · · · · · · · · · · · · · · · · ·			
TOTAL GALLON	IS PURGE	ア しその	(					· · · · · · · · · · · · · · · · · · ·
		<u> </u>	WELL FLU	<u>d Param</u> T	ETERS	1	r	······
CASE VOL.	0	0.5	1	1.5	2	2.5	3	POST
Ph	6.29	6.65	6.70	6.75	6.26	754	733	753
	21.9	21.3	21.0	20.7	20.3	20.5	20.2	20.0
TEMP in <sup>a</sup> C					1			
COND / SC	918	753	743	752	686	6.92	6.93	6.89
	1	1						
DTW		<u> </u>		<b>i</b>		<u> </u>	ļ	<u> </u>
Pump Depth							Ì	
ramp paper	+		<u>†                                    </u>	- <u> </u>			<b></b>	
Pump Rate				<u> </u>				
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	Tark Oycon							
v - 4								
·		DYS	ERT ENVIE	RONMENT/	L, INC.	ſ	)vsert Envi	ronmental, in
		WELL	, PURGING	i / SAMPLI	NG DATA		- 9- 0	
PROJECT:		en Das	REA AUE				(- 4)	0
PROJECT: SITE LOCATION	1: ZAAZ -							
CITY: OAKLAN	107			STATE: C	£	·		
·····		· · ·		E DEVICE			osable baik	
<u>circle one</u> 12	volt submers	sible pump	peristaki	c pump <u>ING DEVICI</u>	biadder pur			
	biodec pr	-	peristaltic.		isposable b	aile	other	
<u>circle one</u> casing diameter I	bladder pui (inches)	<u>çircle one</u>	(0.75	2	4	6		
casing volumes (	<b>*</b>	circle one	0.02	0.2	0.7	1 52		
-			WEL	<u>L DATA</u>				
SAMPLER/S:			14 June 11					,
A TOTAL WELL	DEPTH:	40,1						
B. DEPTH TO W	VATER:	12.21						
C. WATER HEIG	GHT (A-B):	77.	12		· · · · · · · · · · · · · · · · · · ·			
D. WELL CASIN	G DIAMETE	<u>R:  </u> の.ぃヱ.						
E. CASING VOL F. SINGLE CAS	F VOLUME		54					
G. CASE YOLU	ME (s) (CxE	x 3 ); [	162 3.53					
H: 80% RECHA	RGE LEVEL	(F+B): 1	<u>3,53                                   </u>	OF DATA	· · · · ·			
START TIME:	1230		<u> </u>	GE DATA				
PUMP DEPTH:	N/A						<u>.</u>	
FINISH TIME:	1259					, and the second se		
PUMP DEPTH:	N/A			/ SAMPLE	THE			;
DEPTH TO WA			CONANOL	TIME MEA		•		
GREATER THA	N OR EQUA	L TO 80%	RECHARG	E LEVEL (H	): circle a	ne YES	(NO) /	VAITED ZHE
SAMPLE TIME:	1500			<u>DEPTH TO</u>	WATER:	15.79		<u> 17</u> 20
SAMPLE APPE	ARANCE / C		LEAR / L.	<u>4</u>				······
TOTAL GALLO			NELL FLUI		TERS		-	
CASE VOL.	0	0.5	1	1.5	2	2.5	3	POST
	1	· · · · · · · · · · · · · · · · · · ·	7 72	7.35	7.32-	7.34	7.31	7.33
Ph	7.25	7.33	7.33	<u> </u>			1.21	· · · · · · · · · · · · · · · · · · ·
	211	20.2	i9.8	19.7	19.5	19.1	19.1	19.1
TEMP In °C		1	1	E PAGE	1010	1017	996	1003
TEMP in °C	1022	1012	1007	1006	,0.0			
		1012	1007	1006	1010			
COND / SC DTW		1012	1007	1006	,0.0	<b></b>		
COND / SC DTW Pump Depth		1012	1007					
COND / SC DTW		1012	(00]					
COND / SC DTW Pump Depth			AGE 2		5			

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		-	SERT ENV		TAL INC.		F	 •
			JENI ENV	GISAMPL	ING DATA		Dysert Env	ironmental, Ir
						DATE: 10	2- 9- 0G	, a
PROJECT: SITE LOCATION	1-2942	SAN I	ABLO A	,Jଙ.				
SHE COURTER								
CITY: OAKLA	<u>du</u>			STATE: (		<u> </u>		
				GE DEVICE				time of
circle one 12	volt subme	rsible pump	peristal	ltic pump	bladder p		posable bail	er /
				ING DEVIC	E	hailor	other	
<u>circle one</u>	bladder pu		peristaliic		disposable	4 6		
casing diameter	(inches)	<u>circle one</u>		· · · · · · · · · · · · · · · · · · ·	-			
cacing volumes (	galions)	<u>circle one</u>		LL DATA	· LJ.	1.44	-	
SAMPLER/S: 14	NICO							
WELL NUMBER		DINT ID:	mw-5					
A. TOTAL WELL			91.66					
B. DEPTH TO W	ATER:	<u> </u>	5.13					
C. WATER HEK	GHT (A-B):		26-53					
D. WELL CASIN	G DIAMET	ER: 1						
E. CASING VOL		0.07						<u> </u>
F. SINGLE CAS			.53					
G. CASE VOLU			(159			÷.		
H: 80% RECHAI	KGE LEVE	_ (F+B):	13.60					
			PUR	RGE DATA				
START TIME:								· ····
PUMP DEPTH:	NIA_				• • • • •			, ,, ,, .a
FINISH TIME: PUMP DEPTH:	1225							
FOME DEFIN	~//1		RECHARG	E/SAMPL	ETIME			
DEPTH TO WAT	ER: 22			TIME ME				
GREATER THA			RECHARG		A MAR AND A REAL PROPERTY OF THE REAL PROPERTY	one YES	TNO W	SALTED ZUR
SAMPLE TIME:			/		O WATER:			
SAMPLE APPE	RANCE / I		ouby / ~				<u> </u>	
TOTAL GALLO	NS PURGE						<b>T</b>	
, <u></u>	1		WELL FLU	D PARAM	ETERS	<u></u>	- <u></u>	
CASE VOL.	o	0.5	1	1.5	2	2.5	3	BOST
	1	1	<u> </u>	1.2		2.3	<u> </u>	POST
Ph	1.11	7.55	7.62	7.61	7.64	17.70	7.66	7.69
				╈┯┷┷╏╾	~~~~~	1	<u></u>	1
TEMP in °C	20.0	19.9	19.4	20.0	19.8	19.3	19.6	19.3
<b></b>	and	T	· · · · · · · · · · · · · · · · · · ·	000	0		1	
COND / SC	877	867	864	868	805	841	830	849
				T	T	T	1	
	·		1				1	<u> </u>
DTW	1							· ·
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Pump Depth			1				1	
Pump Depth			1		1			
			ļ					
Pump Depth								

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## APPENDIX B LABORATORY ANALYTICAL DATA SHEETS AND CHAIN OF CUSTODY



"When Ouality 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	Client Project ID: 2942 San Pablo	Date Sampled: 09/20/06
1330 S. Bascom Avenue, Ste. F		Date Received: 09/20/06
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 09/27/06
5415050, 011 75120	Client P.O.:	Date Completed: 09/27/06

#### WorkOrder: 0609403

September 27, 2006

#### Dear Joel:

Enclosed are:

- 1). the results of 2 analyzed samples from your 2942 San Pablo project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence

in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

N	<b>I</b> CAMPE	RELLAN		TIC						100												1		$\cap($	) 9	40	1
		2" AVENU	E SOUT	H #D'	AL II	NC.									С	HA	IN	0	FC	U	STO	$\frac{1}{OD}$		EC	COR		_
Telephone: (	925) 198-16	20			Faxe	(025)	700	1 ( 2 2				<b>FUF</b>	RN	AR							10				And a second sec		
Report To: Tool	C				Fax: (	925)	/98-	1622			6	DEI	Page		f a	PD	F			RU	SH	24	HR	48	↓ 8 HR ⁄) No	72 H	
Company: DIEDS	Greger	-	Bill	Го: /	PER	5					1	UT I	requ	urea	1? C	oelt	(No	rma	))	No	V	Vrite	e On	(DW	/) No	) ~ KL	IX.
(331) S	Environ	montay									-				A	nalỳ	sis F	lequ	est						Other	Co	m
Sanlos	OA OF	Ave Si	ife f	=							1		&F)							-	z						-
Tele: 0510 592	CA 75.	128	E-M	lail:							TBE	2	¢F/B								1100					1	
Project #:	5000		Fax:	050	10	787	14	57	7		8015)/MTBE	81	0 Ed	<u>.</u> .					0.01	Ina	X2					Vices	N
Report To: Joel Company: PIERS 1330 5.1 SanJose Tele: ()570 593 Project #: Project Location: 20 Sampler Signature:	942 50	n. h. l	Proje	ect Na	me: Z	942	2 5	en p	ab	10	801	0	rease (5520 E&F/B&F)	rbons (418.1)					0120/0220/32	2 s	4					1.	1
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	5.	AMPLING				ATR		M	ETH	OD VED		15)	11 &	ydro	A 60		B's	260	Ade	4		9.2/				sis	00
SAMPLE ID	CATION		ner	tain					JER	TED	is Ga	1 (80			(EP	0	0 PC	S.	bv	S	2	1/23				6	1
(Field Point Name) LOC	Da	te Time	# Containers	Type Containers							Hd.	iese	oleu	/ 80	ILY	808	808	824	120 VA'S	fetal	etals	/742				3	tar no
	Da	ie linne	Con	pe (	Water		dge		_ lć	er 3	187	as D	Petr	501	NO X	08 /	08 /	24/	/ d/	N LI	2 Me	240				-	5
			#	Ty	Wat	Air	Sludge Other	Ice	HNO,	Other	BTEX & TPH	TPH as Diesel (8015)	Lotal Petroleum Oil & C	EPA 601 / 8010	BTEX ONLY (EPA 602	EPA 608 / 8080	PA (	9 V 0	d s' ANY / s' HAG	CAM-17 Metals 7. 1	LUFT 5 Metals	Lead (7240/7421/239.2/6110)	_			8	per
354A 20	7.5 9.20	-06 8: 37A	M 1	line	+X		-							- Ш	<u> </u>	ш	ш	표 [	P	õ	E	Le.	RCI				~
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elinguished By:	Date:	T													-		-										Selected.
Join	Pholos	Time:	Receiv	ed By:	7																						
elinquished By	Pate;	Time:	Pari	28	AL	2					ICE												VOLO			. 1	
Ban	920/0		Receiv	ea By	$\bigcirc$						ICE/ GOC		ONI		ON:	_		Р	RES	ERV	ΆΤΙ	ON	VOAS	08	¢G M	ETALS	(
clinquished By:	Date:	Time:	Pagai	1.0 -	X	5	-ca				HEA	D SI	PAC	E AB	SEN	T		A	PPR	OPF	RIAT	E		and the second se			-
1 AX	9/20	355	Receive	a By:			) - (			1	DEC	HLC	DRIN	ATE	ED II	N LA	B		ONT PER	AIN SEF	(ERS VEI	D IN	LAB				
	-400		C	>	$\leq$																~~~	- 411	SAD.				

SS3A

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

А

Page 1 of 1

(925) 252-926	52			Wo	orkOrd	er: 06	09403		Clier	ntID: F	PESJ		EDF	: YES	5		
Report to:							Bill to:						Requ	uested	TAT:	5	days
Joel Greger Piers Environme 1330 S. Bascom San Jose, CA 99	Avenue, Ste. F	Email: TEL: ProjectNo: PO:	(408) 559-1248 2942 San Pablo	( )	559-12	24	Piers 1330	s Envii ) S. Ba	Payable ronmen ascum / CA 951	tal Avenue	, Ste. F			e Recei e Print		09/20/ 09/20/	
					Γ				Re	quested	Tests (	See leg	end belo	ow)			
Sample ID	ClientSampID		Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0609403-001	SS4A-4D		Soil	09/20/2006		А		А	Α								

А

09/20/2006

#### Test Legend:

0609403-002

1	218_6m_S	2 8260B_S	3 CAM17MS_S	4 PREDF REPORT	5 TPH(DMO)_S
6		7	8	9	10
11		12			

The following SampID: 0609403-001A contains testgroup. Please make sure all relevant testcodes are reported. Many thanks.

Soil

**Prepared by: Nickole White** 

#### **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.

	CCampbell Analyti "When Ouality Counts"	ical, Inc	2.		Web: www.mccamp	Pass Road, Pittsburg, CA 94565- bbell.com E-mail: main@mccan 377-252-9262 Fax: 925-252-92	npbell.com	
Piers Environ	mental	Client Pro	ject ID:	2942 S	San Pablo	Date Sampled: 09/20	/06	
1330 S. Basco	om Avenue, Ste. F					Date Received: 09/20	/06	
San Jose, CA	95128	Client Co	ntact: Jo	el Gre	eger	Date Extracted: 09/20	/06	
		Client P.C	).:			Date Analyzed 09/21	/06	
		-		-	stion and IC-UV A	-		
Extraction method			Analytical m	1			order: 060	
Lab ID	Client ID	Matrix	Extract	ion	Не	exachrome	DF	% SS
0609403-001A	SS4A-4D	S	TTL	С		ND	1	N/A

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

McCampbell	Analyti	cal,	Inc.		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		Clier	nt Proje	ect ID:	2942 San Pablo	Date S	ampled: 09/20/0	6			
			5				eceived: 09/20/0	6			
1330 S. Bascom Avenue, Ste. I	F	CI.		<b>T</b>	10			-			
G I GL 05100					el Greger		xtracted: 09/20/0	-			
San Jose, CA 95128		Clie	nt P.O.:			Date A	nalyzed 09/26/0	6			
	Volatile O	rgani	cs by P	&T and	l GC/MS (Basic Target	List)*					
Extraction Method: SW5030B		8	-		od: SW8260B		Work Ore	der: 060	9403		
Lab ID					0609403-002A						
Client ID			SS3A								
Matrix Soil											
Compound	Concentration * DF Reporting Limit Compound						Concentration *	DF	Reporting Limit		
Acetone	ND<0.5		10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05		
Acrylonitrile	ND<0.2		10	0.03	tert-Amyl methyl ether (	TAME)	ND<0.050	10	0.005		
Benzene	ND<0.05		10	0.005	Bromobenzene		ND<0.050	10	0.005		
Bromochloromethane							ND<0.050	10	0.005		
Bromoform	ND<0.050 10 0.005 Bromomethane						ND<0.050	10	0.005		
2-Butanone (MEK)		ND<0.20 10 0.02 t-Butyl alcohol (TBA)					ND<0.50	10	0.05		
n-Butyl benzene	ND<0.05		10	0.005	sec-Butyl benzene	ND<0.050	10	0.005			
tert-Butyl benzene Carbon Tetrachloride	ND<0.05 ND<0.05		10 10	0.005			ND<0.050 ND<0.050	10 10	0.005		
Chloroethane	ND<0.05		10	0.005	2-Chloroethyl Vinyl Ethe	r	ND<0.030	10	0.003		
Chloroform	ND<0.05		10	0.005	Chloromethane	1	ND<0.050	10	0.005		
2-Chlorotoluene	ND<0.05		10	0.005	4-Chlorotoluene		ND<0.050	10	0.005		
Dibromochloromethane		ND<0.050		0.005	1,2-Dibromo-3-chloropropane		ND<0.050	10	0.005		
1,2-Dibromoethane (EDB)	ND<0.05	50	10	0.005	Dibromomethane		ND<0.050	10	0.005		
1,2-Dichlorobenzene	ND<0.05	50	10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005		
1,4-Dichlorobenzene	ND<0.05		10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005		
1,1-Dichloroethane	ND<0.05		10	0.005	1,2-Dichloroethane (1,2-	DCA)	ND<0.050	10	0.005		
1,1-Dichloroethene trans-1,2-Dichloroethene	ND<0.05 ND<0.05		10 10	0.005	cis-1,2-Dichloroethene 1,2-Dichloropropane		0.97 ND<0.050	10 10	0.005		
1,3-Dichloropropane	ND<0.05		10	0.005	2,2-Dichloropropane		ND<0.050	10	0.005		
1,1-Dichloropropene	ND<0.05		10	0.005	cis-1,3-Dichloropropene		ND<0.050	10	0.005		
trans-1,3-Dichloropropene	ND<0.05		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005		
Ethylbenzene	0.0	060	10	0.005	Ethyl tert-butyl ether (ET	TBE)	ND<0.050	10	0.005		
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005		
Hexachloroethane	ND<0.05		10	0.005	2-Hexanone		ND<0.050	10	0.005		
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005		
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	0.0 ND<0.05	)58	10 10	0.005	Methylene chloride Naphthalene		ND<0.050 0.079	10 10	0.005		
Nitrobenzene	ND<0.03		10	0.003	n-Propyl benzene		0.079 ND<0.050	10	0.005		
Styrene	ND<0.05		10	0.005	1,1,1,2-Tetrachloroethan	e	ND<0.050	10	0.005		
1,1,2,2-Tetrachloroethane	ND<0.05		10	0.005	Tetrachloroethene	•	ND<0.050	10	0.005		
Toluene	ND<0.05		10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005		
1,2,4-Trichlorobenzene	ND<0.05		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005		
1,1,2-Trichloroethane ND<0.050 10 0.005					Trichloroethene		0.45	10	0.005		
Trichlorofluoromethane ND<0.050 10 0.005							ND<0.050	10	0.005		
1,2,4-Trimethylbenzene Vinyl Chloride	0. ND<0.05	33	10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050 0.12	10 10	0.005		
	I IND<0.05	0			coveries (%)		0.12	10	0.003		
%SS1:		94		Sare NC	%SS2:		92				
%\$\$\$1. %\$\$\$3:		109			/0002.		92				
Comments:		102									

\* water and vapor samples are reported in  $\mu$ g/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  $\mu$ g/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  $\sim 1$  vol. % sediment; j) sample diluted 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 An "When Ouality		cal, In	<u>c.</u>	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		Client Pr	oject ID:	2942 Sa	an Pablo	Date Sampled:	09/20/06				
			5			1	Date Received: 09/20/06				
1330 S. Bascom Avenue, Ste. F		Client C	ontact: Jo	el Greg	er	Date Extracted:					
G L GL 05100											
San Jose, CA 95128		Client P.	Client P.O.: Date Analyzed 09/22/06								
		С	AM / CCR	R 17 Me	tals*						
Lab ID	06094	03-001A					Reporting Lin	nit for DF =1;			
Client ID	SS4	IA-4D					ND means r above the re	not detected porting limit			
Matrix		S					S	W			
Extraction Type	T	TLC					mg/Kg	mg/L			
		ICP-N	IS Metals,	Conce	ntration*						
Analytical Method: 6020A		Extra	action Method	1: SW305	50B	•	Work Order:	0609403			
Dilution Factor		1					1	1			
Antimony		ND					0.5	NA			
Arsenic		4.2					0.5	NA			
Barium		150					5.0	NA			
Beryllium	1	ND					0.5	NA			
Cadmium	(	).44					0.25	NA			
Chromium		47					0.5	NA			
Cobalt		8.0					0.5	NA			
Copper		22					0.5	NA			
Lead		56					0.5	NA			
Mercury	0	.060					0.05	NA			
Molybdenum	(	0.80					0.5	NA			
Nickel		35					0.5	NA			
Selenium		ND					0.5	NA			
Silver		ND					0.5	NA			
Thallium		ND					0.5	NA			
Vanadium		38					0.5	NA			
Zinc		60					5.0	NA			
%SS:		106					<u> </u>				
Comments											
*water samples are reported in µg/L, prod mg/L, soil/sludge/solid samples in mg/kg, v # means surrogate diluted out of range; N instrument.	wipe sam	ples in µg/v	vipe, filter s	amples i	n μg/filter.		-				

i) aqueous sample containing greater than  $\sim 1$  vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

When Ouality Counts"	<u>ical, Inc.</u>	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	Client Project ID:	•	Date Sampled: 09/20/06				
1330 S. Bascom Avenue, Ste. F			Date Received: 09/20/06				
	Client Contact: Jo	Client Contact: Joel Greger Date Extracted: 09/21/06					
San Jose, CA 95128	Client P.O.:		Date Analyzed 09/21/06				
	Chemical Oxygen	Demand (COD)*					
Analytical Method:     SM5220D       Lab ID     Client ID	Matrix	<u> </u>	Work Order: 0	DF			
0609403-001A SS4A-4D	S		27,000	1			

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

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

<u> </u>	Campbell Analyti	cal, Inc.		Web: www.mccamp	Pass Road, Pittsburg, CA bell.com E-mail: maii 377-252-9262 Fax: 92		com		
Piers Environm	nental	Client Project ID: 2	2942 San	Pablo	Date Sampled:	09/20/06			
1330 S. Bascor	m Avenue, Ste. F				Date Received:	09/20/06			
San Jose, CA 9	5128	Client Contact: Jo	el Greger		Date Extracted:	Date Extracted: 09/20/06			
	5120	Client P.O.:			Date Analyzed	09/21/06			
		pł	<b>I</b> *						
Analytical Method:	SW9045C Client ID		Matrix		ъН	Work Order:	0609403		
					pH				
0609403-001A	SS4A-4D		S		7.37 @ 23.9	°C			
Method Ac	curacy and Reporting Units		W		NA	രംഗ			
			S		$\pm 0.1$ , pH units (	<u>س</u> -ر			

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

	Campbell Analyti	cal, Inc.	Web: www.mccamp	Pass Road, Pittsburg, CA 945 pbell.com E-mail: main@mc 877-252-9262 Fax: 925-252	campbell.com	1				
Piers Environm	nental	Client Project ID:	2942 San Pablo	Date Sampled: 09/	20/06					
1330 S. Bascon	n Avenue, Ste. F			Date Received: 09/	20/06					
San Jose, CA 9	5128	Client Contact: Jo	Client Contact: Joel Greger Date Extracted: 09/20/06							
Sui Jose, eri J.	5120	Client P.O.: Date Analyzed 09/26/06								
	Diesel (C10-23) and Oil (									
Extraction method: S	W3550C	Analytical metho	ods: SW8015C		k Order: 06					
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS				
0609403-002A	SS3A	S	120,g,d,b	1000	10	100				
	orting Limit for DF =1;	W	NA	NA	ug	/L				
	neans not detected at or ove the reporting limit	S	1.0	5.0	-	/Kg				

\* water samples are reported in  $\mu g/L$ , wipe samples in  $\mu g/wipe$ , 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  $\mu g/L$ .

# 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/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.



"When Ouality Counts"

### QC SUMMARY REPORT FOR E218.6m

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0609403

EPA Method: E218.6m	Method: E218.6m Extraction: SW3060A					BatchID: 23797 Spiked Sample ID: 06093				0609365-0	101a	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	-MSD LCS LCSD LCS-LCSD Accep			cceptan	nce Criteria (%)		
, individ	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	ND	40	102	104	2.53	93.1	96.5	3.59	80 - 120	20	90 - 110	10
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

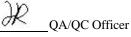
BATCH 23797 SUMMARY										
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed			
0609403-001	9/20/06 8:37 AM	9/20/06	9/21/06 6:19 PM							

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 applicable to this method.





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609403

EPA Method SW8260B	E	xtraction	SW503	0B		BatchI	D: 23787	S	Spiked San	nple ID	: 0609343-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (º	%)
, maly to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME	ND	0.050	101	103	2.46	105	109	3.56	70 - 130	30	70 - 130	30
Benzene	ND	0.050	96.9	98.8	1.80	98.7	107	7.87	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	91.3	86.1	5.89	98.5	124	22.5	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	101	101	0	93.7	99.7	6.20	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.1	95.1	0	93.1	93.4	0.306	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	115	121	4.94	119	124	4.27	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	116	117	0.517	108	111	3.45	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	117	121	2.99	116	120	3.84	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	111	114	3.28	111	116	3.63	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	0.011	0.050	90.2	93	2.50	115	120	3.87	70 - 130	30	70 - 130	30
Toluene	ND	0.050	88.6	88.4	0.227	90.4	87.9	2.84	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	97.2	98.7	1.59	91.3	97	6.02	70 - 130	30	70 - 130	30
%SS1:	112	0.050	105	106	0.689	105	103	1.47	70 - 130	30	70 - 130	30
%SS2:	98	0.050	106	105	0.639	106	96	9.90	70 - 130	30	70 - 130	30
%SS3:	92	0.050	106	107	0.800	109	106	2.59	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 exception NONE

#### BATCH 23787 SUMMARY

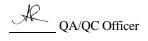
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/20/06	9/26/06 7:11 AM				

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.





"When Quality Counts"

### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil			QC Matrix: Soil					WorkOrder 0609403					
EPA Method 6020A			Extract	tion SW3	050B		Bato	:hID: 23840	6	Spiked Sample ID 0609397-052A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria (%)	)
, and y to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD
Antimony	ND	50	100	99.4	0.736	10	99.2	101	1.51	75 - 125	20	80 - 120	20
Arsenic	5	50	92.7	93	0.331	10	94.2	94.9	0.761	75 - 125	20	80 - 120	20
Barium	290	500	95.7	96	0.207	100	96.4	97.8	1.48	75 - 125	20	80 - 120	20
Beryllium	0.72	50	89.5	89.6	0.110	10	98.7	102	3.36	75 - 125	20	80 - 120	20
Cadmium	ND	50	95	94.6	0.464	10	95.5	95.8	0.303	75 - 125	20	80 - 120	20
Chromium	41	50	82.5	86.6	2.47	10	90.9	92.6	1.86	75 - 125	20	80 - 120	20
Cobalt	13	50	84.5	84.1	0.328	10	95.4	99.3	3.95	75 - 125	20	80 - 120	20
Copper	24	50	89.1	91.3	1.59	10	95.2	95.3	0.105	75 - 125	20	80 - 120	20
Lead	10	50	94	93.7	0.193	10	96.4	98	1.74	75 - 125	20	80 - 120	20
Mercury	ND	2.5	102	100	1.14	0.50	103	104	1.33	75 - 125	20	80 - 120	20
Molybdenum	0.50	50	93.3	92.6	0.766	10	95	95.6	0.608	75 - 125	20	80 - 120	20
Nickel	42	50	90.7	94.3	2.01	10	93.8	94.8	1.10	75 - 125	20	80 - 120	20
Selenium	ND	50	95.6	94.3	1.28	10	93	94.4	1.49	75 - 125	20	80 - 120	20
Silver	ND	50	91.3	90.7	0.636	10	94.5	95.2	0.791	75 - 125	20	80 - 120	20
Thallium	ND	50	92.4	93.4	1.08	10	89.4	92.1	2.98	75 - 125	20	80 - 120	20
Vanadium	72	50	81.1	88.1	3.05	10	91.2	92.6	1.51	75 - 125	20	80 - 120	20
Zinc	56	500	94.3	94	0.304	100	97.7	98.6	0.917	75 - 125	20	80 - 120	20
%SS:	108	250	105	107	2.41	250	101	102	1.58	70 - 130	20	70 - 130	20

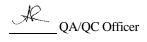
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 6020A

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

			BATCH	23846 SUMMARY			
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-001A	9/20/06 8:37 AM	9/20/06	9/22/06 2:29 AM				

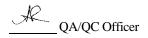
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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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"When Ouality Counts"

### QC SUMMARY REPORT FOR SM5220D

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SM5220D Extraction SM5220D BatchID: 23796 Spiked Sample ID: 0609365-001A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD COD 3200 10000 109 104 3.45 106 99.6 6.41 90 - 110 20 90 - 110 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 23796 SUMMARY

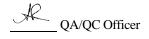
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-001	9/20/06 8:37 AM	9/21/06	9/21/06 4:55 PM				

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.





"When Ouality Counts"

### QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:		Matrix: S							WorkOrder: 0609403					
Method Nam	Method Name: SW9045C					Uni	its ±, pH un	iits @ °C			BatchID: 23847			
SampleID		Samp	le	D	)F [	Dup / S	Ser. Dil.	DF	R	C	Acce	ptance Criteria		
0609403-001A		7.37 @ 2	3.9 °C		1 7	.38 @	₽ 24.0 °C	1	0.0	)1		±0.05		
Sample ID	Date	e Sampled	Date Extra	acted	BATCH 2 Date Analyze		SUMMARY Sample ID		Date Sampled	Date B	Extracted	Date Analyzed		
0609403-001A	9/20/	06 8:37 AM	9/20	)/06 9	0/21/06 8:30 1	PM	0609403-00	1A 9	0/20/06 8:37 Al	M	9/20/06	9/21/06 8:30 PM		

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}; RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2].

DHS ELAP Certification Nº 1644

R\_\_QA/QC Officer



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8015C

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SW8015C Extraction SW3550C BatchID: 23830 Spiked Sample ID: 0609374-005A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD TPH(d) ND 20 102 105 2.65 97.9 101 3.00 70 - 130 30 70 - 130 %SS: 92 50 102 105 2.22 103 106 2.12 70 - 130 30 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 23830 SUMMARY

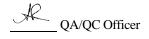
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/20/06	9/26/06 3:15 PM				

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.



RPD

30

30



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Piers Environmental	Client Project ID: 2942 San Pablo	Date Sampled: 09/20/06
1330 S. Bascom Avenue, Ste. F		Date Received: 09/20/06
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 09/27/06
5410050, 011 75120	Client P.O.:	Date Completed: 10/03/06

#### WorkOrder: 0609403

October 03, 2006

Dear Joel:

Enclosed are:

- 1). the results of 2 analyzed samples from your 2942 San Pablo project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence

in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

Itel (Jul)		McCAM	PBELI	ΔΝΔΙ	VT			NC										H			F	CII	CT				FCI		
Telephone: (925) 798-1620       RUSII 1 24 HR 56 HR 721         RUSII 24 HR 5620       RUSII 24 HR 561R 721         RUSII 24 HR 5620       RUSII 24 HR 561R 721         RUSII 24 HR 561R 721         Compare of Compare			10 2 <sup>nd</sup> A	VENUE SO	UTH,	#D7		10.						TU	RN	AF								U		N			
Import To: 5/e/ Grager Bill To: P/EES       Analysis Request       Other       C         Company: P/EES Church Three Suff F         //330 S, Pascer Area Suff F         Sem/esc CF 95/28       E-Mail:         Project #:       Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 29/2 Sem Public         Sampler Signature:       Project Marker V Project Name: 20/2 Sem Public         Sampler Signature:       Project Marker V Proje	Telepho	ne: (925) 798		CO, CA 945	53-550		ax: (	(925)	798-1	622													JSH	i	24 H	R	<b>¥</b> 8	HR	72 HR
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Project #:       Project Name: CTL2 Som Pable         Sampler Signature:       Project Name: CTL2 Som Pable         SAMPLE ID       SAMPLING         SAMPLE ID       Incortanon         SAMPLE       Incortanon <td>Company: C/F</td> <td>PS Day</td> <td>mon mo-</td> <td>ntal</td> <td>111 1 0</td> <td>: [7]</td> <td>ER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>Anar</td> <td>515 1</td> <td>Lequ</td> <td>lest</td> <td></td> <td></td> <td>a na an an</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	Company: C/F	PS Day	mon mo-	ntal	111 1 0	: [7]	ER							1				Anar	515 1	Lequ	lest			a na an			-		
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1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-92	62			Wo	rkOrd	ler: 06	509403		Clie	ntID: 1	PESJ		EDF	YES	5		
Report to:							Bill to:		_				Req	uested	TAT:	5	days
Joel Greger Piers Environme 1330 S. Bascorr San Jose, CA 9	n Avenue, Ste. F	Email: TEL: ProjectNo: PO:	(408) 559-12 2942 San Pa	( )	559-12	224	Pie 13	counts ers Envi 30 S. B n Jose,	ronmer ascum	ntal Avenue	, Ste. F			e Rece e Print		09/20 09/28	
									Re	quested	l Tests	(See leg	end bel	ow)			
Sample ID	ClientSampID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0609403-001	SS4A-4D		Soil	9/20/06 8:37:00 AN	Λ	Α		Α	Α		Α						
0609403-002	SS3A		Soil	9/20/06 8:01:00 AN	Λ	А	Α			Α		А					

#### Test Legend:

1	218_6m_S	2 8260B_S	3 CAM17MS_S	4 CN_S	5 METALSMS_S
6	PREDF REPORT	7 TPH(DMO)_S	8	9	10
11		12			

The following SampIDs: 0609403-001A, 0609403-002A contain testgroup. Please make sure all relevant testcodes are reported. Many thanks.

**Prepared by: Nickole White** 

### Comments: as cd cr cu ni zn & ttlc cr6 added 9/27/06 per email

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.

	CCampbell Analyti "When Ouality Counts"	ical, Inc	Seal, Inc.         1534 Willow Pass Road, Pittsburg, CA 94565           Web: www.mccampbell.com         E-mail: main@mcca           Telephone: 877-252-9262         Fax: 925-252-9								
Piers Environ	mental	Client Pro	ject ID:	2942 S	San Pablo	Date Sampled: 09/20	/06				
1330 S. Basco	om Avenue, Ste. F					Date Received: 09/20/06					
San Jose, CA	95128	Client Co	ntact: Jo	el Gre	eger	Date Extracted: 09/20	/06				
		Client P.C	).:			Date Analyzed 09/21	/06				
	TTLC Hexa	-		-							
Extraction method			Analytical m	1			order: 060				
Lab ID	Client ID	Matrix	Extract	ion	He	exachrome	DF	% SS			
0609403-001A	SS4A-4D	S	TTL	С		ND	1	N/A			

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

	CCampbell Analyti "When Ouality Counts"	ical, Inc	2.		Web: www.mccamp	ass Road, Pittsburg, CA 94565- bell.com E-mail: main@mccam 77-252-9262 Fax: 925-252-92	pbell.com					
Piers Environ	imental	Client Pro	oject ID:	2942 S	an Pablo	Date Sampled: 09/20	/06					
1330 S. Basco	om Avenue, Ste. F					Date Received: 09/20/06						
San Jose, CA	95128	Client Co	ontact: Jo	el Greg	ger	Date Extracted: 09/28	/06					
		Client P.C	).:			Date Analyzed 09/28	/06					
Frates of a second set		-		-	tion and IC-UV A	-	-1 0.60	0402				
Extraction method Lab ID	Client ID	Matrix	Analytical m Extract	1		Work Order: Hexachrome DF						
0609403-002A	SS3A	S	TTL	C		ND	1	N/A				

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

McCampbell	Analyti	cal,	Inc.		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		Clier	nt Proje	ect ID:	2942 San Pablo	Date S	ampled: 09/20/0	6			
			5				eceived: 09/20/0	6			
1330 S. Bascom Avenue, Ste. I	F	CI.		<b>T</b>	10			-			
G I GL 05100					el Greger		te Extracted: 09/20/06				
San Jose, CA 95128		Clie	nt P.O.:			Date A	nalyzed 09/26/0	6			
	Volatile O	rgani	cs by P	&T and	l GC/MS (Basic Target	List)*					
Extraction Method: SW5030B		8	-		od: SW8260B	,	Work Or	der: 060	9403		
Lab ID					0609403-002A						
Client ID					SS3A						
Matrix					Soil						
Compound	Concentrati	on *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit		
Acetone	ND<0.5		10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05		
Acrylonitrile	ND<0.2		10	0.03	tert-Amyl methyl ether (	TAME)	ND<0.050	10	0.005		
Benzene	ND<0.05		10	0.005	Bromobenzene		ND<0.050	10	0.005		
Bromochloromethane	ND<0.05	50	10	0.005	Bromodichloromethane		ND<0.050	10	0.005		
Bromoform	ND<0.05		10	0.005	Bromomethane		ND<0.050	10	0.005		
2-Butanone (MEK)	ND<0.2		10	0.02	t-Butyl alcohol (TBA)		ND<0.50	10	0.05		
n-Butyl benzene	ND<0.05		10	0.005	sec-Butyl benzene		ND<0.050	10	0.005		
tert-Butyl benzene Carbon Tetrachloride	ND<0.05 ND<0.05		10 10	0.005	Carbon Disulfide Chlorobenzene		ND<0.050 ND<0.050	10 10	0.005		
Chloroethane	ND<0.05		10	0.005	2-Chloroethyl Vinyl Ethe	r	ND<0.030	10	0.003		
Chloroform	ND<0.050 10			0.005	Chloromethane	1	ND<0.050	10	0.005		
2-Chlorotoluene				0.005	4-Chlorotoluene		ND<0.050	10	0.005		
Dibromochloromethane	ND<0.05		10	0.005	1,2-Dibromo-3-chloropro	pane	ND<0.050	10	0.005		
1,2-Dibromoethane (EDB)	ND<0.05	50	10	0.005	Dibromomethane		ND<0.050	10	0.005		
1,2-Dichlorobenzene	ND<0.05	50	10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005		
1,4-Dichlorobenzene	ND<0.05		10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005		
1,1-Dichloroethane	ND<0.05		10	0.005	1,2-Dichloroethane (1,2-	DCA)	ND<0.050	10	0.005		
1,1-Dichloroethene trans-1,2-Dichloroethene	ND<0.05 ND<0.05		10 10	0.005	cis-1,2-Dichloroethene 1,2-Dichloropropane		0.97 ND<0.050	10 10	0.005		
1,3-Dichloropropane	ND<0.05		10	0.005	2,2-Dichloropropane		ND<0.050	10	0.005		
1,1-Dichloropropene	ND<0.05		10	0.005	cis-1,3-Dichloropropene		ND<0.050	10	0.005		
trans-1,3-Dichloropropene	ND<0.05		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005		
Ethylbenzene	0.0	060	10	0.005	Ethyl tert-butyl ether (ET	TBE)	ND<0.050	10	0.005		
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005		
Hexachloroethane	ND<0.05		10	0.005	2-Hexanone		ND<0.050	10	0.005		
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005		
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	0.0 ND<0.05	)58	10 10	0.005	Methylene chloride Naphthalene		ND<0.050 0.079	10 10	0.005		
Nitrobenzene	ND<0.03		10	0.003	n-Propyl benzene		0.079 ND<0.050	10	0.005		
Styrene	ND<0.05		10	0.005	1,1,1,2-Tetrachloroethan	e	ND<0.050	10	0.005		
1,1,2,2-Tetrachloroethane	ND<0.05		10	0.005	Tetrachloroethene	•	ND<0.050	10	0.005		
Toluene	ND<0.05		10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005		
1,2,4-Trichlorobenzene	ND<0.05		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005		
1,1,2-Trichloroethane	ND<0.05		10	0.005	Trichloroethene		0.45	10	0.005		
Trichlorofluoromethane	ND<0.05		10	0.005			ND<0.050	10	0.005		
1,2,4-Trimethylbenzene Vinyl Chloride	0. ND<0.05	33	10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050 0.12	10 10	0.005		
	I IND<0.05	0			coveries (%)		0.12	10	0.003		
%SS1:		94		Sare NC	%SS2:		92				
%\$\$\$1. %\$\$\$3:		109			/0002.		92				
Comments:		102									

\* water and vapor samples are reported in  $\mu$ g/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  $\mu$ g/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  $\sim 1$  vol. % sediment; j) sample diluted 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.

When Ouality 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		Client Pr	oject ID:	2942 Sa	an Pablo	Date Sampled:	09/20/06		
		-			Date Received: 09/20/06				
1330 S. Bascom Avenue, Ste. F						Date Extracted:			
G L GL 05100				ci oleg					
San Jose, CA 95128		Client P.0	0.:			Date Analyzed	09/22/06		
		С	AM / CCR	R 17 Me	tals*				
Lab ID	06094	03-001A					Reporting Lin	nit for DF =1;	
Client ID	SS4	IA-4D					ND means r above the re	not detected porting limit	
Matrix		S					S	W	
Extraction Type	T	TLC					mg/Kg	mg/L	
		ICP-N	IS Metals,	Conce	ntration*				
Analytical Method: 6020A		Extra	action Method	1: SW305	50B	•	Work Order:	0609403	
Dilution Factor		1					1	1	
Antimony		ND					0.5	NA	
Arsenic		4.2					0.5	NA	
Barium	1	150					5.0	NA	
Beryllium	1	ND					0.5	NA	
Cadmium	(	).44					0.25	NA	
Chromium		47					0.5	NA	
Cobalt		8.0					0.5	NA	
Copper		22					0.5	NA	
Lead		56					0.5	NA	
Mercury	0	.060					0.05	NA	
Molybdenum	(	0.80					0.5	NA	
Nickel		35					0.5	NA	
Selenium		ND					0.5	NA	
Silver		ND					0.5	NA	
Thallium		ND					0.5	NA	
Vanadium		38					0.5	NA	
Zinc		60					5.0	NA	
%SS:		106					<u> </u>		
Comments									
*water samples are reported in µg/L, prod mg/L, soil/sludge/solid samples in mg/kg, v # means surrogate diluted out of range; N instrument.	wipe sam	ples in µg/v	vipe, filter s	amples i	n μg/filter.		-		

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

<u>McCampbe</u>	ell Analyti en Ouality Counts"	cal, Inc	<u>-</u>	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		Client Proj	ect ID: 294	2942 San PabloDate Sampled:09/20/06				
1330 S. Bascom Avenue, St				Date Received:	09/20/06			
San Jose CA 05128	Client Cor	ntact: Joel	Greger	Date Extracted:	10/02/06			
San Jose, CA 95128	Client P.O	.:		Date Analyzed	10/02/06			
Cyanide, Total*^								
Analytical Method: SM4500-CN <sup>-</sup> E						Work Order: 06	509403	
Lab ID	Client ID		Matrix		Total Cyanide		DF	
0609403-001A	SS4A-4D		S		1.1		1	

Reporting Limit for DF = 1; ND means not detected at	W	NA	
or above the reporting limit	S	0.1 mg/Kg	

\* water samples are reported in µg/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.

^All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

i) liquid sample contains greater than  $\sim 1$  vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; k) sample pretreatment was done to remove interfering sulfide per E335.4; m) sample pretreatment was done to remove interfering nitrate and nitrite per E335.4; n) results are reported on a dry weight basis; p) see attached narrative.

When Ouality Counts"	<u>ical, Inc.</u>	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	Client Project ID:				
1330 S. Bascom Avenue, Ste. F			Date Received: 09/20/06		
	Client Contact: Jo	el Greger	Date Extracted: 09/21/06		
San Jose, CA 95128	Client P.O.:		Date Analyzed 09/21/06		
Analytical Method:     SM5220D       Lab ID     Client ID	Matrix	<u> </u>	Work Order: 0	DF	
0609403-001A SS4A-4D	S		27,000	1	

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

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

<u> </u>	Campbell Analyti "When Ouality Counts"	<u>cal, Inc.</u>	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 Environme		Client Project ID:					
1330 S. Bascom	Avenue, Ste. F			Date Received: 09/20/06			
		Client Contact: J	oel Greger	Date Extracted: 09/29/06			
San Jose, CA 95	128	Client P.O.:		Date Analyzed 09/29/06			
Analytical Method: S Lab ID	Client ID	Matri	ix	Work Order: 0	D609403		
0609403-002A	SS3A	S		12,000	1		
					_		
					-		
					+		
					+		

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

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

When Ouality 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 E	nvironmental			Clie	nt Project II	D: 2942 S	2942 San Pablo Date Sampled: 09/20/06						
1330 S	. Bascom Avenue, S	te. F							Date	e Received:	09/20/06		
San Jose, CA 95128						Joel Greg	ger		Dat	e Extracted:	09/28/06		
Sali JOS	e, CA 95128		_	Clie	nt P.O.:				Dat	e Analyzed	09/29/06		
						Metals*			·				
Extraction	Client ID	Matrix	Extract	tion	Analyti	cal methods ( Cadmium	5020A Chromium	Cop	nar	Nickel	Work Order: Zinc	0609 DF	9403 % SS
												Dr	
002A	SS3A	S	TTL	С	2.8	ND	30	1	2	22	22	1	102
	ing Limit for DF =1;	W	TTL	C	NA	NA	NA	N	A	NA	NA	1	NA
	ans not detected at or e the reporting limit	S	TTL	С	0.5	0.25	0.5	0.	.5	0.5	5.0	m	g/Kg

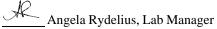
\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in  $\mu$ g/wipe, filter samples in  $\mu$ g/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification Nº 1644



McCampbell Analyti	ical, Inc.	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	Client Project ID: 2	2942 San PabloDate Sampled:09/20			09/20/06	
1330 S. Bascom Avenue, Ste. F				Date Received:	09/20/06	
San Jose, CA 95128	Client Contact: Jo	el Greger		Date Extracted:	09/20/06	
	Client P.O.:			Date Analyzed	09/21/06	
	pł	ł*			W. 1.0.1	0.000.400
Analytical Method: SW9045C Lab ID Client ID	)	Matrix		pH	Work Order:	0609403
0609403-001A SS4A-4D		S		7.37 @ 23.9	°C	
0007405-001A 354A-4D		5		1.57 @ 23.9	c	
		W		NA		
Method Accuracy and Reporting Units		S		±0.1, pH units (	@ °C	

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

	Campbell Analyti	ical, Inc.	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 Environn	nental	Client Project ID: 2	2942 San	Pablo	Date Sampled:	09/20/06			
1330 S. Bascor	m Avenue, Ste. F				Date Received:	09/20/06			
San Jose, CA 9	05128	Client Contact: Jo	el Greger		Date Extracted:	09/28/06			
	5120	Client P.O.:			Date Analyzed	09/28/06			
		pł	<b>]</b> *						
Analytical Method:	SW9045C Client ID		Matrix		рН	Work Order:	0609403		
	SS3A					°C			
0609403-002A	553A		S		7.78 @ 23.3	°C			
			337						
Method Ac	curacy and Reporting Units		W S		NA ±0.1, pH units (	@ °C			

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

	Campbell Analyti	cal, Inc.	Web: www.mccam	Pass Road, Pittsburg, CA 945 pbell.com E-mail: main@mc 877-252-9262 Fax: 925-252	campbell.con	ı
Piers Environm	nental	Client Project ID:	2942 San Pablo	Date Sampled: 09/	20/06	
1330 S. Bascor	n Avenue, Ste. F			Date Received: 09/	20/06	
San Jose, CA 9	5128	Client Contact: Jo	oel Greger	Date Extracted: 09/	20/06	
5an 5050, CTY 5	5120	Client P.O.:		Date Analyzed 09/	26/06	
	Diesel (C10-23) and Oil (					
Extraction method: S	SW3550C	Analytical metho	ods: SW8015C	Wor	k Order: 0	609403
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0609403-002A	SS3A	S	120,g,d,b	1000	10	100
	orting Limit for DF =1;	W	NA	NA	ug	/L
	neans not detected at or ove the reporting limit	S	1.0	5.0	mg	/Kg

\* water samples are reported in  $\mu g/L$ , wipe samples in  $\mu g/wipe$ , 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  $\mu g/L$ .

# 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/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.



"When Ouality Counts"

### QC SUMMARY REPORT FOR SM4500-CN<sup>-</sup> E

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SM4500-CN<sup>-</sup> E Extraction SM4500-CN<sup>-</sup> E BatchID: 23949 Spiked Sample ID: 0609530-002A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD Total Cyanide 0.12 0.80 96.4 97.4 0.896 97.3 95.9 1.53 80 - 120 20 90 - 110 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 23949 SUMMARY

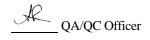
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-001	9/20/06 8:37 AM	10/02/06	10/02/06 1:20 PM				

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.





"When Ouality Counts"

## QC SUMMARY REPORT FOR E218.6m

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609403

EPA Method E218.6m	BatchID: 24002 Spiked Sample ID: 0609				: 0609403-0	02a						
Analyte	Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD					Ad	Acceptance Criteria (%)					
, maij to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	ND	40	87.8	96.9	9.85	92.9	96	3.28	80 - 120	20	90 - 110	10
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

#### BATCH 24002 SUMMARY

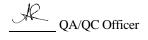
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/28/06	9/28/06 10:14 PM				

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 applicable to this method.





"When Ouality Counts"

## QC SUMMARY REPORT FOR E218.6m

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0609403

EPA Method: E218.6m	BatchID: 23797 Spiked Sample					nple ID:	D: 0609365-001a					
Analyte	Sample	Sample Spiked MS MSD MS					LCSD	LCS-LCSD	Acceptance Criteria (%			%)
, individ	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	ND	40	102	104	2.53	93.1	96.5	3.59	80 - 120	20	90 - 110	10
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

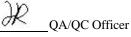
BATCH 23797 SUMMARY												
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed					
0609403-001	9/20/06 8:37 AM	9/20/06	9/21/06 6:19 PM									

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 applicable to this method.





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609403

EPA Method SW8260B	E	xtraction	SW503	0B		BatchI	D: 23787	S	Spiked San	nple ID	: 0609343-0	01A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ceptance Criteria (%)		
, maly to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
tert-Amyl methyl ether (TAME	ND	0.050	101	103	2.46	105	109	3.56	70 - 130	30	70 - 130	30	
Benzene	ND	0.050	96.9	98.8	1.80	98.7	107	7.87	70 - 130	30	70 - 130	30	
t-Butyl alcohol (TBA)	ND	0.25	91.3	86.1	5.89	98.5	124	22.5	70 - 130	30	70 - 130	30	
Chlorobenzene	ND	0.050	101	101	0	93.7	99.7	6.20	70 - 130	30	70 - 130	30	
1,2-Dibromoethane (EDB)	ND	0.050	95.1	95.1	0	93.1	93.4	0.306	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	115	121	4.94	119	124	4.27	70 - 130	30	70 - 130	30	
1,1-Dichloroethene	ND	0.050	116	117	0.517	108	111	3.45	70 - 130	30	70 - 130	30	
Diisopropyl ether (DIPE)	ND	0.050	117	121	2.99	116	120	3.84	70 - 130	30	70 - 130	30	
Ethyl tert-butyl ether (ETBE)	ND	0.050	111	114	3.28	111	116	3.63	70 - 130	30	70 - 130	30	
Methyl-t-butyl ether (MTBE)	0.011	0.050	90.2	93	2.50	115	120	3.87	70 - 130	30	70 - 130	30	
Toluene	ND	0.050	88.6	88.4	0.227	90.4	87.9	2.84	70 - 130	30	70 - 130	30	
Trichloroethene	ND	0.050	97.2	98.7	1.59	91.3	97	6.02	70 - 130	30	70 - 130	30	
%SS1:	112	0.050	105	106	0.689	105	103	1.47	70 - 130	30	70 - 130	30	
%SS2:	98	0.050	106	105	0.639	106	96	9.90	70 - 130	30	70 - 130	30	
%SS3:	92	0.050	106	107	0.800	109	106	2.59	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 exception NONE

#### BATCH 23787 SUMMARY

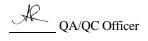
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/20/06	9/26/06 7:11 AM				

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.





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### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil					WorkOrder 0609403								
EPA Method 6020A			Extract	tion SW3	050B		Bato	:hID: 23840	6	Spiked S	Sample	ID 0609397-0	)52A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
, and y to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD
Antimony	ND	50	100	99.4	0.736	10	99.2	101	1.51	75 - 125	20	80 - 120	20
Arsenic	5	50	92.7	93	0.331	10	94.2	94.9	0.761	75 - 125	20	80 - 120	20
Barium	290	500	95.7	96	0.207	100	96.4	97.8	1.48	75 - 125	20	80 - 120	20
Beryllium	0.72	50	89.5	89.6	0.110	10	98.7	102	3.36	75 - 125	20	80 - 120	20
Cadmium	ND	50	95	94.6	0.464	10	95.5	95.8	0.303	75 - 125	20	80 - 120	20
Chromium	41	50	82.5	86.6	2.47	10	90.9	92.6	1.86	75 - 125	20	80 - 120	20
Cobalt	13	50	84.5	84.1	0.328	10	95.4	99.3	3.95	75 - 125	20	80 - 120	20
Copper	24	50	89.1	91.3	1.59	10	95.2	95.3	0.105	75 - 125	20	80 - 120	20
Lead	10	50	94	93.7	0.193	10	96.4	98	1.74	75 - 125	20	80 - 120	20
Mercury	ND	2.5	102	100	1.14	0.50	103	104	1.33	75 - 125	20	80 - 120	20
Molybdenum	0.50	50	93.3	92.6	0.766	10	95	95.6	0.608	75 - 125	20	80 - 120	20
Nickel	42	50	90.7	94.3	2.01	10	93.8	94.8	1.10	75 - 125	20	80 - 120	20
Selenium	ND	50	95.6	94.3	1.28	10	93	94.4	1.49	75 - 125	20	80 - 120	20
Silver	ND	50	91.3	90.7	0.636	10	94.5	95.2	0.791	75 - 125	20	80 - 120	20
Thallium	ND	50	92.4	93.4	1.08	10	89.4	92.1	2.98	75 - 125	20	80 - 120	20
Vanadium	72	50	81.1	88.1	3.05	10	91.2	92.6	1.51	75 - 125	20	80 - 120	20
Zinc	56	500	94.3	94	0.304	100	97.7	98.6	0.917	75 - 125	20	80 - 120	20
%SS:	108	250	105	107	2.41	250	101	102	1.58	70 - 130	20	70 - 130	20

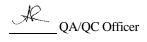
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 Nº 1644



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 6020A

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

			BATCH	23846 SUMMARY			
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-001A	9/20/06 8:37 AM	9/20/06	9/22/06 2:29 AM				

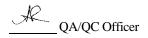
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 SM5220D

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SM5220D Extraction SM5220D BatchID: 23796 Spiked Sample ID: 0609365-001A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD COD 3200 10000 109 104 3.45 106 99.6 6.41 90 - 110 20 90 - 110 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 23796 SUMMARY

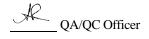
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-001	9/20/06 8:37 AM	9/21/06	9/21/06 4:55 PM				

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.





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## QC SUMMARY REPORT FOR SM5220D

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SM5220D Extraction SM5220D BatchID: 24001 Spiked Sample ID: 0609403-002A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD COD 12000 10000 105 108 1.37 109 106 2.87 90 - 110 20 90 - 110 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 24001 SUMMARY

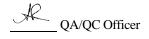
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/29/06	9/29/06 3:01 PM				

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.





"When Quality Counts"

### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil						QC Matrix:		WorkOrder: 0609403							
EPA Method: 6020A			Extract	ion: SW3	050B		Bato	hID: 23981		Spiked Sample ID: 0609551-001A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria (%)			
, individ	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD		
Arsenic	5.5	50	102	101	0.855	10	94.8	96.7	2.01	75 - 125	20	80 - 120	20		
Cadmium	0.5	50	97.4	97.4	0	10	94.9	94.3	0.550	75 - 125	20	80 - 120	20		
Chromium	33	50	95	94.7	0.236	10	90.4	91.6	1.33	75 - 125	20	80 - 120	20		
Copper	34	50	102	103	0.292	10	95.2	95.4	0.189	75 - 125	20	80 - 120	20		
Nickel	38	50	103	104	0.101	10	95.1	96.2	1.17	75 - 125	20	80 - 120	20		
Zinc	210	500	106	106	0	100	91	91.9	0.951	75 - 125	20	80 - 120	20		
%SS:	104	250	111	112	0.935	250	98	103	4.42	70 - 130	20	70 - 130	20		
All target compounds in the Met NONE	hod Blank of	this extraction	on batch we	re ND less	than the metho	od RL with the	ne following	exceptions:							

#### BATCH 23981 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002A	9/20/06 8:01 AM	9/28/06	9/29/06 9:01 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 applicable to this method.

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 WET CHEMISTRY TESTS

Test Method:	рН			Matrix: S			WorkOrder: 0609403
Method Na	ime: SW9	045C		Units: ±, pH u	nits @ °C		BatchID: 23847
SampleID		Sample	DF	Dup / Ser. Dil.	DF	RD	Acceptance Criteria
0609403-001A		7.37 @ 23.9 °C	1	7.38 @ 24.0 °C	1	0.01	±0.05
Sample ID 0609403-001A		e Sampled Date Extr 0/06 8:37 AM 9/2	acted Date Ar	CH 23847 SUMMARY           nalyzed         Sample ID           8:30 PM         0609403-001	Date	e Sampled Date //06 8:37 AM	Extracted         Date Analyzed           9/20/06         9/21/06 8:30 PM
Test Method:	pН			Matrix: S			WorkOrder: 0609403
Test Method: Method Na	•	045C		Matrix: S Units: ±, pH u	nits @ °C		<b>WorkOrder: 0609403</b> BatchID: 23990
	•	045C Sample	DF		nits @ °C DF	RD	
Method Na	•		DF 1	Units: ±, pH u		RD 0.01	BatchID: 23990

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}; RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2].



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### QC SUMMARY REPORT FOR SW8015C

WorkOrder 0609403 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SW8015C Extraction SW3550C BatchID: 23830 Spiked Sample ID: 0609374-005A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD TPH(d) ND 20 102 105 2.65 97.9 101 3.00 70 - 130 30 70 - 130 %SS: 92 50 102 105 2.22 103 106 2.12 70 - 130 30 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 23830 SUMMARY

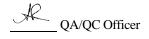
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609403-002	9/20/06 8:01 AM	9/20/06	9/26/06 3:15 PM				

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.



RPD

30

30



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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	Client Project ID: 2942	Date Sampled: 09/19/06
1330 S. Bascom Avenue, Ste. F		Date Received: 09/20/06
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 09/27/06
5413050, 011 75120	Client P.O.:	Date Completed: 09/27/06

#### WorkOrder: 0609404

September 27, 2006

### Dear Joel:

Enclosed are:

- 1). the results of **6** analyzed samples from your **2942 project**,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence

in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

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	Telephor	ne: (925) 798	-1620			F	ax:	(92	25) 79	8-16	522				EI	OF H	Req	ι uire	<b>∂</b> <i>F</i> d?	- Coel	t (]	Nor	mal)		RUS No		24 ′rite			48 HI W)		72 HI	R 5	5 DAY
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	SAMPLE ID	LOCATION			Containers	Containers									PH a	TPH as Diesel	Total Petroleum	21	/ 8010	BTEX ONLY (EPA	EPA 608 / 8080	EPA 608 / 8080 PCB's	EPA 624 / 8240 8260	EFA 022 / 82/0	CAM-17 Metals	Aeta	(7240/7421/239.					metals		
	(Field Point Name)		Date	Time	onts		ter		Air Sludøe	er			03	er	L & T	as D	Petr	Petr	601	ίο χ	608	608	624	C70	1/6	Γ5 N	(724						201	
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1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9	9262			Wo	rkOrd	ler: 06	509404		Clie	ntID: I	PESJ		EDH	: YES	5		
Report to:							Bill to:						Req	uested	TAT:	5	days
Joel Greger Piers Environm 1330 S. Basco San Jose, CA	om Avenue, Ste. F	Email: TEL: ProjectNo: PO:	(408) 559-1248 2942	8 FAX: (408)	559-12	224	,							e Rece e Print			/2006 /2006
									Re	equested	l Tests	(See leg	end bel	ow)			
Sample ID	ClientSampID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0609404-001	MW4		Soil	09/19/2006			A		A								
0609404-002	MW4		Soil	09/19/2006			А										
0609404-003	MW4		Soil	09/19/2006			А										
0609404-004	SS1A-1D		Soil	09/19/2006		А		Α									
0609404-005	SS2A-2D		Soil	09/19/2006		А		Α									
0609404-006	SS3A-3D		Soil	09/20/2006		А		Α									

### Test Legend:

1 218_6m_S	2 8260B_S	3 CAM17MS_S	4 PREDF REPORT	5
6	7	8	9	10
11	12			

The following SampIDs: 0609404-004A, 0609404-005A, 0609404-006A contain testgroup. Please make sure all relevant testcodes are reported. Many thanks.

**Prepared by: Nickole White** 

#### **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.

	CCampbell Analyt "When Ouality Counts"	ical, Inc	<u> </u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565 obell.com E-mail: main@mccar 877-252-9262 Fax: 925-252-92	npbell.com	
Piers Environ	mental	Client Pro	ject ID: 294	12		0/06-09/2	.0/06
1330 S. Basco	om Avenue, Ste. F				Date Received: 09/20	)/06	
San Jose, CA	95128	Client Co	ntact: Joel (	Greger	Date Extracted: 09/20	)/06	
bui Jobe, err	,5120	Client P.C	).:		Date Analyzed 09/21	/06	
		-		gestion and IC-UV	Analysis*		
Extraction method	SW3060A	1	Analytical metho	ods E218.6m	Work 0	Order: 06	09404
Lab ID	Client ID	Matrix	Extraction	He	DF	% SS	
0609404-004A	SS1A-1D	S	TTLC		ND	1	N/A
0609404-005A	SS2A-2D	S	TTLC		1.9	1	N/A
0609404-006A	SS3A-3D	s	TTLC		2.2	1	N/A

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

McCampbell	Analytic Duality Counts"	cal,	Inc.		Web: www.mccampbe	ell.com	Pittsburg, CA 94565-17 E-mail: main@mccampl 52 Fax: 925-252-9269	sell.com	
Piers Environmental		Clier	nt Proje	ect ID: 2	2942	Date S	ampled: 09/19/0	6	
			, i		-	Date R	eceived: 09/20/0	6	
1330 S. Bascom Avenue, Ste. I	7	Clin	at Carr	handi Ta					
Sam Jacob CA 05129	-				e		xtracted: 09/20/0		
San Jose, CA 95128		Clier	nt P.O.:			Date A	nalyzed 09/26/0	6	
	Volatile Or	gani	cs by P	&T and	I GC/MS (Basic Target ]	List)*			
Extraction Method: SW5030B		0	•		od: SW8260B	,	Work Or	der: 060	9404
Lab ID					0609404-001A				
Client ID					MW4				
Matrix					Soil				
Compound	Concentratio	on *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit
Acetone	ND<0.50	)	10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05
Acrylonitrile	ND<0.20		10	0.02	tert-Amyl methyl ether (T	'AME)	ND<0.050	10	0.005
Benzene	ND<0.05		10	0.005	Bromobenzene		ND<0.050	10	0.005
Bromochloromethane Bromoform	ND<0.05 ND<0.05		10 10	0.005	Bromodichloromethane Bromomethane		ND<0.050 ND<0.050	10 10	0.005
2-Butanone (MEK)	ND<0.20		10	0.003	t-Butyl alcohol (TBA)		ND<0.50	10	0.005
n-Butyl benzene	ND<0.05		10	0.005	sec-Butyl benzene		ND<0.050	10	0.005
tert-Butyl benzene	ND<0.05	0	10	0.005	Carbon Disulfide		ND<0.050	10	0.005
Carbon Tetrachloride	ND<0.05	0	10	0.005	Chlorobenzene		ND<0.050	10	0.005
Chloroethane	ND<0.05		10	0.005	2-Chloroethyl Vinyl Ether		ND<0.10	10	0.01
Chloroform	ND<0.05		10	0.005	Chloromethane		ND<0.050	10	0.005
2-Chlorotoluene Dibromochloromethane	ND<0.05 ND<0.05		<u>10</u> 10	0.005	4-Chlorotoluene 1,2-Dibromo-3-chloroprop	2020	ND<0.050 ND<0.050	10 10	0.005
1,2-Dibromoethane (EDB)	ND<0.05		10	0.005	Dibromomethane	Jane	ND<0.050	10	0.005
1,2-Dichlorobenzene	ND<0.05		10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005
1,4-Dichlorobenzene	ND<0.05	0	10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005
1,1-Dichloroethane	ND<0.05	0	10	0.005	1,2-Dichloroethane (1,2-D	CA)	ND<0.050	10	0.005
1,1-Dichloroethene	ND<0.05		10	0.005	cis-1,2-Dichloroethene		0.84	10	0.005
trans-1,2-Dichloroethene	ND<0.05		10	0.005	1,2-Dichloropropane		ND<0.050	10	0.005
1,3-Dichloropropane 1,1-Dichloropropene	ND<0.05 ND<0.05		10 10	0.005	2,2-Dichloropropane cis-1,3-Dichloropropene		ND<0.050 ND<0.050	10 10	0.005
trans-1,3-Dichloropropene	ND<0.05		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005
Ethylbenzene	ND<0.05		10	0.005	Ethyl tert-butyl ether (ETI	BE)	ND<0.050	10	0.005
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005
Hexachloroethane	ND<0.05	0	10	0.005	2-Hexanone		ND<0.050	10	0.005
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005
Methyl-t-butyl ether (MTBE)	ND<0.05 ND<0.05		10	0.005	Methylene chloride Naphthalene		ND<0.050	10	0.005
4-Methyl-2-pentanone (MIBK) Nitrobenzene	ND<0.05 ND<1.0		10 10	0.005	n-Propyl benzene		ND<0.050 ND<0.050	10 10	0.005
Styrene	ND<0.05		10	0.005	1,1,1,2-Tetrachloroethane		ND<0.050	10	0.005
1,1,2,2-Tetrachloroethane	ND<0.05		10	0.005	Tetrachloroethene		ND<0.050	10	0.005
Toluene	ND<0.05	0	10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005
1,2,4-Trichlorobenzene	ND<0.05		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005
1,1,2-Trichloroethane	ND<0.05		10	0.005	Trichloroethene		2.3	10	0.005
Trichlorofluoromethane	ND<0.05		10	0.005	1,2,3-Trichloropropane		ND<0.050	10	0.005
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.05 ND<0.05		10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050 ND<0.050	10 10	0.005
		v			coveries (%)			10	. 0.005
%SS1:	%SS2:		95						
%SS3:	1	93 110							
Comments:									

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.

McCampbell	Analytic	cal,	Inc.		Web: www.mccampb	ell.com	Pittsburg, CA 94565-17 E-mail: main@mccampl 62 Fax: 925-252-9269	sell.com		
Piers Environmental		Clien	nt Proje	ct ID: 2	2942	Date S	ampled: 09/19/0	6		
			j-				Received: 09/20/06			
1330 S. Bascom Avenue, Ste. I	7									
	_	Clier	nt Con	tact: Jo	el Greger	Date E	xtracted: 09/20/0	6		
San Jose, CA 95128		Clien	nt P.O.:			Date A	nalyzed 09/26/0	6		
	Volatile Or	oanic	rs hv P	&T and	l GC/MS (Basic Target	List)*				
Extraction Method: SW5030B	volume or	Same	-		od: SW8260B	1150)	Work Or	der: 060	9404	
Lab ID			7 mary	lical Meth			Work Of	del. 000		
Client ID					0609404-002A MW4					
Matrix Soil										
	<b>a</b>		DE	Reporting				DE	Reporting	
Compound	Concentratio	on *	DF	Limit	Compound		Concentration *	DF	Limit	
Acetone	ND<0.50		10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05	
Acrylonitrile Benzene	ND<0.20 ND<0.05		<u>10</u> 10	0.02	tert-Amyl methyl ether (7 Bromobenzene	(AME)	ND<0.050 ND<0.050	10 10	0.005	
Bromochloromethane	ND<0.05		10	0.005	Bromodichloromethane		ND<0.050	10	0.005	
Bromoform	ND<0.05		10	0.005	Bromomethane		ND<0.050	10	0.005	
2-Butanone (MEK)								10	0.05	
n-Butyl benzene	ND<0.05					ND<0.050	10	0.005		
tert-Butyl benzene	ND<0.05		10	0.005	Carbon Disulfide		ND<0.050	10	0.005	
Carbon Tetrachloride			Chlorobenzene		ND<0.050	10	0.005			
Chloroethane	ND<0.050		10	0.005	2-Chloroethyl Vinyl Ether	r	ND<0.10	10	0.01	
Chloroform 2-Chlorotoluene	ND<0.050         10         0.005         Chloromethane           ND<0.050			ND<0.050 ND<0.050	10 10	0.005				
Dibromochloromethane	ND<0.05			nane	ND<0.050	10	0.005			
1,2-Dibromoethane (EDB)	ND<0.05		10	0.005	Dibromomethane	pune	ND<0.050	10	0.005	
1,2-Dichlorobenzene	ND<0.05		10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005	
1,4-Dichlorobenzene	ND<0.05	0	10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005	
1,1-Dichloroethane	ND<0.05		10	0.005	1,2-Dichloroethane (1,2-D	DCA)	ND<0.050	10	0.005	
1,1-Dichloroethene	ND<0.05		10	0.005	cis-1,2-Dichloroethene		0.55	10	0.005	
trans-1,2-Dichloroethene 1,3-Dichloropropane	ND<0.05 ND<0.05		<u>10</u> 10	0.005	1,2-Dichloropropane 2,2-Dichloropropane		ND<0.050 ND<0.050	10 10	0.005	
1,1-Dichloropropene	ND<0.05		10	0.005	cis-1.3-Dichloropropene		ND<0.050	10	0.005	
trans-1,3-Dichloropropene	ND<0.05		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005	
Ethylbenzene	ND<0.05		10	0.005	Ethyl tert-butyl ether (ET	BE)	ND<0.050	10	0.005	
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005	
Hexachloroethane	ND<0.05		10	0.005	2-Hexanone		ND<0.050	10	0.005	
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005	
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	ND<0.05 ND<0.05		<u>10</u> 10	0.005	Methylene chloride Naphthalene		ND<0.050 ND<0.050	10 10	0.005	
Nitrobenzene	ND<0.03		10	0.003	n-Propyl benzene		ND<0.050	10	0.005	
Styrene	ND<0.05		10	0.005	1,1,1,2-Tetrachloroethane		ND<0.050	10	0.005	
1,1,2,2-Tetrachloroethane	ND<0.05		10	0.005	Tetrachloroethene		ND<0.050	10	0.005	
Toluene	ND<0.05	0	10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005	
1,2,4-Trichlorobenzene	ND<0.05		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005	
1,1,2-Trichloroethane	ND<0.05		10	0.005	Trichloroethene		1.9	10	0.005	
Trichlorofluoromethane	ND<0.05	1	10	0.005	1,2,3-Trichloropropane		ND<0.050 ND<0.050	10	0.005	
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.05		10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050	10 10	0.005	
		¥			coveries (%)			10	. 0.005	
%SS1:		94		3	%SS2:		95			
%SS3:		109								
Comments:										

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.

McCampbell	Analytic Duality Counts"	cal,	Inc.		Web: www.mccampb	ell.com	Pittsburg, CA 94565-17 E-mail: main@mccampl 62 Fax: 925-252-9269	sell.com			
Piers Environmental		Clier	nt Proje	ect ID:	2942	Date S	ampled: 09/19/0	6			
					-	Date R	Received: 09/20/06				
1330 S. Bascom Avenue, Ste. I	-	<b>a</b> 1.		<b>.</b>	1.0						
	-	Clie	nt Cont	tact: Jo	el Greger	Date E	xtracted: 09/20/0	6			
San Jose, CA 95128		Clier	nt P.O.:			Date A	nalyzed 09/26/0	6			
	Volatile Or	·oani	rs hv P	&T and	l GC/MS (Basic Target )	List)*					
Extraction Method: SW5030B	volutile OI	Sam	-		od: SW8260B	1150)	Work Ore	dor: 060	0404		
			Allaly	lical Meth			WOIK OIG	uer. 000	9404		
Lab ID		0609404-003A									
Client ID					MW4 Soil						
Matrix		.		Reporting					Reporting		
Compound	Concentratio	on *	DF	Limit	Compound		Concentration *	DF	Limit		
Acetone	ND<0.20		4.0	0.05	Acrolein (Propenal)		ND<0.20	4.0	0.05		
Acrylonitrile	ND<0.08		4.0	0.02	tert-Amyl methyl ether (T	TAME)	ND<0.020	4.0	0.005		
Benzene Bromochloromethane	ND<0.02 ND<0.02		4.0	0.005	Bromobenzene Bromodichloromethane		ND<0.020 ND<0.020	4.0	0.005		
Bromoform	ND<0.02		4.0	0.005	Bromomethane		ND<0.020	4.0	0.005		
2-Butanone (MEK)	ND<0.08		4.0	0.003	t-Butyl alcohol (TBA)		ND<0.20	4.0	0.005		
n-Butyl benzene					ND<0.020	4.0	0.005				
tert-Butyl benzene	ND<0.02	ND<0.020 4.0 0.005 Carbon Disulfide			Carbon Disulfide		ND<0.020	4.0	0.005		
Carbon Tetrachloride	ND<0.02	0	4.0	0.005	Chlorobenzene		ND<0.020	4.0	0.005		
Chloroethane	ND<0.020		4.0	0.005	2-Chloroethyl Vinyl Ether	•	ND<0.040	4.0	0.01		
Chloroform	ND<0.020		4.0	0.005	Chloromethane		ND<0.020	4.0	0.005		
2-Chlorotoluene Dibromochloromethane	ND<0.020 ND<0.020		4.0	0.005	4-Chlorotoluene 1,2-Dibromo-3-chloroproj	nana	ND<0.020 ND<0.020	4.0	0.005		
1,2-Dibromoethane (EDB)	ND<0.02		4.0	0.005	Dibromomethane	Jane	ND<0.020	4.0	0.005		
1,2-Dichlorobenzene	ND<0.02		4.0	0.005	1,3-Dichlorobenzene		ND<0.020	4.0	0.005		
1,4-Dichlorobenzene	ND<0.02	0	4.0	0.005	Dichlorodifluoromethane		ND<0.020	4.0	0.005		
1,1-Dichloroethane	ND<0.02		4.0	0.005	1,2-Dichloroethane (1,2-D	DCA)	ND<0.020	4.0	0.005		
1,1-Dichloroethene	ND<0.02		4.0	0.005	cis-1,2-Dichloroethene		0.11	4.0	0.005		
trans-1,2-Dichloroethene	ND<0.02		4.0	0.005	1,2-Dichloropropane		ND<0.020	4.0	0.005		
1,3-Dichloropropane 1,1-Dichloropropene	ND<0.02 ND<0.02		4.0	0.005	2,2-Dichloropropane cis-1,3-Dichloropropene		ND<0.020 ND<0.020	4.0	0.005		
trans-1,3-Dichloropropene	ND<0.02		4.0	0.005	Diisopropyl ether (DIPE)		ND<0.020	4.0	0.005		
Ethylbenzene	ND<0.02		4.0	0.005	Ethyl tert-butyl ether (ET	BE)	ND<0.020	4.0	0.005		
Freon 113	ND<0.40	)	4.0	0.1	Hexachlorobutadiene		ND<0.020	4.0	0.005		
Hexachloroethane	ND<0.02		4.0	0.005	2-Hexanone		ND<0.020	4.0	0.005		
Isopropylbenzene	ND<0.02		4.0	0.005	4-Isopropyl toluene		ND<0.020	4.0	0.005		
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	ND<0.02		4.0	0.005	Methylene chloride Naphthalene		ND<0.020	4.0	0.005		
A-Methyl-2-pentanone (MIBK) Nitrobenzene	ND<0.02 ND<0.40		4.0	0.005	n-Propyl benzene		ND<0.020 ND<0.020	4.0	0.005		
Styrene	ND<0.02		4.0	0.005	1,1,1,2-Tetrachloroethane		ND<0.020	4.0	0.005		
1,1,2,2-Tetrachloroethane	ND<0.02		4.0	0.005	Tetrachloroethene		ND<0.020	4.0	0.005		
Toluene	ND<0.02	0	4.0	0.005	1,2,3-Trichlorobenzene		ND<0.020	4.0	0.005		
1,2,4-Trichlorobenzene							4.0	0.005			
1,1,2-Trichloroethane	ND<0.02		4.0	0.005	Trichloroethene		0.53	4.0	0.005		
Trichlorofluoromethane	ND<0.02		4.0	0.005	1,2,3-Trichloropropane		ND<0.020	4.0	0.005		
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.02 ND<0.02		4.0	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.020 ND<0.020	4.0	0.005		
		v			coveries (%)				. 0.005		
%SS1:		92		3	%SS2:		92				
%SS3:		107					, , , , , , , , , , , , , , , , , , , ,				
Comments:											

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.

McCampbell Ar		<u>cal, In</u>	<u>c.</u>	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		Client Pr	oject ID:	2942	•	Date Sampled:	09/19/06-0	)9/20/06		
						Date Received:	09/20/06			
1330 S. Bascom Avenue, Ste. F		Client C	ontact: Jo	el Greg	er	Date Extracted:	09/20/06			
San Jose, CA 95128		Client P.	O.:			Date Analyzed	09/22/06-0	)9/25/06		
		C	AM / CCR	17 Me	tals*					
Lab ID	06094	04-004A	0609404	-005A	0609404-006A		Reporting Li	mit for DF =1		
Client ID	SSI	IA-1D	SS2A-	2D	SS3A-3D		ND means	not detected eporting limit		
Matrix		S	S		S		S	W		
Extraction Type	T	ГLC	TTL	С	TTLC		mg/Kg	mg/L		
Analytical Method: 6020A			AS Metals, action Method				Work Order:	0609404		
Dilution Factor		1	1		1		1	1		
Antimony		3.4	3.4		2.7		0.5	NA		
Arsenic		17	6.0		5.8		0.5	NA		
Barium		170	260		190		5.0	NA		
Beryllium	(	).51	ND		0.59		0.5	NA		
Cadmium		1.3	8.9		26		0.25	NA		
Chromium		84	100		910		0.5	NA		
Cobalt		18	10		20		0.5	NA		
Copper		210	160		430		0.5	NA		
Lead		210	360		84		0.5	NA		
Mercury	(	).54	0.80	)	0.23		0.05	NA		
Molybdenum		1.9	1.1		1.7		0.5	NA		
Nickel		100	150		5400		0.5	NA		
Selenium		ND	ND		0.71		0.5	NA		
Silver		ND	2.0		2.9		0.5	NA		
Thallium		ND	ND		ND		0.5	NA		
Vanadium		100	44		39		0.5	NA		
Zinc		210	430		750		5.0	NA		
%SS:		104	102		105					
Comments										
<ul> <li>*water samples are reported in µg/L, proc mg/L, soil/sludge/solid samples in mg/kg,</li> <li># means surrogate diluted out of range; N instrument.</li> </ul>	wipe sam	ples in μg/v	wipe, filter s	amples i	n μg/filter.		-			

i) aqueous sample containing greater than  $\sim 1$  vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

	Campbell Analyti "When Ouality Counts"	cal, Inc.	Web: www.mccam	Pass Road, Pittsburg, CA 94565-1701 pbell.com E-mail: main@mccampbell.co 877-252-9262 Fax: 925-252-9269	m		
Piers Environme	ntal	Client Project ID:	2942	Date Sampled: 09/19/06-09	/20/06		
1330 S. Bascom	Avenue, Ste. F			Date Received: 09/20/06			
San Jaco CA 051	129	Client Contact: Jo	bel Greger	Date Extracted: 09/21/06			
San Jose, CA 951	128	Client P.O.:		Date Analyzed 09/21/06			
	M/2000	Chemical Oxygen	n Demand (COD)*				
Analytical Method: SI	Client ID	Matri	x	Work Order: 0	D609404		
0609404-004A	SS1A-1D	S		6900	1		
0609404-005A	SS2A-2D	S		18,000	1		
0609404-006A	SS3A-3D	S		14,000	1		

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

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

	Campbell Analyti	cal, Inc.	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 Environn	nental	Client Project ID: 2	2942		Date Sampled: 09/19/06-09/20/06						
1330 S. Bascon	m Avenue, Ste. F				Date Received: 09/20/06						
San Jose, CA 9	5128	Client Contact: Jo	el Greger		Date Extracted: 09/20/06						
	5120	Client P.O.:			Date Analyzed 09/21/06						
		pł	<b>ł</b> *								
Analytical Method:	SW9045C Client ID		Matrix		Work Order: 0609404						
0609404-004A 0609404-005A	SS1A-1D SS2A-2D		S S		7.98 @ 24.5 °С 7.58 @ 24.5 °С						
0609404-005A	SS3A-3D		S		10.88 @ 24.5 °C						
5007404-000A					10.00 @ 27.3 C						
Method Ac	curacy and Reporting Units		W S		NA ±0.1, pH units @ °C						
					· •						

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager



"When Ouality Counts"

## QC SUMMARY REPORT FOR E218.6m

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0609404

EPA Method E218.6m Extraction SW3060A						BatchID: 23797 Spiked Sample ID: 0609365-0					)01a	
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
Hexachrome	ND	40	102	104	2.53	93.1	96.5	3.59	80 - 120	20	90 - 110	10
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

### BATCH 23797 SUMMARY

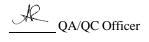
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004	9/19/06 12:37 PM	9/20/06	9/21/06 6:40 PM	0609404-005	9/19/06 1:08 PM	9/20/06	9/21/06 7:02 PM
0609404-006	9/20/06 8:01 AM	9/20/06	9/21/06 7:23 PM				

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 applicable to this method.





"When Ouality Counts"

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609404

EPA Method SW8260B	E	xtraction	SW503	0B		Batchl	D: 23787	S	piked San	nple ID	: 0609343-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	ce Criteria (º	%)		
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME	ND	0.050	101	103	2.46	105	109	3.56	70 - 130	30	70 - 130	30
Benzene	ND	0.050	96.9	98.8	1.80	98.7	107	7.87	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	91.3	86.1	5.89	98.5	124	22.5	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	101	101	0	93.7	99.7	6.20	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.1	95.1	0	93.1	93.4	0.306	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	115	121	4.94	119	124	4.27	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	116	117	0.517	108	111	3.45	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	117	121	2.99	116	120	3.84	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	111	114	3.28	111	116	3.63	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	0.011	0.050	90.2	93	2.50	115	120	3.87	70 - 130	30	70 - 130	30
Toluene	ND	0.050	88.6	88.4	0.227	90.4	87.9	2.84	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	97.2	98.7	1.59	91.3	97	6.02	70 - 130	30	70 - 130	30
%SS1:	112	0.050	105	106	0.689	105	103	1.47	70 - 130	30	70 - 130	30
%SS2:	98	0.050	106	105	0.639	106	96	9.90	70 - 130	30	70 - 130	30
%SS3:	92	0.050	106	107	0.800	109	106	2.59	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 23787 SUMMARY

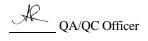
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-001	9/19/06 8:27 AM	9/20/06	9/26/06 7:56 AM	0609404-002	9/19/06 8:40 AM	9/20/06	9/26/06 8:41 AM
0609404-003	9/19/06 8:51 AM	9/20/06	9/26/06 9:26 AM				

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.





"When Quality Counts"

### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil		QC Matrix: Soil							Wor	rkOrder 0609404			
EPA Method 6020A			Extract	tion SW3	050B		BatchID: 23846         Spiked Sample U           Spiked         LCS         LCS-LCSD         Acceptarue U           mg/Kg         % Rec.         % Rec.         % RPD         MS / MSD         RPD         LC           10         99.2         101         1.51         75 - 125         20         8           10         94.2         94.9         0.761         75 - 125         20         8           100         96.4         97.8         1.48         75 - 125         20         8           100         96.7         102         3.36         75 - 125         20         8           10         98.7         102         3.36         75 - 125         20         8           10         95.5         95.8         0.303         75 - 125         20         8           10         90.9         92.6         1.86         75 - 125         20         8           10         90.9         92.6         1.86         75 - 125         20         8           10         90.9         92.6         1.86         75 - 125         20         8				ID 0609397-0	)52A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
, indifie	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD
Antimony	ND	50	100	99.4	0.736	10	99.2	101	1.51	75 - 125	20	80 - 120	20
Arsenic	5	50	92.7	93	0.331	10	94.2	94.9	0.761	75 - 125	20	80 - 120	20
Barium	290	500	95.7	96	0.207	100	96.4	97.8	1.48	75 - 125	20	80 - 120	20
Beryllium	0.72	50	89.5	89.6	0.110	10	98.7	102	3.36	75 - 125	20	80 - 120	20
Cadmium	ND	50	95	94.6	0.464	10	95.5	95.8	0.303	75 - 125	20	80 - 120	20
Chromium	41	50	82.5	86.6	2.47	10	90.9	92.6	1.86	75 - 125	20	80 - 120	20
Cobalt	13	50	84.5	84.1	0.328	10	95.4	99.3	3.95	75 - 125	20	80 - 120	20
Copper	24	50	89.1	91.3	1.59	10	95.2	95.3	0.105	75 - 125	20	80 - 120	20
Lead	10	50	94	93.7	0.193	10	96.4	98	1.74	75 - 125	20	80 - 120	20
Mercury	ND	2.5	102	100	1.14	0.50	103	104	1.33	75 - 125	20	80 - 120	20
Molybdenum	0.50	50	93.3	92.6	0.766	10	95	95.6	0.608	75 - 125	20	80 - 120	20
Nickel	42	50	90.7	94.3	2.01	10	93.8	94.8	1.10	75 - 125	20	80 - 120	20
Selenium	ND	50	95.6	94.3	1.28	10	93	94.4	1.49	75 - 125	20	80 - 120	20
Silver	ND	50	91.3	90.7	0.636	10	94.5	95.2	0.791	75 - 125	20	80 - 120	20
Thallium	ND	50	92.4	93.4	1.08	10	89.4	92.1	2.98	75 - 125	20	80 - 120	20
Vanadium	72	50	81.1	88.1	3.05	10	91.2	92.6	1.51	75 - 125	20	80 - 120	20
Zinc	56	500	94.3	94	0.304	100	97.7	98.6	0.917	75 - 125	20	80 - 120	20
%SS:	108	250	105	107	2.41	250	101	102	1.58	70 - 130	20	70 - 130	20

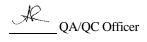
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 Nº 1644



"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 6020A

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

	BATCH 23846 SUMMARY										
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed				
0609404-004A	9/19/06 12:37 PM	9/20/06	9/22/06 3:02 AM	0609404-004A	9/19/06 12:37 PM	9/20/06	9/22/06 10:04 PM				
0609404-005A	9/19/06 1:08 PM	9/20/06	9/22/06 3:09 AM	0609404-005A	9/19/06 1:08 PM	9/20/06	9/25/06 8:14 PM				
0609404-006A	9/20/06 8:01 AM	9/20/06	9/22/06 3:16 AM	0609404-006A	9/20/06 8:01 AM	9/20/06	9/25/06 8:21 PM				
0609404-006A	9/20/06 8:01 AM	9/20/06	9/25/06 8:28 PM								

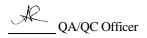
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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





"When Ouality Counts"

## QC SUMMARY REPORT FOR SM5220D

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609404

EPA Method SM5220D		BatchI	D: 23796	ę	Spiked Sample ID: 0609365-001A							
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria ('	%)
, maij to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
COD	3200	10000	109	104	3.45	106	99.6	6.41	90 - 110	20	90 - 110	20
All target compounds in the Met	hod Blank o	f this extra	ction bate	ch were N	D less tha	n the met	hod RL w	vith the follo	wing except	tions:		

### BATCH 23796 SUMMARY

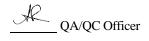
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004	9/19/06 12:37 PM	9/21/06	9/21/06 5:01 PM	0609404-005	9/19/06 1:08 PM	9/21/06	9/21/06 5:07 PM
0609404-006	9/20/06 8:01 AM	9/21/06	9/21/06 5:13 PM				

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.





"When Ouality Counts"

## QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:	рН					Mat	trix: S		WorkOrder: 0609404				
Method Name	e: SW90	045C				U	nits ±, pH u	BatchID: 23847					
SampleID		Sampl	le	[	DF	Dup	<sup>/</sup> Ser. Dil.	DF		RD		Acce	ptance Criteria
0609404-004A		7.98 @ 24	4.5 °C		1	7.99	@ 24.5 °C	1		0.01	1		±0.05
0609404-005A		7.58 @ 24	4.5 °C		1	7.57	@ 24.6 °C	1		0.01	1		±0.05
0609404-006A		10.88 @ 2	4.5 °C		1	10.89	@ 24.5 °C	1		0.01	1		±0.05
Sample ID	Date	Sampled [	Date Extra	acted	<u>BAT</u> Date An		<u>7 SUMMARY</u> Sample ID		Date Sam	nled	Date F	Extracted	Date Analyzed
0609404-004A		6 12:37 PM	9/20/		9/21/06 8	,	0609404-00		19/06 12:			9/20/06	9/21/06 8:40 PM
0609404-004A 0609404-005A		06 1:08 PM	9/20/		9/21/06 8 9/21/06 8		0609404-00		9/19/06 12.		-	9/20/06	9/21/06 8:40 PM
0609404-006A	9/20/	06 8:01 AM	9/20/	/06	9/21/06 9	0:00 PM	0609404-00	)6A 9	0/20/06 8:0	01 AM	9	9/20/06	9/21/06 9:00 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}; RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2].

A QA/QC Officer



"When Ouality 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	Client Project ID: 2942	Date Sampled: 09/19/06
1330 S. Bascom Avenue, Ste. F		Date Received: 09/20/06
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 09/27/06
5413050, 011 75120	Client P.O.:	Date Completed: 10/05/06

#### WorkOrder: 0609404

October 05, 2006

### Dear Joel:

Enclosed are:

- 1). the results of **6** analyzed samples from your **2942 project**,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence

in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

$(\chi/\chi)$										14	UP-2	and Service	7 ~ K							Ĺ		PI	$\mathcal{O}^{(i)}$	1	l	UM			
Telepho	McCAMPBELL ANALYTICAL INC. 110 2 <sup>nd</sup> AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622									T	UF DF I	RN A		OU	CHA ND	TI	ME			D JSH	2	4 HF	R 🔓	48 H	R	<b>1</b> 72 HR	<b>D</b> 5 I		
Report To: Joe	21 Grenz	V	F	ill T	0:	PT-E.	725							uqu	in c		nalỳ					2	14	3	and the party of the local division of the	Othe	the second s	Com	ment
Company: PIER	25 Envive	m men	hal		·· /	1 60																23	S.	12		15			
1330 5.1	apany: PIERS Environ mental 1330 S. Base cm Ave Suite F Sun Jose CA 45128 E-Mail: Press opresses. com : (1570 5935382 Fax: () 570 7871457										(5520 E&F/B&F)									100 1	5	2 2	Per a			7			
San Jo	se CA a	9512	8	E-M:	ail: Py	ers	DPI	ersi	25.1	Com	7	TBE		&F/I	4						310	20	File	3 N	27	513		E.	5
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		SAMI	PLING		lers	N	1ATI	чх		IETH ESER		Gas (60)	8015)	Oilte	Hydro	0	() ()	) PCB'	826		by EP.	244		14211239.216040) 8 0 1 4 4	200	t cat		ona	ed p
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soll	Sludge	Ice	HCI HNO.	Other 7	BTEX & TPH as (	TPH as Diesel (	Total Petroleum	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BIEX UNLY (EPA 602 / 8020) EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 82	CAM-17 Metals	EUPT 5 Metals	Lead (1240/142	A CA A	Hexavalon	:	2	CN Sail/3
mw4	05/3.5	9-19.06	8:21Am	1	Ina		K.		X									-	Y										
MWY	d. M.5	1	8:40Am	Ĩ )	T		10		x						-				X						-				
mwy	122.5		8:51 Am	l il	1		V		6															<u> </u>					
JSIA .	10.5		1237Pm		1		х Х		Ŷ										×	2			K	×				6	
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552B 1	0.5		: Mpm				x		K											4	7	V	R	8		R		5 CA	ma
\$2C 0	0.5		1-22 Pm				1		X													1	9	Ģ	2	Q		12	mp. 7 a
552B 1	0.5		1:31Am		1				1				-					-						6	0	N		<u>₩</u>	
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SS3B		raw	8:01 AM		d	-	Y		X									-		/			2		X			Gen	In Act
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5530	10:5	V	9:22 Am	1	1J				R										1.11	$\mathcal{F}$					X	: 0	2	14	øJ
Relinquished By:		Date: 9/20/06	Time:	Rec	eived B	2	_	$\sqrt{1}$								Marrie .			/						V0/	AS 08	kG I	METALS	01
Relaguished By:		Date: 9/2006	Time:	Rec	eived B	y. K		X	/		~			DC		DITI		_		A	APPI	ROP	VAT 'RIA'	TE					
Palinamiakata			16			1-0	<u> </u>	j j	5	1	$\rightarrow$						BSEN		D	. (			NER		<u></u>	i n			
Relinquished By:	$ \rightarrow $	Date:	Time:	Reci	eived B	y l	and the second se		$\checkmark$	1	and the second se		JEC	нгс	жп	NAT)	ED IN	LA	NB		_ PE	RSE	RVE	,D IN	۲ LA	۲B			
117	1 9	Inal	6210	P		$\sim$																							

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9	9262			Wo	rkOrd	ler: 06	509404		Clie	ntID: I	PESJ		EDH	: YES	5		
Report to:							Bill to:						Req	uested	TAT:	5	days
Joel Greger Piers Environm 1330 S. Basco San Jose, CA	om Avenue, Ste. F	Email: TEL: ProjectNo: PO:	(408) 559-1248 2942	8 FAX: (408)	559-12	224	,							e Rece e Print			/2006 /2006
									Re	equested	l Tests	(See leg	end bel	ow)			
Sample ID	ClientSampID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0609404-001	MW4		Soil	09/19/2006			A		A								
0609404-002	MW4		Soil	09/19/2006			А										
0609404-003	MW4		Soil	09/19/2006			А										
0609404-004	SS1A-1D		Soil	09/19/2006		А		Α									
0609404-005	SS2A-2D		Soil	09/19/2006		А		Α									
0609404-006	SS3A-3D		Soil	09/20/2006		А		Α									

### Test Legend:

1 218_6m_S	2 8260B_S	3 CAM17MS_S	4 PREDF REPORT	5
6	7	8	9	10
11	12			

The following SampIDs: 0609404-004A, 0609404-005A, 0609404-006A contain testgroup. Please make sure all relevant testcodes are reported. Many thanks.

**Prepared by: Nickole White** 

#### **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.

	CCampbell Analyt	ical, Inc	<u> </u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565 obell.com E-mail: main@mccar 877-252-9262 Fax: 925-252-92	npbell.com	
Piers Environ	mental	Client Pro	ject ID: 294	12		0/06-09/2	.0/06
1330 S. Basco	om Avenue, Ste. F				Date Received: 09/20	)/06	
San Jose, CA	95128	Client Co	ntact: Joel (	Greger	Date Extracted: 09/20	)/06	
bui Jobe, err	,5120	Client P.C	).:		Date Analyzed 09/21	/06	
		-		gestion and IC-UV	Analysis*		
Extraction method	SW3060A	1	Analytical metho	ods E218.6m	Order: 06	09404	
Lab ID	Client ID	Matrix	Extraction	He	DF	% SS	
0609404-004A	SS1A-1D	S	TTLC		ND	1	N/A
0609404-005A	SS2A-2D	S	TTLC		1.9	1	N/A
0609404-006A	SS3A-3D	s	TTLC		2.2	1	N/A

Reporting Limit for DF =1;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

	cCampbell Analyti "When Ouality Counts"	cal, Inc	2.	Web: www.mccam	Pass Road, Pittsburg, CA 94565- pbell.com E-mail: main@mccarr 877-252-9262 Fax: 925-252-92	pbell.com				
Piers Environ	mental	Client Pro	ject ID: 29	942	Date Sampled: 09/19	/06-09/2	0/06			
1330 S. Basco	om Avenue, Ste. F				Date Received: 09/20	/06				
San Jose, CA	95128	Client Co	ntact: Joel	l Greger	Date Extracted: 09/28/06					
builbose, err		Client P.C	).:		Date Analyzed 09/28	/06				
	TTLC Hexa	chrome by	Alkaline E	Digestion and IC-UV	•					
Extraction method	SW3060A	1	Analytical met	hods E218.6m	rder: 060	09404				
Lab ID	Client ID	Matrix	Extractio	on H	Hexachrome					
0609404-005B	SS2A	S	TTLC		1.2	1	N/A			
0609404-005C	SS2B	S	TTLC		ND	1	N/A			
0609404-005D	SS2C	S	TTLC		ND	1	N/A			
0609404-005E	SS2D	S	TTLC		9.4	1	N/A			
0609404-006B	SS3A	S	TTLC		ND	1	N/A			
0609404-006C	SS3B	S	TTLC		8.6	1	N/A			
0609404-006D	SS3C	S	TTLC		1.0	1	N/A			
0609404-006E	SS3D	S	TTLC		6.5	1	N/A			
						ļ				
						<u> </u>				

Reporting Limit for $DF = 1$ ;	W	TTLC	NA	μg/L
ND means not detected at or above the reporting limit	S	TTLC	0.8	mg/Kg

Angela Rydelius, Lab Manager

\* All samples are reported in mg/kg unless otherwise requested. All samples and QC were cleaned up prior to analysis.

j) reporting limit raised due to matrix interference.

McCampbell	Analytic Duality Counts"	cal,	Inc.		Web: www.mccampbe	ell.com	Pittsburg, CA 94565-17 E-mail: main@mccampl 52 Fax: 925-252-9269	sell.com				
Piers Environmental		Clier	nt Proje	ect ID: 2	2942	Date S	ampled: 09/19/0	6				
			, i		-	Date R	eceived: 09/20/0	6				
1330 S. Bascom Avenue, Ste. I	7	Clin	at Carr	handi Ta								
Sam Jacob CA 05129	-				e		xtracted: 09/20/0					
San Jose, CA 95128		Clier	nt P.O.:			Date A	Date Analyzed 09/26/06					
	Volatile Or	gani	cs by P	&T and	I GC/MS (Basic Target ]	List)*						
Extraction Method: SW5030B		0	•		od: SW8260B	,	Work Or	der: 060	9404			
Lab ID					0609404-001A							
Client ID					MW4							
Matrix					Soil							
Compound	Concentratio	on *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit			
Acetone	ND<0.50	)	10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05			
Acrylonitrile	ND<0.20		10	0.02	tert-Amyl methyl ether (T	'AME)	ND<0.050	10	0.005			
Benzene	ND<0.05		10	0.005	Bromobenzene		ND<0.050	10	0.005			
Bromochloromethane Bromoform	ND<0.05 ND<0.05		10 10	0.005	Bromodichloromethane Bromomethane		ND<0.050 ND<0.050	10 10	0.005			
2-Butanone (MEK)	ND<0.20		10	0.003	t-Butyl alcohol (TBA)		ND<0.50	10	0.005			
n-Butyl benzene	ND<0.05		10	0.005	sec-Butyl benzene		ND<0.050	10	0.005			
tert-Butyl benzene	ND<0.05	0	10	0.005	Carbon Disulfide		ND<0.050	10	0.005			
Carbon Tetrachloride	ND<0.05	0	10	0.005	Chlorobenzene		ND<0.050	10	0.005			
Chloroethane	ND<0.05		10	0.005	2-Chloroethyl Vinyl Ether		ND<0.10	10	0.01			
Chloroform	ND<0.05		10	0.005	Chloromethane		ND<0.050	10	0.005			
2-Chlorotoluene Dibromochloromethane	ND<0.05 ND<0.05		<u>10</u> 10	0.005	4-Chlorotoluene 1,2-Dibromo-3-chloroprop	2020	ND<0.050 ND<0.050	10 10	0.005			
1,2-Dibromoethane (EDB)	ND<0.05		10	0.005	Dibromomethane	Jane	ND<0.050	10	0.005			
1,2-Dichlorobenzene	ND<0.05		10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005			
1,4-Dichlorobenzene	ND<0.05	0	10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005			
1,1-Dichloroethane	ND<0.05	0	10	0.005	1,2-Dichloroethane (1,2-D	CA)	ND<0.050	10	0.005			
1,1-Dichloroethene	ND<0.05		10	0.005	cis-1,2-Dichloroethene		0.84	10	0.005			
trans-1,2-Dichloroethene	ND<0.05		10	0.005	1,2-Dichloropropane		ND<0.050	10	0.005			
1,3-Dichloropropane 1,1-Dichloropropene	ND<0.05 ND<0.05		10 10	0.005	2,2-Dichloropropane cis-1,3-Dichloropropene		ND<0.050 ND<0.050	10 10	0.005			
trans-1,3-Dichloropropene	ND<0.05		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005			
Ethylbenzene	ND<0.05		10	0.005	Ethyl tert-butyl ether (ETI	BE)	ND<0.050	10	0.005			
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005			
Hexachloroethane	ND<0.05	0	10	0.005	2-Hexanone		ND<0.050	10	0.005			
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005			
Methyl-t-butyl ether (MTBE)	ND<0.05 ND<0.05		10	0.005	Methylene chloride Naphthalene		ND<0.050	10	0.005			
4-Methyl-2-pentanone (MIBK) Nitrobenzene	ND<0.05 ND<1.0		10 10	0.005	n-Propyl benzene		ND<0.050 ND<0.050	10 10	0.005			
Styrene	ND<0.05		10	0.005	1,1,1,2-Tetrachloroethane		ND<0.050	10	0.005			
1,1,2,2-Tetrachloroethane	ND<0.05		10	0.005	Tetrachloroethene		ND<0.050	10	0.005			
Toluene	ND<0.05	0	10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005			
1,2,4-Trichlorobenzene	ND<0.05		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005			
1,1,2-Trichloroethane	ND<0.05		10	0.005	Trichloroethene		2.3	10	0.005			
Trichlorofluoromethane	ND<0.05		10	0.005	1,2,3-Trichloropropane		ND<0.050	10	0.005			
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.05 ND<0.05		10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050 ND<0.050	10 10	0.005			
		v			coveries (%)			10	. 0.005			
%SS1:		93		3	%SS2:		95					
%SS3:	1	110										
Comments:												

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.

When Ouality 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			nt Proje	ct ID: 2	2942	mpled: 09/19/06				
						Date Received: 09/20/06				
1330 S. Bascom Avenue, Ste. F										
			Client Contact: Joel Greger				Date Extracted: 09/20/06			
San Jose, CA 95128			Client P.O.:				Date Analyzed 09/26/06			
Volatile Organics by P&T and GC/MS (Basic Target List)*										
Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0609404										
Lab ID			0609404-002A							
Client ID				0609404-002A MW4						
Matrix		Soil								
	Concentration *		DE	Reporting				DE	Reporting	
Compound	Concentratio	on *	DF	Limit	Compound		Concentration *	DF	Limit	
Acetone	ND<0.50		10	0.05	Acrolein (Propenal)		ND<0.50	10	0.05	
Acrylonitrile Benzene	ND<0.20 ND<0.050		$\frac{10}{10}$	0.02	tert-Amyl methyl ether (TAME) Bromobenzene		ND<0.050 ND<0.050	10 10	0.005	
Bromochloromethane	ND<0.050		10	0.005	Bromodichloromethane			10	0.005	
Bromoform	ND<0.050		10	0.005	Bromomethane			10	0.005	
2-Butanone (MEK)	ND<0.20		10	0.02	t-Butyl alcohol (TBA)		ND<0.50	10	0.05	
n-Butyl benzene	ND<0.050		10	0.005	sec-Butyl benzene		ND<0.050	10	0.005	
tert-Butyl benzene	ND<0.050		10	0.005	Carbon Disulfide		ND<0.050	10	0.005	
Carbon Tetrachloride	ND<0.050		10	0.005	Chlorobenzene		ND<0.050	10	0.005	
Chloroethane	ND<0.050		10	0.005	2-Chloroethyl Vinyl Ether		ND<0.10	10	0.01	
Chloroform 2-Chlorotoluene	ND<0.050 ND<0.050		10 10	0.005	Chloromethane 4-Chlorotoluene		ND<0.050 ND<0.050	10 10	0.005	
Dibromochloromethane	ND<0.050		10	0.005	1,2-Dibromo-3-chloropropane		ND<0.050	10	0.005	
1,2-Dibromoethane (EDB)	ND<0.050		10	0.005	Dibromomethane		ND<0.050	10	0.005	
1,2-Dichlorobenzene	ND<0.050		10	0.005	1,3-Dichlorobenzene		ND<0.050	10	0.005	
1,4-Dichlorobenzene	ND<0.050		10	0.005	Dichlorodifluoromethane		ND<0.050	10	0.005	
1,1-Dichloroethane	ND<0.050		10	0.005	1,2-Dichloroethane (1,2-DCA)		ND<0.050	10	0.005	
1,1-Dichloroethene	ND<0.050		10	0.005	cis-1,2-Dichloroethene		0.55	10	0.005	
trans-1,2-Dichloroethene 1,3-Dichloropropane	ND<0.050 ND<0.050		$\frac{10}{10}$	0.005	1,2-Dichloropropane 2,2-Dichloropropane		ND<0.050 ND<0.050	10 10	0.005	
1,1-Dichloropropene	ND<0.050		10	0.005	cis-1.3-Dichloropropene		ND<0.050	10	0.005	
trans-1,3-Dichloropropene	ND<0.050		10	0.005	Diisopropyl ether (DIPE)		ND<0.050	10	0.005	
Ethylbenzene	ND<0.050		10	0.005	Ethyl tert-butyl ether (ETBE)		ND<0.050	10	0.005	
Freon 113	ND<1.0		10	0.1	Hexachlorobutadiene		ND<0.050	10	0.005	
Hexachloroethane	ND<0.050		10	0.005	2-Hexanone		ND<0.050	10	0.005	
Isopropylbenzene	ND<0.05		10	0.005	4-Isopropyl toluene		ND<0.050	10	0.005	
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	ND<0.05 ND<0.05		<u>10</u> 10	0.005	Methylene chloride Naphthalene		ND<0.050 ND<0.050	10 10	0.005	
Nitrobenzene	ND<0.03		10	0.003	n-Propyl benzene		ND<0.050	10	0.005	
Styrene	ND<1.0		10	0.005	1,1,1,2-Tetrachloroethane		ND<0.050	10	0.005	
1,1,2,2-Tetrachloroethane	ND<0.050		10	0.005	Tetrachloroethene		ND<0.050	10	0.005	
Toluene	ND<0.050		10	0.005	1,2,3-Trichlorobenzene		ND<0.050	10	0.005	
1,2,4-Trichlorobenzene	ND<0.050		10	0.005	1,1,1-Trichloroethane		ND<0.050	10	0.005	
1,1,2-Trichloroethane	ND<0.050		10	0.005	Trichloroethene		1.9	10	0.005	
Trichlorofluoromethane	ND<0.050		10	0.005	1,2,3-Trichloropropane		ND<0.050 ND<0.050	10	0.005	
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.050 ND<0.050		10 10	0.005	1,3,5-Trimethylbenzene Xvlenes		ND<0.050	10 10	0.005	
Surrogate Recoveries (%)										
%SS1:	94				%SS2: 95					
%SS3: 109										
Comments:										

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.

McCampbell	Analytic Duality Counts"	cal,	Inc.		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		Clier	nt Proje	ect ID:	2942	Date S	ampled: 09/19/0	6			
					-	eceived: 09/20/06					
1330 S. Bascom Avenue, Ste. I	-	<b>a</b> 1.		<b>.</b>	1.0						
	-	Clie	nt Cont	tact: Jo	el Greger	Date E	xtracted: 09/20/0	6			
San Jose, CA 95128		Clier	nt P.O.:			Date A	nalyzed 09/26/0	6			
	Volatile Or	oani	rs hv P	&T and	l GC/MS (Basic Target )	List)*					
Extraction Method: SW5030B	volutile OI	Sam	-		od: SW8260B	1150)	Work Ore	dor: 060	0404		
			Allaly	lical Meth			WOIK OIG	uer. 000	9404		
Lab ID					0609404-003A						
Client ID					MW4 Soil						
Matrix		.		Reporting					Reporting		
Compound	Concentratio	on *	DF	Limit	Compound		Concentration *	DF	Limit		
Acetone	ND<0.20		4.0	0.05	Acrolein (Propenal)		ND<0.20	4.0	0.05		
Acrylonitrile	ND<0.08		4.0	0.02	tert-Amyl methyl ether (T	TAME)	ND<0.020	4.0	0.005		
Benzene Bromochloromethane	ND<0.02 ND<0.02		4.0	0.005	Bromobenzene Bromodichloromethane		ND<0.020 ND<0.020	4.0	0.005		
Bromoform	ND<0.02		4.0	0.005	Bromomethane		ND<0.020	4.0	0.005		
2-Butanone (MEK)	ND<0.08		4.0	0.003	t-Butyl alcohol (TBA)		ND<0.20	4.0	0.005		
n-Butyl benzene	ND<0.02		4.0	0.005	sec-Butyl benzene		ND<0.020	4.0	0.005		
tert-Butyl benzene	ND<0.02	0	4.0	0.005	Carbon Disulfide		ND<0.020	4.0	0.005		
Carbon Tetrachloride	ND<0.02	0	4.0	0.005	Chlorobenzene		ND<0.020	4.0	0.005		
Chloroethane	ND<0.02		4.0	0.005	2-Chloroethyl Vinyl Ether	ND<0.040	4.0	0.01			
Chloroform	ND<0.02		4.0	0.005	Chloromethane	ND<0.020	4.0	0.005			
2-Chlorotoluene Dibromochloromethane	ND<0.02 ND<0.02		4.0	0.005	4-Chlorotoluene 1,2-Dibromo-3-chloroproj	ND<0.020 ND<0.020	4.0	0.005			
1,2-Dibromoethane (EDB)	ND<0.02		4.0	0.005	Dibromomethane	ND<0.020	4.0	0.005			
1,2-Dichlorobenzene	ND<0.02		4.0	0.005	1,3-Dichlorobenzene		ND<0.020	4.0	0.005		
1,4-Dichlorobenzene	ND<0.02	0	4.0	0.005	Dichlorodifluoromethane		ND<0.020	4.0	0.005		
1,1-Dichloroethane	ND<0.02		4.0	0.005	1,2-Dichloroethane (1,2-D	DCA)	ND<0.020	4.0	0.005		
1,1-Dichloroethene	ND<0.02		4.0	0.005	cis-1,2-Dichloroethene		0.11	4.0	0.005		
trans-1,2-Dichloroethene	ND<0.02		4.0	0.005	1,2-Dichloropropane		ND<0.020	4.0	0.005		
1,3-Dichloropropane 1,1-Dichloropropene	ND<0.02 ND<0.02		4.0	0.005	2,2-Dichloropropane cis-1,3-Dichloropropene		ND<0.020 ND<0.020	4.0	0.005		
trans-1,3-Dichloropropene	ND<0.02		4.0	0.005	Diisopropyl ether (DIPE)		ND<0.020	4.0	0.005		
Ethylbenzene	ND<0.02		4.0	0.005	Ethyl tert-butyl ether (ET	BE)	ND<0.020	4.0	0.005		
Freon 113	ND<0.40	)	4.0	0.1	Hexachlorobutadiene		ND<0.020	4.0	0.005		
Hexachloroethane	ND<0.02		4.0	0.005	2-Hexanone		ND<0.020	4.0	0.005		
Isopropylbenzene	ND<0.02		4.0	0.005	4-Isopropyl toluene		ND<0.020	4.0	0.005		
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	ND<0.02		4.0	0.005	Methylene chloride Naphthalene		ND<0.020	4.0	0.005		
A-Methyl-2-pentanone (MIBK) Nitrobenzene	ND<0.02 ND<0.40		4.0	0.005	n-Propyl benzene		ND<0.020 ND<0.020	4.0	0.005		
Styrene	ND<0.02		4.0	0.005	1,1,1,2-Tetrachloroethane		ND<0.020	4.0	0.005		
1,1,2,2-Tetrachloroethane	ND<0.02		4.0	0.005	Tetrachloroethene		ND<0.020	4.0	0.005		
Toluene	ND<0.02	0	4.0	0.005	1,2,3-Trichlorobenzene		ND<0.020	4.0	0.005		
1,2,4-Trichlorobenzene	ND<0.02		4.0	0.005	1,1,1-Trichloroethane		ND<0.020	4.0	0.005		
1,1,2-Trichloroethane	ND<0.02		4.0	0.005	Trichloroethene		0.53	4.0	0.005		
Trichlorofluoromethane	ND<0.02		4.0	0.005					0.005		
1,2,4-Trimethylbenzene Vinyl Chloride	ND<0.02 ND<0.02		4.0	0.005	1,3,5-Trimethylbenzene Xvlenes	ND<0.020 ND<0.020	4.0	0.005			
		v			coveries (%)				. 0.005		
%SS1:		92		3	%SS2:		92				
%SS3:		107					, , , , , , , , , , , , , , , , , , , ,				
Comments:											

\* water and vapor samples are reported in  $\mu g/L$ , 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  $\mu g$ /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  $\sim 1$  vol. % sediment; j) sample diluted 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 Ar		<u>cal, In</u>	<u>c.</u>	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		Client Pr	oject ID:	: 2942 Date Sampled: 09/19/06-09/20/06						
						Date Received:	09/20/06			
1330 S. Bascom Avenue, Ste. F		Client C	ontact: Jo	el Greg	er	Date Extracted:				
San Jose, CA 95128		Client P.	O.:			Date Analyzed	09/22/06-0	)9/25/06		
		C	AM / CCR	17 Me	tals*					
Lab ID	06094	04-004A	0609404	-005A	0609404-006A		Reporting Li	mit for DF =1		
Client ID	SSI	IA-1D	SS2A-	2D	SS3A-3D		ND means	not detected eporting limit		
Matrix		S	S		S		S	W		
Extraction Type	T	TLC	TTL	С	TTLC		mg/Kg	mg/L		
Analytical Method: 6020A			AS Metals, action Method				Work Order:	0609404		
Dilution Factor		1	1		1		1	1		
Antimony		3.4	3.4		2.7		0.5	NA		
Arsenic		17	6.0		5.8		0.5	NA		
Barium		170	260		190		5.0	NA		
Beryllium	(	).51	ND		0.59		0.5	NA		
Cadmium		1.3	8.9		26		0.25	NA		
Chromium		84	100		910		0.5	NA		
Cobalt		18	10		20		0.5	NA		
Copper		210	160		430		0.5	NA		
Lead		210	360		84		0.5	NA		
Mercury	(	).54	0.80	)	0.23		0.05	NA		
Molybdenum		1.9	1.1		1.7		0.5	NA		
Nickel		100	150		5400		0.5	NA		
Selenium		ND	ND		0.71		0.5	NA		
Silver		ND	2.0		2.9		0.5	NA		
Thallium		ND	ND		ND		0.5	NA		
Vanadium		100	44		39		0.5	NA		
Zinc		210	430		750		5.0	NA		
%SS:		104	102		105					
Comments										
<ul> <li>*water samples are reported in µg/L, proc mg/L, soil/sludge/solid samples in mg/kg,</li> <li># means surrogate diluted out of range; N instrument.</li> </ul>	wipe sam	ples in μg/v	wipe, filter s	amples i	n μg/filter.		-			

i) aqueous sample containing greater than  $\sim 1$  vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

Carry McCa	mpbell Analyti	cal, Inc	<u>.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com					
	"When Ouality Counts"	CI: D	· . ID . 201	Telephone:         877-252-9262         Fax:         925-252-9269           20.12         Do. 4         Do. 4         Do. 4         0.0         10.0         0.0         10.0					
Piers Environmenta	ll –	Client Proj	ject ID: 294	-2	Date Sampled: 09/19/06-0	9/20/06			
1330 S. Bascom Av	renue, Ste. F				Date Received: 09/20/06				
San Jose, CA 95128	2	Client Co	ntact: Joel (	Greger	Date Extracted: 10/05/06				
Sui 3030, CH 93120	,	Client P.O	Client P.O.: Date Analyzed 10/05/06						
		•	Cyanide, To	)tal*^	·				
Analytical Method: SM45	500-CN- E			1	Work Order:	0609404			
Lab ID	Client ID		Matrix		Total Cyanide	DF			
0609404-004A	SS1A-1D		S		1.5	1			
0609404-005A	SS2A-2D		S		1.3	1			
0609404-006A	SS3A-3D		S		6.1	10			

Reporting Limit for DF = 1; ND means not detected at	W	NA	
or above the reporting limit	S	0.1 mg/Kg	

\* water samples are reported in µg/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.

^All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

i) liquid sample contains greater than  $\sim 1$  vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; k) sample pretreatment was done to remove interfering sulfide per E335.4; m) sample pretreatment was done to remove interfering nitrate and nitrite per E335.4; n) results are reported on a dry weight basis; p) see attached narrative.

	Campbell Analyti "When Ouality Counts"	cal, Inc.	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 Environme	ntal	Client Project ID:	2942 Date Sampled: 09/19/06-09/20/06					
1330 S. Bascom	Avenue, Ste. F			Date Received: 09/20/06				
San Jaco CA 051	129	Client Contact: Jo	bel Greger	Date Extracted: 09/21/06				
San Jose, CA 951	128	Client P.O.:		Date Analyzed 09/21/06				
	M/2000	Chemical Oxygen	n Demand (COD)*					
Analytical Method: SI	Client ID	Matri	x	Work Order: 0	D609404			
0609404-004A	SS1A-1D	S		6900	1			
0609404-005A	SS2A-2D	S		18,000	1			
0609404-006A	SS3A-3D	S		14,000	1			

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

	<b>ampbell Analyti</b> "When Ouality Counts"	cal, Inc.		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 Environment	al	Client Projec	ct ID: 294	ID: 2942 Date Sampled: 09/19/06-09/2					
1330 S. Bascom A	venue, Ste. F				Date Received: 09/20/06				
San Jose, CA 9512	8	Client Conta	act: Joel C	Greger	Date Extracted: 09/29/06				
San 30se, CA 3512	0	Client P.O.:			Date Analyzed 09/29/06				
Analytical Method: SM5	5220D	Chemical C	Dxygen De	mand (COD)*	Work Order:	0609404			
Lab ID	Client ID		Matrix		COD	DF			
0609404-005B	SS2A		S		22,000	1			
0609404-005C	SS2B		S		23,000	1			
0609404-005D	SS2C		S		18,000	1			
0609404-005E	SS2D		S		12,000	1			
0609404-006B	SS3A		S		32,000	1			
0609404-006C	SS3B		S	11,000					
0609404-006D	SS3C		S	26,000					
0609404-006E	SS3D		S		7500	1			

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

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

	McCampbo		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 E	nvironmental			Clie	ent Project II	D: 2942			Dat	e Sampled:	09/20/06		
1330 S	. Bascom Avenue, S	te. F							Date	e Received:	09/20/06		
San Ios	se, CA 95128			Clie	ent Contact:	Joel Greg	ger		Dat	e Extracted:	09/28/06		
5411 508	SC, CA 95120			Clie	ent P.O.:				Dat	e Analyzed	09/29/06-	10/02	/06
Metals*													
	method SW3050B		_	.		cal methods		~			Work Order:	0609	
Lab ID	Client ID	Matrix	Extrac	tion	Arsenic	Cadmium	Chromium	Cop	per	Nickel	Zinc	DF	% SS
006B	SS3A	S	TTL	.C	7.2	4.1	86	10	00	97	500	1	103
006C	SS3B	S	TTL	.C	8.1	26	2400	85	50	18,000	370	1	106
006D	SS3C	S	TTL	.C	5.2	45	200	36	50	400	1800	1	106
006E	SS3D	S	TTL	.C	5.2	48	150	86	50	700	420	1	102
		1											
	ing Limit for DF =1;	W	TTL	.C	NA	NA	NA	N	A	NA	NA	1	NA
	ans not detected at or e the reporting limit	S	TTL	.C	0.5	0.25	0.5	0.	5	0.5	5.0	m	g/Kg

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification Nº 1644



	<u>McCampbo</u>	ell An en Ouality (		cal, Inc.	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 E	nvironmental			Client Project ID: 2	2942		Da	te Sampled: 09/19/0	6		
1330 S	. Bascom Avenue, St	e. F					Da	te Received: 09/20/0	6		
San Jos	se, CA 95128			Client Contact: Jo	el Greg	ger	Da	te Extracted: 09/28/0	6		
5411000				Client P.O.:			Da	te Analyzed 09/29/0	6-10/02	/06	
Extraction	method SW3050B			Met Analytical m		6020.4		Work Ord	er: 0609	9404	
Lab ID	Client ID	Matrix	Extract		letilous	Cadmium		Chromium	DF	% SS	
005B	SS2A	S	TTL	C 7.5		5.7		71	1	108	
005C	SS2B	S	TTL	C 6.4		2.7		55	1	104	
005E	SS2D	S	TTL	C 4.2		6.5		250	1	105	
		<u> </u>	<u> </u>						<u> </u>		
	ing Limit for DF =1; ans not detected at or	W	TTL			NA		NA		A	
abov	e the reporting limit	S	TTL	C 0.5		0.25		0.5	mg	/Kg	

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers E	nvironmental		Client Proj	ect ID: 2	2942		Date Sampled: 09/	19/06		
1330 S.	Bascom Avenue, Ste. F					Date Received: 09/2	20/06			
San Ios	e, CA 95128		Client Cor	ntact: Jo	el Greger		Date Extracted: 09/2	28/06		
Ball 903	c, cm 95126		Client P.O	.:			Date Analyzed: 09/2	29/06		
Extraction	nethod SW3050B			Met	als* ethods 6020A		Wood	k Order: 06	509404	
Lab ID	Client ID	Matrix			Arsenic		Chromium	DF	% SS	
004B	SS1A	s	TTLC		5.8		69	1	105	
004C	SS1B	s	TTLC		4.1		53	1	105	
004D	SS1C	s	TTLC		4.6		52	1	105	
004E	SS1D	s	TTLC		5.3		56	1	105	
005D	SS2C	S	TTLC		4.8		56	1	108	
	porting Limit for DF =1;	W	TTLC		NA		NA	N	A	
	means not detected at or bove the reporting limit	S	TTLC		0.5		0.5	mg/Kg		

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Er	nvironmental		Client Proj	ect ID: 2	2942	Date Sampled: 09/19/06				
1330 S.	Bascom Avenue, Ste. F					Date Received: 09/2	20/06			
San Ios	e, CA 95128		Client Cor	ntact: Jo	el Greger	Date Extracted: 09/2	28/06			
Dun 903	c, cm 95126		Client P.O	Client P.O.: Date Analyzed: 09/29/06						
Extraction	nethod SW3050B			Met Analytical m	als* ethods 6020A		Wor	k Order: 06	509404	
Lab ID	Client ID	Matrix			Arsenic		Chromium	DF	% SS	
004B	SS1A	S	TTLC		5.8		69	1	105	
004C	SS1B	S	TTLC		4.1		53	1	105	
004D	SS1C	S	TTLC		4.6		52	1	105	
004E	SS1D	S	TTLC		5.3		56	1	105	
	porting Limit for DF =1;	W	TTLC		NA		NA	N	A	
	means not detected at or pove the reporting limit	S	TTLC		0.5		0.5	mg/	/Kg	

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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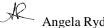
	McCampbe	ell An en Ouality		cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
Piers E	nvironmental			Client Project ID:	2942	•		te Sampled: 09/19/0				
1330 S	. Bascom Avenue, St	e. F					Da	te Received: 09/20/0	6			
San Ios	e, CA 95128			Client Contact: Jo	el Gre	ger	Da	te Extracted: 09/28/0	6			
5411 508	N, NA 15120			Client P.O.:			Da	te Analyzed 09/29/0	6-10/02	2/06		
					tals*							
Lab ID	Client ID	Matrix	Extract	Analytical n tion Arsenic	nethods	6020A Cadmium		Work Ord Chromium	DF	9404 % SS		
005B	SS2A	s	TTL			5.7		71	1	108		
005C	SS2B	S	TTL	.C 6.4		2.7		55	1	104		
005D	SS2C	S	TTL	.C 4.8		2.8		56	1	108		
005E	SS2D	S	TTL	.C 4.2		6.5		250	1	105		
									<u> </u>			
	ing Limit for DF =1; ans not detected at or	W	TTL			NA		NA	-	A		
above	e the reporting limit	S	TTL	C 0.5		0.25		0.5	mg	y/Kg		

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environn	nental	Client Project ID: 2	2942		Date Sampled: 09/19/06-09/20/06					
1330 S. Bascon	m Avenue, Ste. F				Date Received: 09/20/06					
San Jose, CA 9	5128	Client Contact: Jo	el Greger		Date Extracted: 09/20/06					
	5120	Client P.O.:			Date Analyzed 09/21/06					
		pł	<b>ł</b> *							
Analytical Method:	SW9045C Client ID		Matrix		Work Order: 0609404					
0609404-004A 0609404-005A	SS1A-1D SS2A-2D		S S		7.98 @ 24.5 °C 7.58 @ 24.5 °C					
0609404-005A			S		10.88 @ 24.5 °C					
5007404-000A					10.00 @ 27.3 C					
Method Ac	curacy and Reporting Units		W S		NA ±0.1, pH units @ °C					
					· •					

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McCampbell Analyt     "When Ouality Counts"	ical, Inc.	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	Client Project ID: 2	2942		Date Sampled: 09/19/06-09/20/06				
1330 S. Bascom Avenue, Ste. F				Date Received: 09/20/06				
San Jose, CA 95128	Client Contact: Jo	el Greger		Date Extracted: 09/28/06				
541 5050, 011 55120	Client P.O.:			Date Analyzed 09/28/06				
	pł	<b>I</b> *						
Analytical Method: SW9045C		Matrix		Work Order: 0609404				
	)			pH				
0609404-005B SS2A		S	9.30 @ 23.3°C					
0609404-005C SS2B		S		9.45 @ 23.3°C				
0609404-005D SS2C		S		8.12 @ 23.1°C				
0609404-005E SS2D		S		6.51 @ 23.3°C				
0609404-006B SS3A		S		7.70 @ 23.1°C				
0609404-006C SS3B		S		9.18 @ 23.1°C				
0609404-006D SS3C	SS3C			9.76 @ 23.2°C				
0609404-006E SS3D		S		11.34 @ 23.1°C				
		W		NA				
Method Accuracy and Reporting Units		S		±0.1, pH units @ °C				

DHS ELAP Certification N° 1644



"When Ouality Counts"

## QC SUMMARY REPORT FOR E218.6m

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0609404

EPA Method E218.6m	BatchID: 23797				Spiked Sample ID: 0609365-001a							
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	SD Acceptance Crite			%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	ND	40	102	104	2.53	93.1	96.5	3.59	80 - 120	20	90 - 110	10
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

### BATCH 23797 SUMMARY

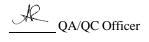
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004	9/19/06 12:37 PM	9/20/06	9/21/06 6:40 PM	0609404-005	9/19/06 1:08 PM	9/20/06	9/21/06 7:02 PM
0609404-006	9/20/06 8:01 AM	9/20/06	9/21/06 7:23 PM				

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 applicable to this method.





"When Ouality Counts"

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609404

EPA Method SW8260B	E	xtraction	SW503	0B		Batchl	D: 23787	S	piked San	nple ID	: 0609343-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria (º	%)
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME	ND	0.050	101	103	2.46	105	109	3.56	70 - 130	30	70 - 130	30
Benzene	ND	0.050	96.9	98.8	1.80	98.7	107	7.87	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	91.3	86.1	5.89	98.5	124	22.5	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	101	101	0	93.7	99.7	6.20	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.1	95.1	0	93.1	93.4	0.306	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	115	121	4.94	119	124	4.27	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	116	117	0.517	108	111	3.45	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	117	121	2.99	116	120	3.84	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	111	114	3.28	111	116	3.63	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	0.011	0.050	90.2	93	2.50	115	120	3.87	70 - 130	30	70 - 130	30
Toluene	ND	0.050	88.6	88.4	0.227	90.4	87.9	2.84	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	97.2	98.7	1.59	91.3	97	6.02	70 - 130	30	70 - 130	30
%SS1:	112	0.050	105	106	0.689	105	103	1.47	70 - 130	30	70 - 130	30
%SS2:	98	0.050	106	105	0.639	106	96	9.90	70 - 130	30	70 - 130	30
%SS3:	92	0.050	106	107	0.800	109	106	2.59	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

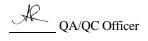
#### BATCH 23787 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-001	9/19/06 8:27 AM	9/20/06	9/26/06 7:56 AM	0609404-002	9/19/06 8:40 AM	9/20/06	9/26/06 8:41 AM
0609404-003	9/19/06 8:51 AM	9/20/06	9/26/06 9:26 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.





"When Quality Counts"

### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil					QC Matrix: Soil							WorkOrder 0609404			
EPA Method 6020A			Extract	tion SW3	050B		Bato	hID: 23846	6	Spiked Sample ID 0609397-052A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria (%)	)			
, indifie	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD			
Antimony	ND	50	100	99.4	0.736	10	99.2	101	1.51	75 - 125	20	80 - 120	20			
Arsenic	5	50	92.7	93	0.331	10	94.2	94.9	0.761	75 - 125	20	80 - 120	20			
Barium	290	500	95.7	96	0.207	100	96.4	97.8	1.48	75 - 125	20	80 - 120	20			
Beryllium	0.72	50	89.5	89.6	0.110	10	98.7	102	3.36	75 - 125	20	80 - 120	20			
Cadmium	ND	50	95	94.6	0.464	10	95.5	95.8	0.303	75 - 125	20	80 - 120	20			
Chromium	41	50	82.5	86.6	2.47	10	90.9	92.6	1.86	75 - 125	20	80 - 120	20			
Cobalt	13	50	84.5	84.1	0.328	10	95.4	99.3	3.95	75 - 125	20	80 - 120	20			
Copper	24	50	89.1	91.3	1.59	10	95.2	95.3	0.105	75 - 125	20	80 - 120	20			
Lead	10	50	94	93.7	0.193	10	96.4	98	1.74	75 - 125	20	80 - 120	20			
Mercury	ND	2.5	102	100	1.14	0.50	103	104	1.33	75 - 125	20	80 - 120	20			
Molybdenum	0.50	50	93.3	92.6	0.766	10	95	95.6	0.608	75 - 125	20	80 - 120	20			
Nickel	42	50	90.7	94.3	2.01	10	93.8	94.8	1.10	75 - 125	20	80 - 120	20			
Selenium	ND	50	95.6	94.3	1.28	10	93	94.4	1.49	75 - 125	20	80 - 120	20			
Silver	ND	50	91.3	90.7	0.636	10	94.5	95.2	0.791	75 - 125	20	80 - 120	20			
Thallium	ND	50	92.4	93.4	1.08	10	89.4	92.1	2.98	75 - 125	20	80 - 120	20			
Vanadium	72	50	81.1	88.1	3.05	10	91.2	92.6	1.51	75 - 125	20	80 - 120	20			
Zinc	56	500	94.3	94	0.304	100	97.7	98.6	0.917	75 - 125	20	80 - 120	20			
%SS:	108	250	105	107	2.41	250	101	102	1.58	70 - 130	20	70 - 130	20			

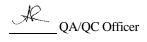
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 Nº 1644



"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 6020A

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

	BATCH 23846 SUMMARY											
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed					
0609404-004A	9/19/06 12:37 PM	9/20/06	9/22/06 3:02 AM	0609404-004A	9/19/06 12:37 PM	9/20/06	9/22/06 10:04 PM					
0609404-005A	9/19/06 1:08 PM	9/20/06	9/22/06 3:09 AM	0609404-005A	9/19/06 1:08 PM	9/20/06	9/25/06 8:14 PM					
0609404-006A	9/20/06 8:01 AM	9/20/06	9/22/06 3:16 AM	0609404-006A	9/20/06 8:01 AM	9/20/06	9/25/06 8:21 PM					
0609404-006A	9/20/06 8:01 AM	9/20/06	9/25/06 8:28 PM									

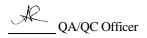
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 SM4500-CN<sup>-</sup> E

WorkOrder 0609404 W.O. Sample Matrix: Soil QC Matrix: Soil EPA Method SM4500-CN<sup>-</sup> E Extraction SM4500-CN<sup>-</sup> E BatchID: 23949 Spiked Sample ID: 0609530-002A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/Kg mg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD Total Cyanide 0.12 0.80 96.4 97.4 0.896 97.3 95.9 1.53 80 - 120 20 90 - 110 20 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

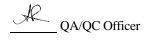
#### BATCH 23949 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004	9/19/06 12:37 PM	10/05/06	10/05/06 1:24 PM	0609404-005	9/19/06 1:08 PM	10/05/06	10/05/06 1:25 PM
0609404-006	9/20/06 8:01 AM	10/05/06	10/05/06 1:23 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.





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## QC SUMMARY REPORT FOR SM5220D

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0609404

EPA Method SM5220D	BatchID: 23796				Spiked Sample ID: 0609365-001A							
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	CSD Acceptance Cr		ce Criteria ('	%)
, maij to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
COD	3200	10000	109	104	3.45	106	99.6	6.41	90 - 110	20	90 - 110	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

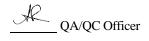
### BATCH 23796 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004	9/19/06 12:37 PM	9/21/06	9/21/06 5:01 PM	0609404-005	9/19/06 1:08 PM	9/21/06	9/21/06 5:07 PM
0609404-006	9/20/06 8:01 AM	9/21/06	9/21/06 5:13 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.





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### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil		QC Matrix: Soil WorkOrder 06094														
EPA Method 6020A			Extract	tion SW3	050B		Bato	:hID: 2398	1	Spiked Sample ID 0609551-001A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)						
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS / LCSD	RPD			
Arsenic	5.5	50	102	101	0.855	10	94.8	96.7	2.01	75 - 125	20	80 - 120	20			
Cadmium	0.5	50	97.4	97.4	0	10	94.9	94.3	0.550	75 - 125	20	80 - 120	20			
Chromium	33	50	95	94.7	0.236	10	90.4	91.6	1.33	75 - 125	20	80 - 120	20			
Copper	34	50	102	103	0.292	10	95.2	95.4	0.189	75 - 125	20	80 - 120	20			
Nickel	38	50	103	104	0.101	10	95.1	96.2	1.17	75 - 125	20	80 - 120	20			
Zinc	210	500	106	106	0	100	91	91.9	0.951	75 - 125	20	80 - 120	20			
%SS:	104	250	111	112	0.935	250	98	103	4.42	70 - 130	20	70 - 130	20			
All target compounds in the M NONE	lethod Blank	of this extr	raction bate	ch were NI	D less than the	e method R	L with the f	ollowing ex	aceptions:							

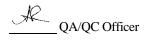
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 6020A

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0609404-004B	9/19/06 12:37 PM	9/28/06	9/29/06 9:09 PM	0609404-004C	9/19/06 12:37 PM	9/28/06	9/29/06 10:40 PM
0609404-004D	9/19/06 12:37 PM	9/28/06	9/29/06 11:25 PM	0609404-004E	9/19/06 12:37 PM	9/28/06	9/29/06 11:46 PM
0609404-005B	9/19/06 1:08 PM	9/28/06	9/29/06 9:14 PM	0609404-005C	9/19/06 1:08 PM	9/28/06	9/29/06 10:46 PM
0609404-005D	9/19/06 1:08 PM	9/28/06	9/29/06 11:31 PM	0609404-005E	9/19/06 1:08 PM	9/28/06	9/29/06 11:51 PM
0609404-005E	9/19/06 1:08 PM	9/28/06	10/02/06 4:32 PM	0609404-006B	9/20/06 8:01 AM	9/28/06	9/29/06 9:46 PM
0609404-006C	9/20/06 8:01 AM	9/28/06	9/29/06 11:18 PM	0609404-006C	9/20/06 8:01 AM	9/28/06	10/02/06 4:07 PM
0609404-006C	9/20/06 8:01 AM	9/28/06	10/02/06 4:14 PM	0609404-006C	9/20/06 8:01 AM	9/28/06	10/02/06 4:20 PM
0609404-006D	9/20/06 8:01 AM	9/28/06	9/29/06 11:38 PM	0609404-006D	9/20/06 8:01 AM	9/28/06	10/02/06 4:25 PM
0609404-006E	9/20/06 8:01 AM	9/28/06	9/29/06 11:58 PM	0609404-006E	9/20/06 8:01 AM	9/28/06	10/02/06 4:38 PM

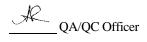
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 applicable to this method.

NR = apalyte 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 Nº 1644



"When Ouality Counts"

## QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:	рН			Matrix: S WorkOrder: 0609404							١	ler: 0609404	
Method Name	e: SW90	045C				U	nits ±, pH u	nits @ °C				BatchID	: 23847
SampleID		Sampl	le	[	DF	Dup	<sup>/</sup> Ser. Dil.	DF		RD		Acce	ptance Criteria
0609404-004A		7.98 @ 24	4.5 °C		1	7.99	@ 24.5 °C	1		0.01	1		±0.05
0609404-005A		7.58 @ 24	4.5 °C		1	7.57	@ 24.6 °C	1		0.01	1		±0.05
0609404-006A		10.88 @ 2	4.5 °C		1	10.89	@ 24.5 °C	1		0.01	1		±0.05
Sample ID	Date	Sampled [	Date Extra	acted	<u>BAT</u> Date An		<u>7 SUMMARY</u> Sample ID		Date Sam	nled	Date F	Extracted	Date Analyzed
0609404-004A		6 12:37 PM	9/20/		9/21/06 8	,	0609404-00		19/06 12:			9/20/06	9/21/06 8:40 PM
0609404-004A 0609404-005A		06 1:08 PM	9/20/		9/21/06 8 9/21/06 8		0609404-00		9/19/06 12.		-	9/20/06	9/21/06 8:40 PM
0609404-006A	9/20/	06 8:01 AM	9/20/	/06	9/21/06 9	0:00 PM	0609404-00	)6A 9	0/20/06 8:0	01 AM	9	9/20/06	9/21/06 9:00 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

RD = Absolute Value {Sample - Duplicate}; RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2].

A QA/QC Officer



"When Ouality 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	Client Project ID: 2942 San Pablo	Date Sampled: 10/09/06
1330 S. Bascom Avenue, Ste. F		Date Received: 10/10/06
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 10/17/06
5415050, 011 75120	Client P.O.:	Date Completed: 10/17/06

#### WorkOrder: 0610200

October 17, 2006

Dear Joel:

Enclosed are:

- 1). the results of **5** analyzed samples from your **2942 San Pablo project**,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence

in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

0610200

610bal 10 # SL 06001 38148

Total Patroleum Hydrocarbons (418.1)           EPA 601/8010/8021 (Balocarbons)           EPA 608 / 8081 (C1 Pesticides)           EPA 608 / 8081 (C1 Pesticides)           EPA 608 / 8081 (C1 Pesticides)           EPA 618 / 802 PCB*s ONLY           EPA 618 / 802 PCB*s ONLY           EPA 8140 / 8141 (NP Pesticides)           EPA 8140 / 8141 (NP Pesticides)           EPA 8150 / 8151 (Acidic Herbicides)           EPA 8254.2 / 624 / 8260 (VOCG)           PAH*s / PNA*s by EPA 625 / 8270 / 8310           V         CAM-17 Mecuals (6010 / 6020)           Metals (6010 / 6020)         LUFT 5 Mecuals (6010 / 6020)           X         Act Ch177ML         2/5, /           X         Act N170ML         2/5, /           X         Act N1 (de 35 5.2.2.         3.5.2.	Commer Filter Samples or Meta nalysis: Ves (No Here Here Helo
	Samples or Meta nalysis: es (No
	Samples or Meta nalysis: es (No
	nalysis: es (No
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	And the second data with the s
COMMENTS:	

PAGE 02/02

JOEL GRÉGER

5107871457 10/06/2006 09:27

<u> </u>	<b>Campbell Analyti</b> "When Ouality Counts"	cal, Inc.		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 Environmen	ıtal	Client Project ID:	2942	2 San Pablo	Date Sampled: 10/09/06			
1330 S. Bascom A	Avenue, Ste. F				Date Received: 10/10/06			
San Jose, CA 9512	10	Client Contact:	Joel G	dreger	Date Extracted: 10/10/06			
Sall Jose, CA 951.	28	Client P.O.:			Date Analyzed: 10/10/06			
		Hexachi	Hexachrome by IC*					
Analytical Method: E2					Work Order:			
Lab ID	Client ID	Mat	rix		Hexachrome	DF		
0610200-001E	MW1	W	7		ND	1		
0610200-002E	MW2	W	T		ND	1		
0610200-003E	MW3	W	7		0.48	1		
0610200-004E	MW4	W	7		0.34	1		
0610200-005E	MW5	w	T		0.26	1		
						<u> </u>		

Reporting Limit for DF = 1; ND means not detected at	W	0.2 µg/L	
or above the reporting limit	S	NA	

\* water samples are reported in µg/L.

N/A means surrogate 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 greater than ~1 vol. % sediment; j) sample diluted due to matrix interference; p) see attached narrative.

McCampbell	Analyti	cal,	Inc.		Web: www.mccampb	ell.com	Pittsburg, CA 94565-17 E-mail: main@mccamp 62 Fax: 925-252-9269	bell.com		
Piers Environmental		Clie	nt Proie	ect ID:	2942 San Pablo	Date S	ampled: 10/09/0	)6		
			j-				eceived: 10/10/0			
1330 S. Bascom Avenue, Ste. I	Ę									
		Clie	nt Con	tact: Jo	el Greger	Date E	Extracted: 10/16/06			
San Jose, CA 95128		Clie	nt P.O.:			Date A	nalyzed 10/16/0	)6		
	Valatila O	mani	og hy D	8-T on	l GC/MS (Basic Target )	Lict)*				
	volatile O	gam	-		_	List)		1 0.51		
Extraction Method: SW5030B			Analy	tical Meth	od: SW8260B		Work Or	der: 061	0200	
Lab ID					0610200-001B					
Client ID					MW1					
Matrix				Domontino	Water			1	Depenting	
Compound	Concentrati	on *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit	
Acetone	ND<500	0	500	10	Acrolein (Propenal)		ND<2500	500	5.0	
Acrylonitrile	ND<100		500	2.0	tert-Amyl methyl ether (T	CAME)	ND<250	500	0.5	
Benzene	ND<250		500	0.5	Bromobenzene		ND<250	500	0.5	
Bromochloromethane Bromoform	ND<250 ND<250		500 500	0.5	Bromodichloromethane Bromomethane		ND<250 ND<250	500 500	0.5	
2-Butanone (MEK)	ND<230		500	2.0	t-Butyl alcohol (TBA)		ND<2500	500	5.0	
n-Butyl benzene	ND<100		500	0.5	sec-Butyl benzene		ND<250	500	0.5	
tert-Butyl benzene	ND<250		500	0.5	Carbon Disulfide		ND<250	500	0.5	
Carbon Tetrachloride	ND<250	)	500	0.5	Chlorobenzene		ND<250	500	0.5	
Chloroethane	ND<250		500	0.5	2-Chloroethyl Vinyl Ether		ND<500	500	1.0	
Chloroform	ND<250		500	0.5	Chloromethane		ND<250	500	0.5	
2-Chlorotoluene Dibromochloromethane	ND<250 ND<250		500 500	0.5	4-Chlorotoluene 1,2-Dibromo-3-chloroproj		ND<250 ND<250	500 500	0.5	
1,2-Dibromoethane (EDB)	ND<250		500	0.5	Dibromomethane	Jane	ND<250	500	0.5	
1,2-Dichlorobenzene	ND<250		500	0.5	1,3-Dichlorobenzene		ND<250	500	0.5	
1,4-Dichlorobenzene	ND<250		500	0.5	Dichlorodifluoromethane		ND<250	500	0.5	
1,1-Dichloroethane	ND<250		500	0.5	1,2-Dichloroethane (1,2-D	DCA)	ND<250	500	0.5	
1,1-Dichloroethene	ND<250		500	0.5	cis-1,2-Dichloroethene		ND<250	500	0.5	
trans-1,2-Dichloroethene	ND<250		500	0.5	1,2-Dichloropropane		ND<250	500	0.5	
1,3-Dichloropropane 1,1-Dichloropropene	ND<250 ND<250		500 500	0.5	2,2-Dichloropropane cis-1,3-Dichloropropene		ND<250 ND<250	500 500	0.5	
trans-1,3-Dichloropropene	ND<250		500	0.5	Diisopropyl ether (DIPE)		ND<250	500	0.5	
Ethylbenzene	ND<250		500	0.5	Ethyl tert-butyl ether (ET	BE)	ND<250	500	0.5	
Freon 113	ND<500	0	500	10	Hexachlorobutadiene		ND<250	500	0.5	
Hexachloroethane	ND<250		500	0.5	2-Hexanone		ND<250	500	0.5	
Isopropylbenzene	ND<250		500	0.5	4-Isopropyl toluene		ND<250	500	0.5	
Methyl-t-butyl ether (MTBE) 4-Methyl-2-pentanone (MIBK)	ND<250 ND<250		500 500	0.5	Methylene chloride Naphthalene		ND<250 ND<250	500 500	0.5	
Nitrobenzene	ND<230		500	10	n-Propyl benzene		ND<250	500	0.5	
Styrene	ND<250		500	0.5	1,1,1,2-Tetrachloroethane		ND<250	500	0.5	
1,1,2,2-Tetrachloroethane	ND<250		500	0.5	Tetrachloroethene		ND<250	500	0.5	
Toluene	ND<250		500	0.5	1,2,3-Trichlorobenzene		ND<250	500	0.5	
1,2,4-Trichlorobenzene	ND<250		500	0.5	1,1,1-Trichloroethane		ND<250	500	0.5	
1,1,2-Trichloroethane	ND<250		500	0.5	Trichloroethene		9100 ND (250	500	0.5	
Trichlorofluoromethane 1,2,4-Trimethylbenzene	ND<250		500 500	0.5	1,2,3-Trichloropropane 1,3,5-Trimethylbenzene		ND<250 ND<250	500	0.5	
Vinvl Chloride	ND<250 ND<250		500	0.5	Xvlenes		ND<250	500 500	0.5	
					coveries (%)					
%SS1:		98			%SS2:		96	5		
%SS3:		95								
Comments:										

\* water and vapor samples are reported in  $\mu g/L$ , 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  $\mu g$ /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  $\sim 1$  vol. % sediment; j) sample diluted 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; q) reported in ppm

<u>McCampbell</u>		cal, I	nc.		Web: www.mccamp	bell.com	Pittsburg, CA 94565-17 E-mail: main@mccamp	bell.com		
	Duality Counts"						62 Fax: 925-252-9269			
Piers Environmental		Client l	Proje	ect ID:	2942 San Pablo	Date S	ampled: 10/09/0	6		
1220 G D A G C						Date R	eceived: 10/10/06			
1330 S. Bascom Avenue, Ste. 1		Client	Con	tact: Jo	el Greger	Date E	xtracted: 10/12/06			
San Jose, CA 95128	-	Client I						-		
5417030, 01170120			0			Date P	nalyzed 10/12/0	0		
	Volatile Or	ganics	by P	&T and	l GC/MS (Basic Targe	t List)*				
Extraction Method: SW5030B			Analy	tical Meth	od: SW8260B		Work Or	der: 061	0200	
Lab ID					0610200-002B					
Client ID					MW2					
Matrix					Water					
Compound	Concentratio	n * I	DF	Reporting Limit	Compound		Concentration *	DF	Reporti Limi	
Acetone	ND<33		3.3	10	Acrolein (Propenal)			3.3	5.0	
Acetone	ND<33 ND<6.7		<u>3.3</u> 3.3	2.0	tert-Amyl methyl ether (	TAME)	ND<17 ND<1.7	3.3	0.5	
Benzene	ND<1.7		3.3	0.5	Bromobenzene	1/1012)	ND<1.7	3.3	0.5	
Bromochloromethane	ND<1.7		3.3	0.5	Bromodichloromethane		ND<1.7	3.3	0.5	
Bromoform	ND<1.7		3.3	0.5	Bromomethane		ND<1.7	3.3	0.5	
2-Butanone (MEK)	ND<6.7	3	3.3	2.0	t-Butyl alcohol (TBA)		ND<17	3.3	5.	
n-Butyl benzene	ND<1.7		3.3	0.5	sec-Butyl benzene		ND<1.7	3.3	0.	
tert-Butyl benzene	ND<1.7	~	3.3	0.5	Carbon Disulfide		57	3.3	0.:	
Carbon Tetrachloride	ND<1.7		3.3	0.5	Chlorobenzene		ND<1.7	3.3	0.:	
Chloroethane	ND<1.7	3	3.3	0.5	2-Chloroethyl Vinyl Ethe	er	ND<3.3	3.3	1.	
Chloroform	ND<1.7		3.3	0.5	Chloromethane		ND<1.7	3.3	0.:	
2-Chlorotoluene	ND<1.7		3.3	0.5	4-Chlorotoluene		ND<1.7	3.3	0.	
Dibromochloromethane	ND<1.7	3	3.3	0.5	1,2-Dibromo-3-chloropro	opane	ND<1.7	3.3	0.5	
1,2-Dibromoethane (EDB)	ND<1.7		3.3	0.5	Dibromomethane		ND<1.7	3.3	0.	
1,2-Dichlorobenzene	ND<1.7		3.3	0.5	1,3-Dichlorobenzene		ND<1.7	3.3	0.	
1,4-Dichlorobenzene	ND<1.7		3.3	0.5	Dichlorodifluoromethane		ND<1.7	3.3	0.	
1,1-Dichloroethane	ND<1.7		3.3	0.5	1,2-Dichloroethane (1,2-	DCA)	ND<1.7	3.3	0.	
1,1-Dichloroethene	ND<1.7		3.3	0.5	cis-1,2-Dichloroethene		ND<1.7	3.3	0.:	
trans-1,2-Dichloroethene	ND<1.7		3.3	0.5	1,2-Dichloropropane		ND<1.7	3.3	0.	
1,3-Dichloropropane	ND<1.7		3.3	0.5	2,2-Dichloropropane		ND<1.7	3.3	0.	
1,1-Dichloropropene	ND<1.7		3.3	0.5	cis-1,3-Dichloropropene		ND<1.7	3.3	0.	
trans-1,3-Dichloropropene	ND<1.7		3.3	0.5	Diisopropyl ether (DIPE		ND<1.7	3.3	0.	
Ethylbenzene Freon 113	ND<1.7 ND<33		<u>3.3</u> 3.3	0.5	Ethyl tert-butyl ether (E'	IBE)	ND<1.7	3.3 3.3	0.	
Hexachloroethane			3.3	0.5	Hexachlorobutadiene 2-Hexanone		ND<1.7 ND<1.7	3.3	0.	
	ND<1.7 ND<1.7			0.5			ND<1.7	3.3	0.	
Isopropylbenzene Methyl-t-butyl ether (MTBE)	ND<1.7		<u>3.3</u> 3.3	0.5	4-Isopropyl toluene Methylene chloride		ND<1.7	3.3	0.	
4-Methyl-2-pentanone (MIBK)	ND<1.7		3.3	0.5	Naphthalene		ND<1.7	3.3	0.	
Nitrobenzene	ND<33		3.3	10	n-Propyl benzene		ND<1.7	3.3	0.	
Styrene	ND<1.7		3.3	0.5	1,1,1,2-Tetrachloroethar	ne	ND<1.7	3.3	0.	
1,1,2,2-Tetrachloroethane	ND<1.7		3.3	0.5	Tetrachloroethene		ND<1.7	3.3	0.	
Toluene	ND<1.7		3.3	0.5	1,2,3-Trichlorobenzene		ND<1.7	3.3	0.	
1,2,4-Trichlorobenzene	ND<1.7		3.3	0.5	1,1,1-Trichloroethane		ND<1.7	3.3	0.	
1,1,2-Trichloroethane	ND<1.7		3.3	0.5	Trichloroethene		50	3.3	0.	
Trichlorofluoromethane	ND<1.7	3	3.3	0.5	1,2,3-Trichloropropane		ND<1.7	3.3	0.	
1,2,4-Trimethylbenzene	ND<1.7	3	3.3	0.5	1,3,5-Trimethylbenzene		ND<1.7	3.3	0.	
Vinvl Chloride	ND<1.7		3.3	0.5	Xvlenes		ND<1.7	3.3	0.	
		S	urro	ogate Re	coveries (%)					
%SS1:		104			%SS2:		98			
%SS3:		95								

\* 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; 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

McCampbell	Analytical	<u>, Inc.</u>			ell.com	Pittsburg, CA 94565-17 E-mail: main@mccamp 62 Fax: 925-252-9269	bell.com		
Piers Environmental	Cli	ent Proje	ect ID:	2942 San Pablo	Date S	ampled: 10/09/0	)6		
		5			Date R	eceived: 10/10/0	)6		
1330 S. Bascom Avenue, Ste. I	F		<b>T</b>						
	Cli	ent Con	tact: Jo	el Greger	Date E	Extracted: 10/11/06			
San Jose, CA 95128	Cli	ent P.O.:			Date A	nalyzed 10/11/0	)6		
	Volatile Organ	ics by P	&T and	d GC/MS (Basic Target I	(_ist)*				
Extraction Method: SW5030B	, on the organ	•		nod: SW8260B	<b>L</b> 150)	Work Or	der: 061	0200	
		Anary	fical Meti			WOIK OI	uci. 001	0200	
Lab ID				0610200-003B					
Client ID Matrix				MW3 Water					
Matrix			Reporting					Reporting	
Compound	Concentration *	DF	Limit	Compound		Concentration *	DF	Limit	
Acetone	ND	1.0	10	Acrolein (Propenal)		ND	1.0	5.0	
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (T	AME)	ND	1.0	0.5	
Benzene Bromochloromethane	ND ND	1.0	0.5	Bromobenzene Bromodichloromethane		ND 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	5.0	
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 Disulfide		7.0	1.0	0.5	
Carbon Tetrachloride	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 Dibromochloromethane	ND ND	1.0	0.5	4-Chlorotoluene 1,2-Dibromo-3-chloroprop		ND ND	1.0 1.0	0.5	
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ane	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-D	CA)	ND	1.0	0.5	
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene		1.5	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 trans-1,3-Dichloropropene	ND ND	1.0	0.5	cis-1,3-Dichloropropene Diisopropyl ether (DIPE)		ND ND	1.0	0.5	
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETH	BE)	ND	1.0	0.5	
Freon 113	ND	1.0	10	Hexachlorobutadiene	<u>, ()</u>	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 ND	1.0	10 0.5	n-Propyl benzene 1,1,1,2-Tetrachloroethane		ND ND	1.0	0.5	
Styrene 1.1.2.2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene		ND	1.0 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		ND	1.0	0.5	
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene		6.5	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	
Vinvl Chloride	ND	1.0 Surr	0.5	Xvlenes		ND	1.0	0.5	
%SS1:	1/	)3	igate Ke	%SS2:		96	:		
%SS1: %SS3:		)0		70 332:		96	)		
Comments:				1					

\* 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; 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



<u>McCampbell</u>		cal, l	lnc.		Web: www.mccamp	bell.com	Pittsburg, CA 94565-17 E-mail: main@mccampl	bell.com		
	Duality Counts"					r	62 Fax: 925-252-9269			
Piers Environmental		Client	Proje	ect ID:	2942 San Pablo	Date S	ampled: 10/09/0	6		
1220 0 0 0 0	-					Date R	Received: 10/10/0	6		
1330 S. Bascom Avenue, Ste. 1	r -	Client	t Con	tact: Jo	el Greger	Date E	xtracted: 10/12/06			
San Jose, CA 95128	-	Client						-		
5411 5656, 611 75126		Chem	P.U.:			Date A	nalyzed 10/12/0	0		
	Volatile Or	ganics	s by P	&T and	l GC/MS (Basic Targe	t List)*				
Extraction Method: SW5030B			Analy	tical Meth	od: SW8260B		Work Or	der: 061	0200	
Lab ID					0610200-004B					
Client ID					MW4					
Matrix					Water					
	Concentration		DE	Reporting			Composition *	DE	Reporti	
Compound	Concentratio	on *	DF	Limit	Compound		Concentration *	DF	Limit	
Acetone	ND<33		3.3	10	Acrolein (Propenal)	(The A A 477)	ND<17	3.3	5.0	
Acrylonitrile	ND<6.7		3.3 3.3	2.0 0.5	tert-Amyl methyl ether ( Bromobenzene	TAME)	ND<1.7 ND<1.7	3.3 3.3	0.5	
Benzene Bromochloromethane	ND<1.7 ND<1.7		<u>3.3</u>	0.5	Bromodichloromethane		ND<1.7 ND<1.7	3.3	0.	
Bromoform	ND<1.7		3.3	0.5	Bromomethane		ND<1.7	3.3	0.	
2-Butanone (MEK)	ND<1.7		3.3	2.0	t-Butyl alcohol (TBA)		ND<1.7	3.3	5.0	
n-Butyl benzene	ND<0.7		3.3	0.5	sec-Butyl benzene		ND<17	3.3	0.	
tert-Butyl benzene	ND<1.7		3.3	0.5	Carbon Disulfide		47	3.3	0.	
Carbon Tetrachloride	ND<1.7		3.3	0.5	Chlorobenzene		ND<1.7	3.3	0.5	
Chloroethane	ND<1.7		3.3	0.5	2-Chloroethyl Vinyl Eth	er	ND<3.3	3.3	1.0	
Chloroform	ND<1.7		3.3	0.5	Chloromethane		ND<1.7	3.3	0.5	
2-Chlorotoluene	ND<1.7		3.3	0.5	4-Chlorotoluene		ND<1.7	3.3	0.5	
Dibromochloromethane	ND<1.7		3.3	0.5	1,2-Dibromo-3-chloropro	opane	ND<1.7	3.3	0.5	
1,2-Dibromoethane (EDB)	ND<1.7		3.3	0.5	Dibromomethane		ND<1.7	3.3	0.5	
1,2-Dichlorobenzene	ND<1.7		3.3	0.5	1,3-Dichlorobenzene		ND<1.7	3.3	0.5	
1,4-Dichlorobenzene	ND<1.7		3.3	0.5	Dichlorodifluoromethane		ND<1.7	3.3	0.5	
1,1-Dichloroethane	ND<1.7		3.3	0.5	1,2-Dichloroethane (1,2-	DCA)	ND<1.7	3.3	0.5	
1,1-Dichloroethene trans-1,2-Dichloroethene	ND<1.7		3.3 3.3	0.5	cis-1,2-Dichloroethene 1,2-Dichloropropane		4.4 ND<1.7	3.3 3.3	0.5	
1.3-Dichloropropane	ND<1.7 ND<1.7		3.3	0.5	2,2-Dichloropropane		ND<1.7	3.3	0.5	
1,1-Dichloropropene	ND<1.7		3.3	0.5	cis-1,3-Dichloropropene		ND<1.7	3.3	0.5	
trans-1,3-Dichloropropene	ND<1.7		3.3	0.5	Diisopropyl ether (DIPE	)	ND<1.7	3.3	0.4	
Ethylbenzene	ND<1.7		3.3	0.5	Ethyl tert-butyl ether (E'		ND<1.7	3.3	0.5	
Freon 113	ND<33		3.3	10	Hexachlorobutadiene	/	ND<1.7	3.3	0.5	
Hexachloroethane	ND<1.7		3.3	0.5	2-Hexanone		ND<1.7	3.3	0.5	
Isopropylbenzene	ND<1.7		3.3	0.5	4-Isopropyl toluene		ND<1.7	3.3	0.5	
Methyl-t-butyl ether (MTBE)	ND<1.7		3.3	0.5	Methylene chloride		ND<1.7	3.3	0.5	
4-Methyl-2-pentanone (MIBK)	ND<1.7		3.3	0.5	Naphthalene		ND<1.7	3.3	0.5	
Nitrobenzene	ND<33		3.3	10	n-Propyl benzene		ND<1.7	3.3	0.5	
Styrene	ND<1.7		3.3	0.5	1,1,1,2-Tetrachloroethan	ne	ND<1.7	3.3	0.5	
1,1,2,2-Tetrachloroethane	ND<1.7		3.3	0.5	Tetrachloroethene		ND<1.7	3.3	0.	
Toluene 1,2,4-Trichlorobenzene	ND<1.7 ND<1.7		3.3	0.5	1,2,3-Trichlorobenzene 1,1,1-Trichloroethane		ND<1.7	3.3	0.1	
1,2,4-1richlorobenzene 1,1,2-Trichloroethane	ND<1.7 ND<1.7		3.3 3.3	0.5	Trichloroethene		ND<1.7 8.7	3.3 3.3	0.	
Trichlorofluoromethane	ND<1.7 ND<1.7		3.3	0.5	1,2,3-Trichloropropane		8.7 ND<1.7	3.3	0.	
1,2,4-Trimethylbenzene	ND<1.7		3.3	0.5	1,3,5-Trimethylbenzene		ND<1.7	3.3	0.	
Vinvl Chloride	ND<1.7		3.3	0.5	Xvlenes		ND<1.7	3.3	0.	
					coveries (%)					
%SS1:		103			%SS2:		98			
%SS3:	1	95			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		70			

\* 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; 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

McCampbell	Analytical	<u>, Inc.</u>		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	Clie	ent Proje	ect ID:	2942 San Pablo	Date Sa	ampled: 10/09/0	)6		
				1	Date R	Received: 10/10/06			
1330 S. Bascom Avenue, Ste. I		ant Con	taati Ia						
See Less CA 05129						xtracted: 10/12/0			
San Jose, CA 95128	Clie	ent P.O.:			Date A	analyzed 10/12/0	)6		
	Volatile Organ	ics by P	&T and	d GC/MS (Basic Target I	List)*				
Extraction Method: SW5030B	-	Analy	tical Meth	nod: SW8260B		Work Or	der: 061	0200	
Lab ID									
Client ID									
Matrix				MW5 Water					
Compound	Concentration *	DF	Reporting	Compound		Concentration *	DF	Reporting	
		1	Limit				Limit		
Acetone Acrylonitrile	ND ND	1.0	10 2.0	Acrolein (Propenal) tert-Amyl methyl ether (TA	AME)	ND ND	1.0	5.0 0.5	
Benzene	ND	1.0	0.5	Bromobenzene	AME)	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	5.0	
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 Disulfide		3.3	1.0	0.5	
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene		ND	1.0	0.5	
Chloroethane Chloroform	ND ND	1.0	0.5	2-Chloroethyl Vinyl Ether Chloromethane		ND ND	1.0	1.0 0.5	
2-Chlorotoluene	ND	1.0	0.5		-Chlorotoluene			0.5	
Dibromochloromethane	ND	1.0	0.5		1,2-Dibromo-3-chloropropane			0.5	
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-D	CA)	ND	1.0	0.5	
1,1-Dichloroethene trans-1,2-Dichloroethene	ND ND	1.0	0.5	cis-1,2-Dichloroethene 1,2-Dichloropropane		4.5 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 (ETB	BE)	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 Methyl-t-butyl ether (MTBE)	ND ND	1.0	0.5	4-Isopropyl toluene Methylene chloride		ND 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		ND	1.0	0.5	
1,1,2-Trichloroethane Trichlorofluoromethane	ND ND	1.0	0.5	Trichloroethene 1,2,3-Trichloropropane		39 ND	1.0	0.5	
1,2,4-Trimethylbenzene	ND	0.5					0.5		
Vinvl Chloride	3.4	1.0	0.5	Xvlenes		ND	1.0	0.5	
		Surro	ogate Re	ecoveries (%)					
%SS1:	10	)4		%SS2:		97	1		
%SS3:	10	00							
Comments:									

\* water and vapor samples are reported in  $\mu g/L$ , 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  $\mu g$ /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  $\sim 1$  vol. % sediment; j) sample diluted 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; q) reported in ppm

<u>McCampbell An</u>	alytical, Ir	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com						
"When Ouality	Counts"		Telephone: 8	77-252-9262 Fax: 925	5-252-9269				
Piers Environmental	Client P	roject ID: 2942 S	2942 San PabloDate Sampled:10/09/06						
				Date Received: 10/10/06					
1330 S. Bascom Avenue, Ste. F									
	Client C	Contact: Joel Gre	ger	Date Extracted:	10/10/06				
San Jose, CA 95128	Client P	.0.:		Date Analyzed:	10/12/06				
	(	CAM / CCR 17 M	etals*						
Lab ID	0610200-001C	0610200-002C	0610200-003C	0610200-004C	Reporting Lir	nit for DF =1			
Client ID	MW1	MW2	MW3	MW4	ND means above the re				
Matrix	W	W	W	W	s	W			
Extraction Type	DISS.	DISS.	DISS.	DISS.	mg/kg	μg/L			
	ICP-	MS Metals, Conc	entration*						
Analytical Method: E200.8		raction Method: E200.			Work Order:	0610200			
Dilution Factor	1	1	1	1	1	1			
Antimony	ND	ND	ND	ND	NA	0.5			
Arsenic	0.65	ND	0.57	3.7	NA	0.5			
Barium	360	230	230	420	NA	5.0			
Beryllium	ND	ND	ND	ND	NA	0.5			
Cadmium	0.79	0.40	0.46	ND	NA	0.25			
Chromium	1.3	3.0	1.3	0.80	NA	0.5			
Cobalt	1.5	1.8	1.4	ND	NA	0.5			
Copper	1.6	2.0	4.6	1.0	NA	0.5			
Lead	1.9	6.4	2.0	1.0	NA	0.5			
Mercury	ND	ND	ND	ND	NA	0.012			
Molybdenum	1.2	0.91	1.0	2.2	NA	0.5			
Nickel	3.8	12	3.9	1.7	NA	0.5			
Selenium	ND	0.59	ND	ND	NA	0.5			
Silver	ND	ND	ND	ND	NA	0.19			
Thallium	ND	ND	ND	ND	NA	0.5			
Vanadium	3.9	3.5	2.4	0.91	NA	0.5			
Zinc	54	130	78	36	NA	5.0			
%SS:	N/A	N/A	N/A	N/A					
Comments		1			1				
			1	1					

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than  $\sim 1$  vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell An "When Ouality		cal, In	<u>c.</u>	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		Client Pro	oject ID:	2942 Sa	an Pablo	Date Sampled:	10/09/06			
						Date Received:	10/10/06			
1330 S. Bascom Avenue, Ste. F	-	Client Co	ontact: Jo	el Greg	er	Date Extracted:				
San Jaco, CA 05128	-	Client P.0		01 0108	••					
San Jose, CA 95128		Chent P.C	J.:			Date Analyzed:	10/12/06			
		C	AM / CCF	R 17 Me	tals*					
Lab ID	06102	00-005C						nit for DF =1;		
Client ID	Client ID MW5						ND means r above the re	not detected porting limit		
Matrix	Matrix W						S	W		
Extraction Type	Extraction Type D						mg/kg	μg/L		
Analytical Method: E200.8			IS Metals,		ntration*		Work Ordon	0610200		
Dilution Factor		1	action Method	1: E200.8			Work Order:	1		
Antimony		ND					NA	0.5		
Arsenic		3.1					NA	0.5		
Barium		20					NA	5.0		
Beryllium	١	٧D					NA	0.5		
Cadmium	1	٧D					NA	0.25		
Chromium	1	1.1					NA	0.5		
Cobalt		7.1					NA	0.5		
Copper		7.1					NA	0.5		
Lead	1	1.1					NA	0.5		
Mercury	١	ND					NA	0.012		
Molybdenum		26					NA	0.5		
Nickel	3	3.5					NA	0.5		
Selenium	1	1.3					NA	0.5		
Silver	1	ND					NA	0.19		
Thallium	1	ND					NA	0.5		
Vanadium		3.1					NA	0.5		
Zinc		72				-	NA	5.0		
%SS:	Ν	J/A								
Commont.							1			
Comments			11	1 1			<u> </u>	. 11		
*water samples are reported in µg/L, prod mg/L, soil/sludge/solid samples in mg/kg, v # means surrogate diluted out of range; N	wipe sam	ples in µg/v	vipe, filter s	amples i	n μg/filter.		-			
instrument.										

i) aqueous sample containing greater than  $\sim 1$  vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

	Campbell Analyti	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com						
	"When Ouality Counts"			•	377-252-9262 Fax: 925-252-9269				
Piers Environmen	ntal	Client Project ID:	2942 San	Pablo	Date Sampled: 10/09/06				
1330 S. Bascom	Avenue, Ste. F			Date Received: 10/10/06					
San Jose, CA 951	28	Client Contact: J	oel Greger	r	Date Extracted: 10/11/06				
San Jose, CA JJ1	20	Client P.O.:			Date Analyzed: 10/11/06				
		Cyanie	de, Total*						
Analytical Method: E335.3 / Kelada-01 Work Order: 061020									
Lab ID	Client ID	Matr	ix		Total Cyanide	DF			
0610200-001D	MW1	W			ND	1			
0610200-002D	MW2	W			ND	1			
0610200-003D	MW3		ND						
0610200-004D	MW4			ND					
0610200-005D	MW5	W		22					
			1						

Reporting Limit for DF = 1; ND means not detected at	W	2.0 µg/L	
or above the reporting limit	S	NA	

\* water samples are reported in ug/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.

^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

i) liquid sample contains greater than ~1 vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering nitrate and nitrite per E335.4; p) see attached narrative.

	McCampbell A	Analyt lity Counts"		:	Web: www.m		ittsburg, CA 94565 E-mail: main@mcca 2 Fax: 925-252-9	mpbell.com				
Piers En	vironmental		Client Proj	ect ID: 2942	San Pablo		Date Sampled: 10/09/06					
1330 S.	Bascom Avenue, Ste. F						Date Received: 10/10/06					
Son Iooo	CA 05129		Client Con	tact: Joel Gr	eger		Date Extract	ed: 10/12/06				
San Jose	Client P.O.: Date Analyzed: 10/12/06											
Extraction	Gasoline method: SW5030B	Range ((		tile Hydrocal		line with BTH	X and MTBE	* Work Order	: 0610	0200		
Lab ID	Client ID	Toluene	Ethylbenzene	Xylenes	DF	% SS						
001A	MW1	w	6800,f	ND	ND	ND	ND	ND	1	97		
002A	MW2	w	ND	ND	ND	ND	ND	ND	1	88		
003A	MW3	W	ND	ND	ND	ND	ND	ND	1	93		
004A	MW4	W	ND	ND	ND	ND	ND	ND	1	111		
005A	MW5	W	ND	ND ND ND		ND	ND	ND	1	110		
Repo	orting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L		
ND n	neans not detected at or ove the reporting limit	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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## **QC SUMMARY REPORT FOR Kelada-01**

W.O. Sample Matrix: Water		QC Matrix: Water						WorkOrder: 0610200				
EPA Method E335.3 / Kelada	xtraction	ction E335.3 / Kelada-01 BatchID: 24201					Spiked Sample ID: 0610200-004D					
Analyte	Sample	Spiked	d MS MSD MS-MSD LCS LCSD LCS-L0				LCS-LCSD	D Acceptance Criteria (%)				
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Cyanide	ND	40	101	103	2.08	98.8	101	2.29	80 - 120	20	90 - 110	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

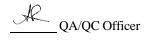
### BATCH 24201 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-001	10/09/06 3:25 PM	10/11/06	10/11/06 1:37 PM	0610200-002	10/09/06 2:20 PM	10/11/06	10/11/06 1:38 PM
0610200-003	10/09/06 1:55 PM	10/11/06	10/11/06 1:39 PM	0610200-004	10/09/06 3:00 PM	10/11/06	10/11/06 1:40 PM
0610200-005	10/09/06 2:40 PM	10/11/06	10/11/06 1:41 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.





"When Ouality Counts"

## **QC SUMMARY REPORT FOR E218.6**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610200

EPA Method E218.6	E218.6 Extraction E218.6						BatchID: 24202				Spiked Sample ID: 0610200-001e			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	SD Acceptance Criteri			%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
Hexachrome	ND	25	105	103	1.88	101	104	2.27	90 - 110	10	90 - 110	10		
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE														

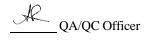
### BATCH 24202 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-001	10/09/06 3:25 PM	10/10/06	10/10/06 3:36 PM	0610200-002	10/09/06 2:20 PM	10/10/06	10/10/06 3:58 PM
0610200-003	10/09/06 1:55 PM	10/10/06	10/10/06 4:19 PM	0610200-004	10/09/06 3:00 PM	10/10/06	10/10/06 4:40 PM
0610200-005	10/09/06 2:40 PM	10/10/06	10/10/06 5:01 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.





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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0610200

EPA Method SW8260B	E	Extraction SW5030B BatchID: 24183							Spiked Sample ID: 0610178-003C				
Analyte	Sample	MS-MSD	IS-MSD LCS LCSD LCS-LCSD			Acceptance Criteria (%)							
Analyto	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
tert-Amyl methyl ether (TAME	ND<500	10	NR	NR	NR	89.9	89.7	0.193	70 - 130	30	70 - 130	30	
Benzene	ND<500	10	NR	NR	NR	113	111	1.39	70 - 130	30	70 - 130	30	
t-Butyl alcohol (TBA)	51000	50	NR	NR	NR	106	105	0.806	70 - 130	30	70 - 130	30	
Chlorobenzene	ND	10	NR	NR	NR	95	95.6	0.676	70 - 130	30	70 - 130	30	
1,2-Dibromoethane (EDB)	ND<500	10	NR	NR	NR	110	111	0.926	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND<500	10	NR	NR	NR	95.5	95.6	0.0300	70 - 130	30	70 - 130	30	
1,1-Dichloroethene	ND<500	10	NR	NR	NR	99.8	95.7	4.26	70 - 130	30	70 - 130	30	
Diisopropyl ether (DIPE)	ND<500	10	NR	NR	NR	103	102	0.909	70 - 130	30	70 - 130	30	
Ethyl tert-butyl ether (ETBE)	ND<500	10	NR	NR	NR	94.1	92.7	1.52	70 - 130	30	70 - 130	30	
Methyl-t-butyl ether (MTBE)	ND<500	10	NR	NR	NR	95.7	94.8	0.932	70 - 130	30	70 - 130	30	
Toluene	ND<500	10	NR	NR	NR	105	105	0	70 - 130	30	70 - 130	30	
Trichloroethene	ND	10	NR	NR	NR	83.2	83.2	0	70 - 130	30	70 - 130	30	
%SS1:	107	10	110	112	1.70	105	103	2.16	70 - 130	30	70 - 130	30	
%SS2:	96	10	101	105	3.22	97	97	0	70 - 130	30	70 - 130	30	
%SS3:	97	10	103	103	0	102	100	1.56	70 - 130	30	70 - 130	30	

NONE

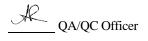
#### BATCH 24183 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-001	10/09/06 3:25 PM	10/16/06	10/16/06 3:49 PM	0610200-002	10/09/06 2:20 PM	10/12/06	10/12/06 6:21 PM
0610200-003	10/09/06 1:55 PM	10/11/06	10/11/06 9:32 PM	0610200-004	10/09/06 3:00 PM	10/12/06	10/12/06 7:06 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.





### **McCampbell Analytical, Inc.**

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### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0610200

EPA Method SW8260B	E	xtraction	SW503	0B		Batchl	D: 24200	s	Spiked Sar	nple ID	: 0610206-0	003B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria (	%)
, mary to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME	ND	10	91.5	77.7	16.3	91.7	88	4.03	70 - 130	30	70 - 130	30
Benzene	ND	10	119	106	11.7	116	116	0	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	115	94.1	19.6	88	90.9	3.25	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	103	88.5	15.0	100	101	1.40	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	107	91.9	15.4	108	108	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	99.2	84.3	16.3	97.1	95.5	1.66	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	82.7	74.4	10.5	99.4	83.7	17.1	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	99.7	86.5	14.1	98.7	97.4	1.31	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	94.3	80.9	15.3	94.4	93.2	1.30	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	95.2	81.3	15.8	95.8	92.9	3.02	70 - 130	30	70 - 130	30
Toluene	ND	10	104	92.5	11.9	113	112	0.884	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	80	72.6	9.67	79	79.1	0.0871	70 - 130	30	70 - 130	30
%SS1:	104	10	106	106	0	106	104	1.56	70 - 130	30	70 - 130	30
%SS2:	96	10	95	98	2.97	106	104	1.34	70 - 130	30	70 - 130	30
%SS3:	100	10	102	101	1.00	100	100	0	70 - 130	30	70 - 130	30

NONE

#### BATCH 24200 SUMMARY

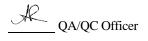
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-005	10/09/06 2:40 PM	10/12/06	)/12/06 12:40 AM				

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.





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610200

EPA Method SW8021B/801	5Cm E	xtraction	SW503	0B	BatchID: 24181 Spiked Sample ID: 0610177-010					)10A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria ('	%)
, mary to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>f</sup>	ND	60	101	101	0	96.6	98.8	2.18	70 - 130	30	70 - 130	30
MTBE	ND	10	95.4	94.1	1.38	96	105	8.61	70 - 130	30	70 - 130	30
Benzene	ND	10	96.5	94.5	2.09	93.5	104	10.9	70 - 130	30	70 - 130	30
Toluene	ND	10	89.1	88.6	0.591	88	98.8	11.6	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	92.2	93.8	1.74	93.1	99.8	6.93	70 - 130	30	70 - 130	30
Xylenes	ND	30	86	85.7	0.388	85.3	90.3	5.69	70 - 130	30	70 - 130	30
%SS:	106	10	99	99	0	101	109	7.51	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 24181 SUMMARY

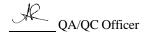
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-001	10/09/06 3:25 PM	10/12/06	10/12/06 4:50 AM	0610200-002	10/09/06 2:20 PM	10/12/06	10/12/06 6:25 AM

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.

 $\pounds$  TPH(btex) = sum of BTEX areas from the FID.





### **McCampbell Analytical, Inc.**

"When Ouality Counts"

### **QC SUMMARY REPORT FOR E200.8**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610200

EPA Method E200.8	E	xtraction	E200.8			Batchl	D: 24194	5	Spiked San	nple ID	: 0610212-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (	%)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	10	96.9	96.1	0.821	92.2	92.5	0.368	75 - 125	20	85 - 115	20
Arsenic	6.6	10	100	102	1.20	94.6	94.4	0.201	75 - 125	20	85 - 115	20
Barium	330	100	115	113	0.296	94.7	94.8	0.0739	75 - 125	20	85 - 115	20
Beryllium	ND	10	87.2	87.3	0.166	97.2	96.4	0.878	75 - 125	20	85 - 115	20
Cadmium	ND	10	94	94.2	0.221	95.3	95.4	0.105	75 - 125	20	85 - 115	20
Chromium	23	10	94.8	97.3	0.770	93.7	92.8	0.986	75 - 125	20	85 - 115	20
Cobalt	11	10	83.2	81.8	0.745	93.6	94.5	0.893	75 - 125	20	85 - 115	20
Copper	18	10	94	98.1	1.46	94.9	94.3	0.624	75 - 125	20	85 - 115	20
Lead	4.2	10	97	96.6	0.287	93	93	0	75 - 125	20	85 - 115	20
Mercury	0.25	0.50	124	121	1.87	105	105	0	75 - 125	20	85 - 115	20
Molybdenum	30	10	103	101	0.428	94.9	93.4	1.56	75 - 125	20	85 - 115	20
Nickel	53	10	88.3	96.6	1.33	95.3	95.4	0.126	75 - 125	20	85 - 115	20
Selenium	27	10	96.7	97.9	0.328	93.1	91.6	1.61	75 - 125	20	85 - 115	20
Silver	ND	10	83.7	83.1	0.719	87.8	87.6	0.308	75 - 125	20	85 - 115	20
Thallium	ND	10	90.1	90.7	0.615	94.8	94.3	0.497	75 - 125	20	85 - 115	20
Vanadium	43	10	104	105	0.150	93.2	93	0.258	75 - 125	20	85 - 115	20
Zinc	28	100	92.3	92.4	0.0831	92.7	93.3	0.624	75 - 125	20	85 - 115	20
%SS:	103	750	106	106	0	97	97	0	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 24194 SUMMARY

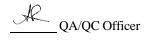
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-001	10/09/06 3:25 PM	10/10/06	10/12/06 1:47 AM	0610200-002	10/09/06 2:20 PM	10/10/06	10/12/06 1:54 AM
0610200-003	10/09/06 1:55 PM	10/10/06	10/12/06 2:02 AM	0610200-004	10/09/06 3:00 PM	10/10/06	10/12/06 2:09 AM
0610200-005	10/09/06 2:40 PM	10/10/06	10/12/06 2:16 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 applicable to this method.





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610200

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	A	cceptan	ce Criteria ('	%)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>f</sup>	ND	60	102	102	0	103	102	0.970	70 - 130	30	70 - 130	30
MTBE	ND	10	99.8	101	0.738	111	105	5.74	70 - 130	30	70 - 130	30
Benzene	ND	10	93.7	92.3	1.52	102	95.1	7.05	70 - 130	30	70 - 130	30
Toluene	ND	10	88.5	86.1	2.73	93.1	87.7	5.95	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	92.6	92.3	0.255	98.7	93.5	5.46	70 - 130	30	70 - 130	30
Xylenes	ND	30	86.3	85.7	0.775	90.3	86	4.91	70 - 130	30	70 - 130	30
%SS:	95	10	98	99	1.12	105	98	6.87	70 - 130	30	70 - 130	30

#### BATCH 24199 SUMMARY

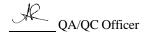
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610200-003	10/09/06 1:55 PM	10/12/06	10/12/06 9:24 PM	0610200-004	10/09/06 3:00 PM	10/12/06	10/12/06 9:56 PM
0610200-005	10/09/06 2:40 PM	10/12/06	10/12/06 8:00 AM				

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.

 $\pounds$  TPH(btex) = sum of BTEX areas from the FID.



McCampbell	Analytical	<u>, Inc.</u>			ell.com	Pittsburg, CA 94565-17 E-mail: main@mccamp 62 Fax: 925-252-9269	bell.com	
Piers Environmental	Cli	ent Proje	ect ID:	2942 San Pablo	Date S	ampled: 10/09/0	)6	
		·		F	Date R	eceived: 10/10/0	)6	
1330 S. Bascom Avenue, Ste. I		ant Car	4				-	
G I GA 05120				8		xtracted: 10/12/0		
San Jose, CA 95128	Cli	ent P.O.:			Date A	ate Analyzed 10/12/06-10/16/06		
	Volatile Organ	ics by P	&T and	d GC/MS (Basic Target I	List)*			
Extraction Method: SW5030B	8	·		nod: SW8260B		Work On	der: 061	0200
Lab ID			, tietii 1, teti	0610200-001B				0200
Client ID				MW1				
Matrix				Water				
		DE	Reporting			G	DE	Reporting
Compound	Concentration *	DF	Limit	Compound		Concentration *	DF	Limit
Acetone	ND	1.0	10	Acrolein (Propenal)		ND	1.0	5.0
Acrylonitrile Benzene	ND ND	1.0	2.0 0.5	tert-Amyl methyl ether (T Bromobenzene	AME)	ND ND	1.0 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	5.0
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 Disulfide		2.1	1.0	0.5
Carbon Tetrachloride	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 2-Chlorotoluene	2.3 ND	1.0	0.5	Chloromethane 4-Chlorotoluene		ND ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloroprop	ane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	June	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-D	CA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene		3.9	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
1,3-Dichloropropane 1,1-Dichloropropene	ND ND	1.0	0.5	2,2-Dichloropropane cis-1,3-Dichloropropene		ND ND	1.0 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 (ETH	BE)	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) Nitrobenzene	ND ND	1.0	0.5	Naphthalene n-Propyl benzene		ND ND	1.0 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		ND	1.0	0.5
1,1,2-Trichloroethane	0.65	1.0	0.5	Trichloroethene		9100	500	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane		ND	1.0	0.5
1,2,4-Trimethylbenzene Vinyl Chloride	ND ND	1.0	0.5	1,3,5-Trimethylbenzene Xvlenes		ND ND	1.0	0.5
				coveries (%)			1.0	. 0.0
%SS1:	1(	)2	Sure Re	%SS2:		92		
%SS3:		8		/0002.		92		
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) sample diluted 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; q) reported in ppm





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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



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### WORK ORDER #: 0609467

Work Order Summary

CLIENT:	Ms. Katie Piers PIERS Environmental Services, Inc. 1330 S. Bascom Avenue, Suite F San Jose, CA 95128	BILL TO:	Ms. Katie Piers PIERS Environmental Services, Inc. 1330 S. Bascom Avenue, Suite F San Jose, CA 95128
PHONE:	408-559-1248	<b>P.O.</b> #	
FAX:	408-536-0294	PROJECT #	2942 San Pablo
DATE RECEIVED:	09/21/2006	CONTACT:	Kyle Vagadori
DATE COMPLETED:	10/04/2006	connen	iljie i ugudoli

			RECEIPT
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.
01A	SV1 d5	Modified TO-15	2.0 psi
02A	SV2 d5	Modified TO-15	3.0 "Hg
02AA	SV2 d5 Duplicate	Modified TO-15	3.0 "Hg
03A	SV3 d5	Modified TO-15	0.0 "Hg
04A	SV4 d5	Modified TO-15	5.0 "Hg
05A	SV5 d5	Modified TO-15	3.5 "Hg
06A	SV6 d5	Modified TO-15	8.0 "Hg
07A	Lab Blank	Modified TO-15	NA
08A	CCV	Modified TO-15	NA
09A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: <u>10/04/06</u>

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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Page 1 of 27

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#### LABORATORY NARRATIVE Modified TO-15 PIERS Environmental Services, Inc. Workorder# 0609467

Six 1 Liter Summa Canister samples were received on September 21, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

### **Receiving Notes**

The Chain of Custody (COC) information for samples SV5 d5 and SV6 d5 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

### **Analytical Notes**

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The reported LCS for each daily batch has been derived from more than one analytical file.

The reported result for 4-Ethyltoluene in samples SV1 d5 and SV6 d5 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.



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- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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### Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

#### Client Sample ID: SV1 d5

Lab ID#: 0609467-01A

Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.89	8.4	2.3	21
Ethanol	3.6	32	6.7	60
Acetone	3.6	67	8.4	160
2-Propanol	3.6	6.0	8.7	15
Carbon Disulfide	0.89	2.8	2.8	8.8
Methylene Chloride	0.89	2.4	3.1	8.4
trans-1,2-Dichloroethene	0.89	22	3.5	89
Hexane	0.89	6.8	3.1	24
2-Butanone (Methyl Ethyl Ketone)	0.89	7.4	2.6	22
cis-1,2-Dichloroethene	0.89	65	3.5	260
Tetrahydrofuran	0.89	2.0	2.6	5.8
Cyclohexane	0.89	6.4	3.1	22
2,2,4-Trimethylpentane	0.89	11	4.2	51
Benzene	0.89	3.0	2.8	9.5
Heptane	0.89	5.2 J	3.6	22 J
Trichloroethene	0.89	140	4.8	760
Toluene	0.89	18	3.4	70
Ethyl Benzene	0.89	2.1	3.9	9.2
m,p-Xylene	0.89	8.8	3.9	38
o-Xylene	0.89	3.0	3.9	13
4-Ethyltoluene	0.89	1.8	4.4	9.0
1,2,4-Trimethylbenzene	0.89	2.7	4.4	13

#### Client Sample ID: SV2 d5

#### Lab ID#: 0609467-02A

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	11	560	29	1400
1,3-Butadiene	11	19	25	42
Ethanol	45	54	84	100
Acetone	45	180	110	440
trans-1,2-Dichloroethene	11	1900	44	7500
Hexane	11	14	39	48
cis-1,2-Dichloroethene	11	2700	44	11000
2,2,4-Trimethylpentane	11	12	52	59
Heptane	11	13 J	46	55 J
Trichloroethene	11	1200	60	6200



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### Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

#### Client Sample ID: SV2 d5

Lab ID#: 0609467-02A				
Toluene	11	35	42	130
m,p-Xylene	11	16	49	68

#### Client Sample ID: SV2 d5 Duplicate

#### Lab ID#: 0609467-02AA

Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	11	560	29	1400
1,3-Butadiene	11	15	25	34
Ethanol	45	61	84	120
Acetone	45	180	110	420
trans-1,2-Dichloroethene	11	1900	44	7400
Hexane	11	12	39	44
cis-1,2-Dichloroethene	11	2700	44	11000
2,2,4-Trimethylpentane	11	12	52	57
Heptane	11	12 J	46	49 J
Trichloroethene	11	1200	60	6200
Toluene	11	32	42	120
m,p-Xylene	11	13	49	58

#### Client Sample ID: SV3 d5

#### Lab ID#: 0609467-03A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Vinyl Chloride	50	3000	130	7700
1,1-Dichloroethene	50	68	200	270
trans-1,2-Dichloroethene	50	1100	200	4300
cis-1,2-Dichloroethene	50	11000	200	44000
Trichloroethene	50	2100	270	11000

### Client Sample ID: SV4 d5

#### Lab ID#: 0609467-04A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Vinyl Chloride	16	1300	41	3300
1,1-Dichloroethene	16	28	64	110
Acetone	65	92	150	220



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

#### Client Sample ID: SV4 d5

Lab ID#: 0609467-04A				
trans-1,2-Dichloroethene	16	1200	64	4600
cis-1,2-Dichloroethene	16	5000	64	20000
Trichloroethene	16	3000	87	16000
Toluene	16	21	61	80

#### Client Sample ID: SV5 d5

#### Lab ID#: 0609467-05A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Vinyl Chloride	46	730	120	1900
trans-1,2-Dichloroethene	46	1800	180	7400
cis-1,2-Dichloroethene	46	200	180	800
Trichloroethene	46	200	250	1100

#### Client Sample ID: SV6 d5

#### Lab ID#: 0609467-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.4	78	3.5	200
Ethanol	5.5	21	10	40
Acetone	5.5	110	13	260
Carbon Disulfide	1.4	2.0	4.3	6.1
Methylene Chloride	1.4	1.8	4.8	6.4
trans-1,2-Dichloroethene	1.4	310	5.5	1200
Hexane	1.4	4.6	4.9	16
cis-1,2-Dichloroethene	1.4	440	5.5	1800
Tetrahydrofuran	1.4	3.6	4.1	10
Cyclohexane	1.4	5.7	4.8	19
2,2,4-Trimethylpentane	1.4	9.5	6.4	44
Benzene	1.4	2.2	4.4	7.0
Heptane	1.4	4.6 J	5.6	19 J
Trichloroethene	1.4	250	7.4	1400
4-Methyl-2-pentanone	1.4	2.2	5.6	8.9
Toluene	1.4	16	5.2	61
Ethyl Benzene	1.4	3.7	6.0	16
m,p-Xylene	1.4	14	6.0	63
o-Xylene	1.4	5.7	6.0	25
Propylbenzene	1.4	2.5	6.8	12



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

#### Client Sample ID: SV6 d5

Lab ID#: 0609467-06A				
4-Ethyltoluene	1.4	8.9	6.8	44
1,3,5-Trimethylbenzene	1.4	6.0	6.8	29
1,2,4-Trimethylbenzene	1.4	18	6.8	86



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV1 d5

Lab ID#: 0609467-01A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092720 1.78		Date of Collection: Date of Analysis: 9/	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.89	Not Detected	4.4	Not Detected
Freon 114	0.89	Not Detected	6.2	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
Vinyl Chloride	0.89	8.4	2.3	21
1,3-Butadiene	0.89	Not Detected	2.0	Not Detected
Bromomethane	0.89	Not Detected	3.4	Not Detected
Chloroethane	0.89	Not Detected	2.3	Not Detected
Freon 11	0.89	Not Detected	5.0	Not Detected
Ethanol	3.6	32	6.7	60
Freon 113	0.89	Not Detected	6.8	Not Detected
1,1-Dichloroethene	0.89	Not Detected	3.5	Not Detected
Acetone	3.6	67	8.4	160
2-Propanol	3.6	6.0	8.7	15
Carbon Disulfide	0.89	2.8	2.8	8.8
3-Chloropropene	3.6	Not Detected	11	Not Detected
Methylene Chloride	0.89	2.4	3.1	8.4
Methyl tert-butyl ether	0.89	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.89	22	3.5	89
Hexane	0.89	6.8	3.1	24
1,1-Dichloroethane	0.89	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.89	7.4	2.6	22
cis-1,2-Dichloroethene	0.89	65	3.5	260
Tetrahydrofuran	0.89	2.0	2.6	5.8
Chloroform	0.89	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.89	Not Detected	4.8	Not Detected
Cyclohexane	0.89	6.4	3.1	22
Carbon Tetrachloride	0.89	Not Detected	5.6	Not Detected
2,2,4-Trimethylpentane	0.89	11	4.2	51
Benzene	0.89	3.0	2.8	9.5
1,2-Dichloroethane	0.89	Not Detected	3.6	Not Detected
Heptane	0.89	5.2 J	3.6	22 J
Trichloroethene	0.89	140	4.8	760
1,2-Dichloropropane	0.89	Not Detected	4.1	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
Bromodichloromethane	0.89	Not Detected	6.0	Not Detected
cis-1,3-Dichloropropene	0.89	Not Detected	4.0	Not Detected
4-Methyl-2-pentanone	0.89	Not Detected	3.6	Not Detected
Toluene	0.89	18	3.4	70
trans-1,3-Dichloropropene	0.89	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.89	Not Detected	4.8	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV1 d5

Lab ID#: 0609467-01A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound (ppbv) (p	mountRpt. Liopbv)(uG/m)Detected6.0Detected14Detected7.0	n3) (uG/m3) Not Detected
Tetrachloroethene 0.89 Not	Detected 14	
		Not Detected
2-Hexanone 3.6 Not	Detected 70	
Dibromochloromethane 0.89 Not	Detected 7.6	Not Detected
1,2-Dibromoethane (EDB) 0.89 Not	Detected 6.8	Not Detected
Chlorobenzene 0.89 Not	Detected 4.1	Not Detected
Ethyl Benzene 0.89	2.1 3.9	9.2
m,p-Xylene 0.89	8.8 3.9	38
o-Xylene 0.89	3.0 3.9	13
Styrene 0.89 Not	Detected 3.8	Not Detected
Bromoform 0.89 Not	Detected 9.2	Not Detected
Cumene 0.89 Not	Detected 4.4	Not Detected
1,1,2,2-Tetrachloroethane 0.89 Not	Detected 6.1	Not Detected
Propylbenzene 0.89 Not	Detected 4.4	Not Detected
4-Ethyltoluene 0.89	1.8 4.4	9.0
1,3,5-Trimethylbenzene 0.89 Not	Detected 4.4	Not Detected
1,2,4-Trimethylbenzene 0.89	2.7 4.4	13
1,3-Dichlorobenzene 0.89 Not	Detected 5.4	Not Detected
1,4-Dichlorobenzene 0.89 Not	Detected 5.4	Not Detected
alpha-Chlorotoluene 0.89 Not	Detected 4.6	Not Detected
1,2-Dichlorobenzene 0.89 Not	Detected 5.4	Not Detected
1,2,4-Trichlorobenzene 3.6 Not	Detected 26	Not Detected
Hexachlorobutadiene 3.6 Not De	etected U J 38	Not Detected U

J = Estimated value due to bias in the CCV.

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV2 d5

Lab ID#: 0609467-02A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092721 22.4		Date of Collection: Date of Analysis: 9	
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	11	Not Detected	55	Not Detected
Freon 114	11	Not Detected	78	Not Detected
Chloromethane	45	Not Detected	92	Not Detected
Vinyl Chloride	11	560	29	1400
1,3-Butadiene	11	19	25	42
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	11	Not Detected	30	Not Detected
Freon 11	11	Not Detected	63	Not Detected
Ethanol	45	54	84	100
Freon 113	11	Not Detected	86	Not Detected
1,1-Dichloroethene	11	Not Detected	44	Not Detected
Acetone	45	180	110	440
2-Propanol	45	Not Detected	110	Not Detected
Carbon Disulfide	11	Not Detected	35	Not Detected
3-Chloropropene	45	Not Detected	140	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	11	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	11	1900	44	7500
Hexane	11	14	39	48
1,1-Dichloroethane	11	Not Detected	45	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	33	Not Detected
cis-1,2-Dichloroethene	11	2700	44	11000
Tetrahydrofuran	11	Not Detected	33	Not Detected
Chloroform	11	Not Detected	55	Not Detected
1,1,1-Trichloroethane	11	Not Detected	61	Not Detected
Cyclohexane	11	Not Detected	38	Not Detected
Carbon Tetrachloride	11	Not Detected	70	Not Detected
2,2,4-Trimethylpentane	11	12	52	59
Benzene	11	Not Detected	36	Not Detected
1.2-Dichloroethane	11	Not Detected	45	Not Detected
Heptane	11	13 J	46	55 J
Trichloroethene	11	1200	60	6200
1,2-Dichloropropane	11	Not Detected	52	Not Detected
1,4-Dioxane	45	Not Detected	160	Not Detected
Bromodichloromethane	11	Not Detected	75	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	51	Not Detected
4-Methyl-2-pentanone	11	Not Detected	46	Not Detected
Toluene	11	35	40	130
trans-1,3-Dichloropropene	11	Not Detected	51	Not Detected
1,1,2-Trichloroethane	11	Not Detected	61	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV2 d5

Lab ID#: 0609467-02A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092721 22.4	Date of Collection: 9/20/06 Date of Analysis: 9/28/06 03:5		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	11	Not Detected	76	Not Detected
2-Hexanone	45	Not Detected	180	Not Detected
Dibromochloromethane	11	Not Detected	95	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	86	Not Detected
Chlorobenzene	11	Not Detected	52	Not Detected
Ethyl Benzene	11	Not Detected	49	Not Detected
m,p-Xylene	11	16	49	68
o-Xylene	11	Not Detected	49	Not Detected
Styrene	11	Not Detected	48	Not Detected
Bromoform	11	Not Detected	120	Not Detected
Cumene	11	Not Detected	55	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	77	Not Detected
Propylbenzene	11	Not Detected	55	Not Detected
4-Ethyltoluene	11	Not Detected	55	Not Detected
1,3,5-Trimethylbenzene	11	Not Detected	55	Not Detected
1,2,4-Trimethylbenzene	11	Not Detected	55	Not Detected
1,3-Dichlorobenzene	11	Not Detected	67	Not Detected
1,4-Dichlorobenzene	11	Not Detected	67	Not Detected
alpha-Chlorotoluene	11	Not Detected	58	Not Detected
1,2-Dichlorobenzene	11	Not Detected	67	Not Detected
1,2,4-Trichlorobenzene	45	Not Detected	330	Not Detected
Hexachlorobutadiene	45	Not Detected U J	480	Not Detected U

J = Estimated value due to bias in the CCV.

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV2 d5 Duplicate

#### Lab ID#: 0609467-02AA

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092722 22.4		Date of Collection: Date of Analysis: 9/	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	11	Not Detected	55	Not Detected
Freon 114	11	Not Detected	78	Not Detected
Chloromethane	45	Not Detected	92	Not Detected
Vinyl Chloride	11	560	29	1400
1,3-Butadiene	11	15	25	34
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	11	Not Detected	30	Not Detected
Freon 11	11	Not Detected	63	Not Detected
Ethanol	45	61	84	120
Freon 113	11	Not Detected	86	Not Detected
1,1-Dichloroethene	11	Not Detected	44	Not Detected
Acetone	45	180	110	420
2-Propanol	45	Not Detected	110	Not Detected
Carbon Disulfide	11	Not Detected	35	Not Detected
3-Chloropropene	45	Not Detected	140	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	11	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	11	1900	44	7400
Hexane	11	12	39	44
1,1-Dichloroethane	11	Not Detected	45	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	33	Not Detected
cis-1,2-Dichloroethene	11	2700	44	11000
Tetrahydrofuran	11	Not Detected	33	Not Detected
Chloroform	11	Not Detected	55	Not Detected
1,1,1-Trichloroethane	11	Not Detected	61	Not Detected
Cyclohexane	11	Not Detected	38	Not Detected
Carbon Tetrachloride	11	Not Detected	70	Not Detected
2,2,4-Trimethylpentane	11	12	52	57
Benzene	11	Not Detected	36	Not Detected
1,2-Dichloroethane	11	Not Detected	45	Not Detected
Heptane	11	12 J	46	49 J
Trichloroethene	11	1200	60	6200
1,2-Dichloropropane	11	Not Detected	52	Not Detected
1,4-Dioxane	45	Not Detected	160	Not Detected
Bromodichloromethane	11	Not Detected	75	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	51	Not Detected
	11	Not Detected	46	Not Detected
4-Methyl-2-pentanone Toluene	11	32	40 42	120
		32 Not Detected		
trans-1,3-Dichloropropene	11		51	Not Detected
1,1,2-Trichloroethane	11	Not Detected	61	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV2 d5 Duplicate

#### Lab ID#: 0609467-02AA

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092722 22.4	Date of Collection: 9/20/06 Date of Analysis: 9/28/06 04:2		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	11	Not Detected	76	Not Detected
2-Hexanone	45	Not Detected	180	Not Detected
Dibromochloromethane	11	Not Detected	95	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	86	Not Detected
Chlorobenzene	11	Not Detected	52	Not Detected
Ethyl Benzene	11	Not Detected	49	Not Detected
m,p-Xylene	11	13	49	58
o-Xylene	11	Not Detected	49	Not Detected
Styrene	11	Not Detected	48	Not Detected
Bromoform	11	Not Detected	120	Not Detected
Cumene	11	Not Detected	55	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	77	Not Detected
Propylbenzene	11	Not Detected	55	Not Detected
4-Ethyltoluene	11	Not Detected	55	Not Detected
1,3,5-Trimethylbenzene	11	Not Detected	55	Not Detected
1,2,4-Trimethylbenzene	11	Not Detected	55	Not Detected
1,3-Dichlorobenzene	11	Not Detected	67	Not Detected
1,4-Dichlorobenzene	11	Not Detected	67	Not Detected
alpha-Chlorotoluene	11	Not Detected	58	Not Detected
1,2-Dichlorobenzene	11	Not Detected	67	Not Detected
1,2,4-Trichlorobenzene	45	Not Detected	330	Not Detected
Hexachlorobutadiene	45	Not Detected U J	480	Not Detected U

J = Estimated value due to bias in the CCV.

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	112	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV3 d5

Lab ID#: 0609467-03A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092723 101		Date of Collection: Date of Analysis:	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	50	Not Detected	250	Not Detected
Freon 114	50	Not Detected	350	Not Detected
Chloromethane	200	Not Detected	420	Not Detected
Vinyl Chloride	50	3000	130	7700
1,3-Butadiene	50	Not Detected	110	Not Detected
Bromomethane	50	Not Detected	200	Not Detected
Chloroethane	50	Not Detected	130	Not Detected
Freon 11	50	Not Detected	280	Not Detected
Ethanol	200	Not Detected	380	Not Detected
Freon 113	50	Not Detected	390	Not Detected
1,1-Dichloroethene	50	68	200	270
Acetone	200	Not Detected	480	Not Detected
2-Propanol	200	Not Detected	500	Not Detected
Carbon Disulfide	50	Not Detected	160	Not Detected
3-Chloropropene	200	Not Detected	630	Not Detected
Methylene Chloride	50	Not Detected	180	Not Detected
Methyl tert-butyl ether	50	Not Detected	180	Not Detected
trans-1,2-Dichloroethene	50	1100	200	4300
Hexane	50	Not Detected	180	Not Detected
1,1-Dichloroethane	50	Not Detected	200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	50	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	50	11000	200	44000
Tetrahydrofuran	50	Not Detected	150	Not Detected
Chloroform	50	Not Detected	250	Not Detected
1,1,1-Trichloroethane	50	Not Detected	280	Not Detected
Cyclohexane	50	Not Detected	170	Not Detected
Carbon Tetrachloride	50	Not Detected	320	Not Detected
2,2,4-Trimethylpentane	50	Not Detected	240	Not Detected
Benzene	50	Not Detected	160	Not Detected
1.2-Dichloroethane	50	Not Detected	200	Not Detected
Heptane	50	Not Detected U J	210	Not Detected U J
Trichloroethene	50	2100	270	11000
1,2-Dichloropropane	50	Not Detected	230	Not Detected
1,4-Dioxane	200	Not Detected	730	Not Detected
Bromodichloromethane	50	Not Detected	340	Not Detected
cis-1,3-Dichloropropene	50	Not Detected	230	Not Detected
4-Methyl-2-pentanone	50	Not Detected	210	Not Detected
Toluene	50	Not Detected	190	Not Detected
trans-1,3-Dichloropropene	50	Not Detected	230	Not Detected
1,1,2-Trichloroethane	50	Not Detected	280	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV3 d5

Lab ID#: 0609467-03A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092723 101	Date of Collection: 9/20/06 Date of Analysis: 9/28/06 05:05 A		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	50	Not Detected	340	Not Detected
2-Hexanone	200	Not Detected	830	Not Detected
Dibromochloromethane	50	Not Detected	430	Not Detected
1,2-Dibromoethane (EDB)	50	Not Detected	390	Not Detected
Chlorobenzene	50	Not Detected	230	Not Detected
Ethyl Benzene	50	Not Detected	220	Not Detected
m,p-Xylene	50	Not Detected	220	Not Detected
o-Xylene	50	Not Detected	220	Not Detected
Styrene	50	Not Detected	220	Not Detected
Bromoform	50	Not Detected	520	Not Detected
Cumene	50	Not Detected	250	Not Detected
1,1,2,2-Tetrachloroethane	50	Not Detected	350	Not Detected
Propylbenzene	50	Not Detected	250	Not Detected
4-Ethyltoluene	50	Not Detected	250	Not Detected
1,3,5-Trimethylbenzene	50	Not Detected	250	Not Detected
1,2,4-Trimethylbenzene	50	Not Detected	250	Not Detected
1,3-Dichlorobenzene	50	Not Detected	300	Not Detected
1,4-Dichlorobenzene	50	Not Detected	300	Not Detected
alpha-Chlorotoluene	50	Not Detected	260	Not Detected
1,2-Dichlorobenzene	50	Not Detected	300	Not Detected
1,2,4-Trichlorobenzene	200	Not Detected	1500	Not Detected
Hexachlorobutadiene	200	Not Detected U J	2200	Not Detected U

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV4 d5

Lab ID#: 0609467-04A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092729 32.3		Date of Collection: Date of Analysis:	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	16	Not Detected	80	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	65	Not Detected	130	Not Detected
Vinyl Chloride	16	1300	41	3300
1,3-Butadiene	16	Not Detected	36	Not Detected
Bromomethane	16	Not Detected	63	Not Detected
Chloroethane	16	Not Detected	43	Not Detected
Freon 11	16	Not Detected	91	Not Detected
Ethanol	65	Not Detected	120	Not Detected
Freon 113	16	Not Detected	120	Not Detected
1,1-Dichloroethene	16	28	64	110
Acetone	65	92	150	220
2-Propanol	65	Not Detected	160	Not Detected
Carbon Disulfide	16	Not Detected	50	Not Detected
3-Chloropropene	65	Not Detected	200	Not Detected
Methylene Chloride	16	Not Detected	56	Not Detected
Methyl tert-butyl ether	16	Not Detected	58	Not Detected
trans-1,2-Dichloroethene	16	1200	64	4600
Hexane	16	Not Detected	57	Not Detected
1,1-Dichloroethane	16	Not Detected	65	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	Not Detected	48	Not Detected
cis-1,2-Dichloroethene	16	5000	64	20000
Tetrahydrofuran	16	Not Detected	48	Not Detected
Chloroform	16	Not Detected	79	Not Detected
1,1,1-Trichloroethane	16	Not Detected	88	Not Detected
Cyclohexane	16	Not Detected	56	Not Detected
Carbon Tetrachloride	16	Not Detected	100	Not Detected
2,2,4-Trimethylpentane	16	Not Detected	75	Not Detected
Benzene	16	Not Detected	52	Not Detected
1.2-Dichloroethane	16	Not Detected	65	Not Detected
Heptane	16	Not Detected U J	66	Not Detected U J
Trichloroethene	16	3000	87	16000
1,2-Dichloropropane	16	Not Detected	75	Not Detected
1,4-Dioxane	65	Not Detected	230	Not Detected
Bromodichloromethane	16	Not Detected	110	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	73	Not Detected
4-Methyl-2-pentanone	16	Not Detected	66	Not Detected
Toluene	16	21	61	80
trans-1,3-Dichloropropene	16	Not Detected	73	Not Detected
1,1,2-Trichloroethane	16	Not Detected	88	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV4 d5

Lab ID#: 0609467-04A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092729 32.3	Date of Collection: 9/20/06 Date of Analysis: 9/28/06 09:03		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	16	Not Detected	110	Not Detected
2-Hexanone	65	Not Detected	260	Not Detected
Dibromochloromethane	16	Not Detected	140	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	Not Detected	74	Not Detected
Ethyl Benzene	16	Not Detected	70	Not Detected
m,p-Xylene	16	Not Detected	70	Not Detected
o-Xylene	16	Not Detected	70	Not Detected
Styrene	16	Not Detected	69	Not Detected
Bromoform	16	Not Detected	170	Not Detected
Cumene	16	Not Detected	79	Not Detected
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	Not Detected	79	Not Detected
4-Ethyltoluene	16	Not Detected	79	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	79	Not Detected
1,2,4-Trimethylbenzene	16	Not Detected	79	Not Detected
1,3-Dichlorobenzene	16	Not Detected	97	Not Detected
1,4-Dichlorobenzene	16	Not Detected	97	Not Detected
alpha-Chlorotoluene	16	Not Detected	84	Not Detected
1,2-Dichlorobenzene	16	Not Detected	97	Not Detected
1,2,4-Trichlorobenzene	65	Not Detected	480	Not Detected
Hexachlorobutadiene	65	Not Detected U J	690	Not Detected U

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	117	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV5 d5

Lab ID#: 0609467-05A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092730 91.6		Date of Collection: Date of Analysis:	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	46	Not Detected	230	Not Detected
Freon 114	46	Not Detected	320	Not Detected
Chloromethane	180	Not Detected	380	Not Detected
Vinyl Chloride	46	730	120	1900
1,3-Butadiene	46	Not Detected	100	Not Detected
Bromomethane	46	Not Detected	180	Not Detected
Chloroethane	46	Not Detected	120	Not Detected
Freon 11	46	Not Detected	260	Not Detected
Ethanol	180	Not Detected	340	Not Detected
Freon 113	46	Not Detected	350	Not Detected
1,1-Dichloroethene	46	Not Detected	180	Not Detected
Acetone	180	Not Detected	440	Not Detected
2-Propanol	180	Not Detected	450	Not Detected
Carbon Disulfide	46	Not Detected	140	Not Detected
3-Chloropropene	180	Not Detected	570	Not Detected
Methylene Chloride	46	Not Detected	160	Not Detected
Methyl tert-butyl ether	46	Not Detected	160	Not Detected
trans-1,2-Dichloroethene	46	1800	180	7400
Hexane	46	Not Detected	160	Not Detected
1,1-Dichloroethane	46	Not Detected	180	Not Detected
2-Butanone (Methyl Ethyl Ketone)	46	Not Detected	140	Not Detected
cis-1,2-Dichloroethene	46	200	180	800
Tetrahydrofuran	46	Not Detected	140	Not Detected
Chloroform	46	Not Detected	220	Not Detected
1,1,1-Trichloroethane	46	Not Detected	250	Not Detected
Cyclohexane	46	Not Detected	160	Not Detected
Carbon Tetrachloride	46	Not Detected	290	Not Detected
2,2,4-Trimethylpentane	46	Not Detected	210	Not Detected
Benzene	46	Not Detected	150	Not Detected
1,2-Dichloroethane	46	Not Detected	180	Not Detected
Heptane	46	Not Detected U J	190	Not Detected U J
Trichloroethene	46	200	250	1100
1,2-Dichloropropane	46	Not Detected	210	Not Detected
1,4-Dioxane	180	Not Detected	660	Not Detected
Bromodichloromethane	46	Not Detected	310	Not Detected
cis-1,3-Dichloropropene	46	Not Detected	210	Not Detected
4-Methyl-2-pentanone	46	Not Detected	190	Not Detected
Toluene	46	Not Detected	170	Not Detected
trans-1,3-Dichloropropene	46	Not Detected	210	Not Detected
1,1,2-Trichloroethane	46	Not Detected	250	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV5 d5

Lab ID#: 0609467-05A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092730 91.6		Date of Collection: Date of Analysis:	
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	46	Not Detected	310	Not Detected
2-Hexanone	180	Not Detected	750	Not Detected
Dibromochloromethane	46	Not Detected	390	Not Detected
1,2-Dibromoethane (EDB)	46	Not Detected	350	Not Detected
Chlorobenzene	46	Not Detected	210	Not Detected
Ethyl Benzene	46	Not Detected	200	Not Detected
m,p-Xylene	46	Not Detected	200	Not Detected
o-Xylene	46	Not Detected	200	Not Detected
Styrene	46	Not Detected	200	Not Detected
Bromoform	46	Not Detected	470	Not Detected
Cumene	46	Not Detected	220	Not Detected
1,1,2,2-Tetrachloroethane	46	Not Detected	310	Not Detected
Propylbenzene	46	Not Detected	220	Not Detected
4-Ethyltoluene	46	Not Detected	220	Not Detected
1,3,5-Trimethylbenzene	46	Not Detected	220	Not Detected
1,2,4-Trimethylbenzene	46	Not Detected	220	Not Detected
1,3-Dichlorobenzene	46	Not Detected	280	Not Detected
1,4-Dichlorobenzene	46	Not Detected	280	Not Detected
alpha-Chlorotoluene	46	Not Detected	240	Not Detected
1,2-Dichlorobenzene	46	Not Detected	280	Not Detected
1,2,4-Trichlorobenzene	180	Not Detected	1400	Not Detected
Hexachlorobutadiene	180	Not Detected U J	2000	Not Detected U

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV6 d5

Lab ID#: 0609467-06A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092726 2.76		Date of Collection: Date of Analysis: 9/	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	1.4	Not Detected	6.8	Not Detected
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	78	3.5	200
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	1.4	Not Detected	3.6	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	21	10	40
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	110	13	260
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	1.4	2.0	4.3	6.1
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	1.8	4.8	6.4
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	310	5.5	1200
Hexane	1.4	4.6	4.9	16
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.1	Not Detected
cis-1,2-Dichloroethene	1.4	440	5.5	1800
Tetrahydrofuran	1.4	3.6	4.1	10
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	5.7	4.8	19
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	9.5	6.4	44
Benzene	1.4	2.2	4.4	7.0
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	4.6 J	5.6	19 J
Trichloroethene	1.4	250	7.4	1400
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	2.2	5.6	8.9
Toluene	1.4	16	5.2	61
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV6 d5

Lab ID#: 0609467-06A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092726 2.76		Date of Collection: Date of Analysis:	
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	3.7	6.0	16
m,p-Xylene	1.4	14	6.0	63
o-Xylene	1.4	5.7	6.0	25
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	2.5	6.8	12
4-Ethyltoluene	1.4	8.9	6.8	44
1,3,5-Trimethylbenzene	1.4	6.0	6.8	29
1,2,4-Trimethylbenzene	1.4	18	6.8	86
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected U J	59	Not Detected U

J = Estimated value due to bias in the CCV.

UJ = Non-detected compound associated with low bias in the CCV

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	118	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank** 

Lab ID#: 0609467-07A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092709 1.00		Date of Collection: Date of Analysis:	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected U J	2.0	Not Detected U J
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank** 

#### Lab ID#: 0609467-07A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092709 1.00		Date of Collection: Date of Analysis:	
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected U J	21	Not Detected U

UJ = Non-detected compound associated with low bias in the CCV

#### **Container Type: NA - Not Applicable**

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	100	70-130	
4-Bromofluorobenzene	113	70-130	



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV** 

Lab ID#: 0609467-08A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092707 1.00	Date of Collection: NA Date of Analysis: 9/27/06 04:12 PM
Compound		%Recovery
Freon 12		79
Freon 114		80
Chloromethane		109
Vinyl Chloride		85
1,3-Butadiene		91
Bromomethane		77
Chloroethane		90
Freon 11		85
Ethanol		104
Freon 113		86
1,1-Dichloroethene		87
Acetone		91
2-Propanol		102
Carbon Disulfide		79
3-Chloropropene		85
Methylene Chloride		104
Methyl tert-butyl ether		87
trans-1,2-Dichloroethene		76
Hexane		90
1,1-Dichloroethane		83
2-Butanone (Methyl Ethyl Ketone)		76
cis-1,2-Dichloroethene		84
Tetrahydrofuran		91
Chloroform		74
1,1,1-Trichloroethane		85
Cyclohexane		74
Carbon Tetrachloride		90
2,2,4-Trimethylpentane		87
Benzene		74
1,2-Dichloroethane		96
Heptane		68 Q
Trichloroethene		81
1,2-Dichloropropane		82
1,4-Dioxane		75
Bromodichloromethane		84
cis-1,3-Dichloropropene		80
4-Methyl-2-pentanone		83
Toluene		81
trans-1,3-Dichloropropene		79
1,1,2-Trichloroethane		77



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV** 

Lab ID#: 0609467-08A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092707 1.00	Date of Collection: NA Date of Analysis: 9/27/06 04:12 PM
Compound		%Recovery
Tetrachloroethene		91
2-Hexanone		80
Dibromochloromethane		84
1,2-Dibromoethane (EDB)		80
Chlorobenzene		74
Ethyl Benzene		79
m,p-Xylene		73
o-Xylene		77
Styrene		73
Bromoform		95
Cumene		76
1,1,2,2-Tetrachloroethane		81
Propylbenzene		84
4-Ethyltoluene		80
1,3,5-Trimethylbenzene		72
1,2,4-Trimethylbenzene		82
1,3-Dichlorobenzene		75
1,4-Dichlorobenzene		91
alpha-Chlorotoluene		83
1,2-Dichlorobenzene		71
1,2,4-Trichlorobenzene		82
Hexachlorobutadiene		69 Q

#### Q = Exceeds Quality Control limits. Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	118	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS** 

Lab ID#: 0609467-09A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 8092703	Date of Collection: NA
Dil. Factor: 1.00	Date of Analysis: 9/27/06 12:25 PM
Compound	%Recovery
Freon 12	96
Freon 114	98
Chloromethane	134 Q
Vinyl Chloride	104
1,3-Butadiene	125
Bromomethane	98
Chloroethane	108
Freon 11	103
Ethanol	122
Freon 113	105
1,1-Dichloroethene	102
Acetone	108
2-Propanol	111
Carbon Disulfide	99
3-Chloropropene	94
Methylene Chloride	122
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	91
Hexane	103
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	99
Tetrahydrofuran	98
Chloroform	84
1,1,1-Trichloroethane	99
Cyclohexane	80
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	92
Benzene	90
1,2-Dichloroethane	110
Heptane	74
Trichloroethene	94
1,2-Dichloropropane	93
1,4-Dioxane	84
Bromodichloromethane	85
cis-1,3-Dichloropropene	
4-Methyl-2-pentanone	86
Toluene	94
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	96



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS** 

Lab ID#: 0609467-09A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8092703 1.00	Date of Collection: NA Date of Analysis: 9/27/06 12:25 PM				
Compound		%Recovery				
Tetrachloroethene		114				
2-Hexanone		87				
Dibromochloromethane		83				
1,2-Dibromoethane (EDB)		97				
Chlorobenzene		93				
Ethyl Benzene		101				
m,p-Xylene		88				
o-Xylene		81				
Styrene		85				
Bromoform		71				
Cumene		76				
1,1,2,2-Tetrachloroethane		100				
Propylbenzene		85				
4-Ethyltoluene		83				
1,3,5-Trimethylbenzene		73				
1,2,4-Trimethylbenzene		69 Q				
1,3-Dichlorobenzene		95				
1,4-Dichlorobenzene		112				
alpha-Chlorotoluene		84				
1,2-Dichlorobenzene		88				
1,2,4-Trichlorobenzene		103				
Hexachlorobutadiene		86				

#### Q = Exceeds Quality Control limits. Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	119	70-130



CHAIN-OF-CUSTODY RECORD

#### Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance 180 BLUE RAVINE ROAD, SUITE B with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the octlection, handling or (916) 985-1000 FAX (916) 985-1020

FOLSOM, CA 95630-4719

Page \_\_\_\_ of \_\_\_\_

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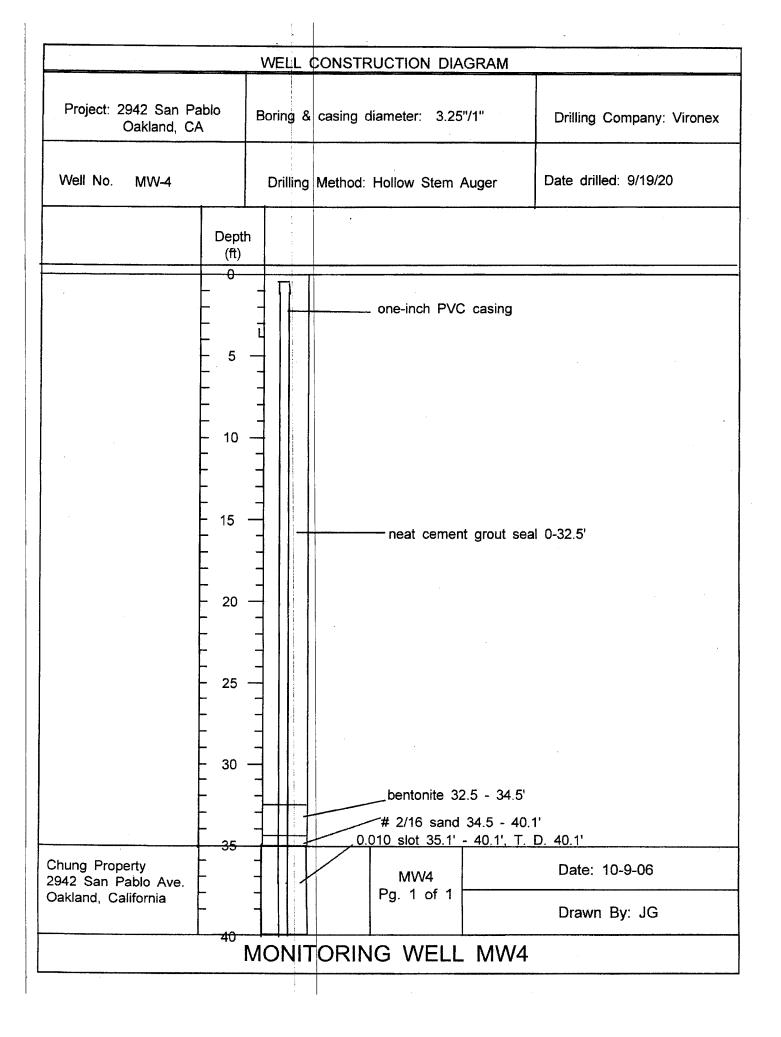
defend, and indemnity Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, hand ing, or shipping of samples, D.O.T. Hotline (800) 467-4829,

Contact Per	301 Joel Greger	Project info:	Project info:			Date: 1/26/06			ŀ			
Company Address <u>/</u>	PIERS ENVIRONMENT	P.O. #										
Phone 57	10 5935382 Fax.	Project #		🗆 Rush		Pressi	urization C	ัสร				
	W: (Signature) goel	Project Name 2.99	12 Santablo	specily	—	£ · . 🖌	(N <sub>2</sub> ) He					
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Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time		ses Requested	ini i	lial	Final	Receipt	Fina.	
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02A	SV2 15	317 <u>72</u>	<u>Ĺ</u>	9:50 Am	<u> </u>	11				3.644	- H	
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Lab .	Shipper Name	∖ir Bi∥	#:::::::::::::::::::::::::::::::::::::	Temp (°	C) Condition	on Customer S	eals Intact?		Worl	COrder #		ĺ
Use Only	Fold \$57359	66 1	BD	NA	Good	Yes No	None	>	06	0946	7	
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### APPENDIX C BORING LOGS AND WELL CONSTRUCTION DIAGRAM

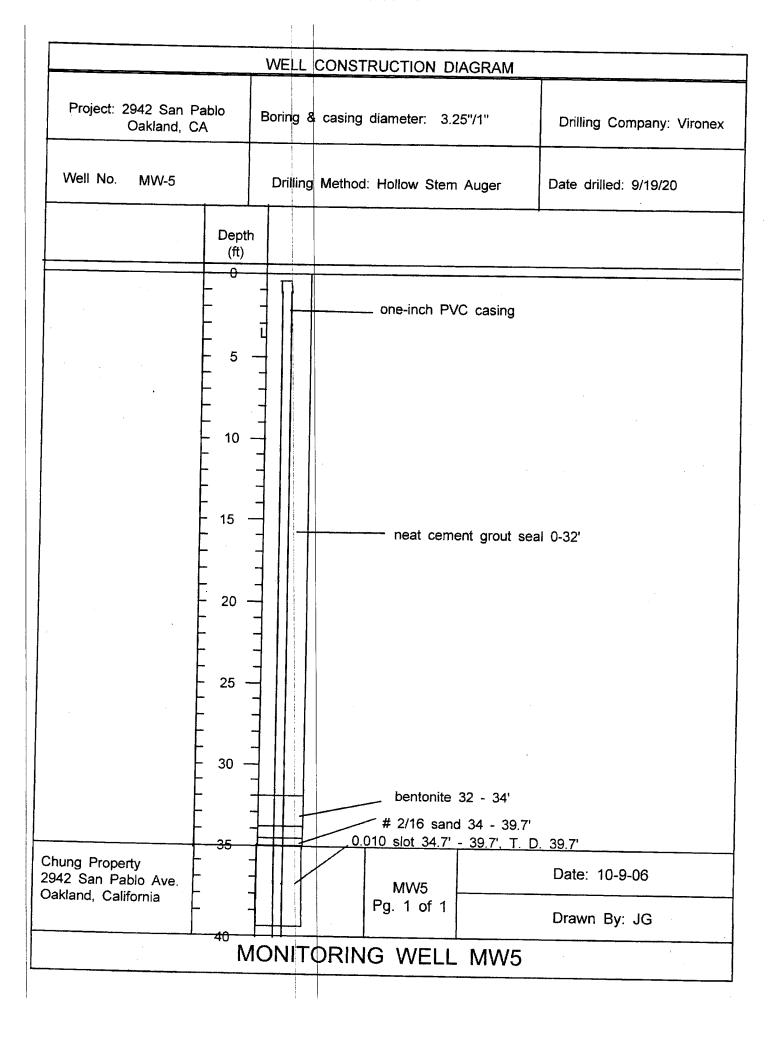
			ļ	B	ORING	LOG		
Project No.			В	oring d	iameter:		2"	Logged By: Joel Greger PIERS
Project:2942	San Pablo		E	Elevatic	n:			Date drilled: 9/19/06
Boring No. M	W4		C	Drilling	Method:	GeoPro	obe	Drilling Company: Vironex
Sample intervals	G.W. Sam level Dep (ft)	th St		raphy CS)				Description -
					@ 0' - 2	' - 6" of	concrete over	sand and gravel base.
	- 5 - 5 - 10				@ 3.5-4' Weathere @ 4' - 0 @ 5.7' - Gravels a @ 5 - 10 during rer	- Olive of gravel rangish- Olive cla v. moist, ire subro l' Poor r moval fro	clayey silt with s also in part to brown clayey si ayey silt with g localley wet a bunded, general ecovery due to bom core barrel.	
MW4 d 13.5'	- - - 15 -				@ 12.5' - increasing @ 14' - (	Olive c gravels Olive cla I, predor	@ 13.2', estin yey silt with gra ninantly <1/4" o	bove (ML). few gravels, v. moist to wet, hard, nated at up to 15%. avel (ML), as above, gravels highly diameter, very moist to wet, hard.
MW4 d 17.5'	- - - 20				@ 18-23' brown iror	- Olive 1 oxide :	clayey silt (ML) staining, wet to	, few gravels, mottled with orangish saturated, stiff.
MW4 d 22.5'	- - - 25 -	1×1   -			@ 23 - 28 subangular	3' - As a r gravels	above except lo to 3/4" diamte	ocally up to 15-20% subrounded to er, saturated, stiff.
	- 30				@ 28 - 33 saturated, refusal,	3' - Olive hard, m	e clayey silt (M ottled with oran	L), no gravel, very homogenous, igish brown Fe-oxide staining. Near
		_			@ 33 - 38	' - Olive	clayey silt, as	above, water showing.
	Pablo Avenu	9			Figur	e No:	Date:10/2	24/06
	nd, CA					W4 1/2	Drawn By	: JG - PIERS
	N	lon	ito	orin	g W	'ell	MW4	

				R	ORING LOG	· · · · ·	
Project No.			В		iameter:	2"	Logged By: Joel Greger
Project:2942	San P	ablo	E	levatio	n:		PIERS
Boring No. N	/W4		· · ·			- <b>h</b> .	Date drilled: 9/19/06
					Method: GeoPro		Drilling Company: Vironex
Sample intervals	G.W. level	Sampl Depth (ft)	Stratig (US	raphy CS)		[	Description
		35	-		@ 36.7' - Unoxid grained sand 36.	ized zone, color 5 - 37.5'.	change to dark green, trace very fin-
		- - 40 -	ML		@ 38 - 41' - Dar hard.	k green clayey :	silt (ML), very homogenous, saturated
		_					
		-				TOTAL D	EPTH - 41'
		- 45 -					
		-					
	F	- 50 -	-				
		-					
	-	55 —					
1	F	· -					
	F	-					
	Ē	60 —					
	E	-					
	F	65 — -					
2942 San		venue	•	<b>I</b>	Figure No:	Date:10/24	/06
Oaklar			-		MVV4 pg. 2/2	Drawn By:	JG - PIERS
*		Mo	onito	ring	g Well	MW4	
	·····						



		<u> </u>	ORING LOG		· · · · · · · · · · · · · · · · · · ·	
Project No.	Bo	Boring diameter: 2" Logged By: Joel Grege				
Project:2942 San Pablo	E	levatio	אר:		Date drilled: 9/19/06	
Boring No. MW5	D	rilling	Method: GeoProt	oe	Drilling Company: Vironex	
Sample G.W. Samp intervals level (ft)				D	escription	
			@ 0' - 0.5' - topso @ 1' - Brown clay		ck. Dist, stiff, appears undisturbed @ 2',	
- 5			@ 4' - mottled wit staining.	th orangish brow	n, otherwise as above. vn Fe-oxide staining and dark organic gular to subrounded gravels to 3/4"	
	-		@ 7.5' - Orangish	brown clayey si	ilt (ML), slightly moist, stiff.	
- 10 - 10 - 15 - 15	- ML - ML 	highly weathered. @ 11.3 - 12' - gravelly of portion of clay/silt matrix, v @ 12-14' - Olive clayey gravels to 3/4" diameter, n @ 14 - 16.5' - slough in s		ravelly clayey si matrix, wet arous clayey silt, or meter, mottled w ugh in sample li Olive clayey	vey silt (ML), very mosit, few gravels	
- 20 -			@ 19-24' - Olive of hard, only partial re	clayey silt as a scovery.	bove, few gravels, saturated?, stiff -	
MW4 d 22.5'			@ 24-29' - As a weathered and in p	above except art forming mate	gravelly clayey silt, gravels highly rix, saturated.	
- 30 -	- ML - ML 		@ 29 - 25 - Only saturated, stiff - har	partial recovery. d.	Clayey silt, few or no gravels (ML),	
2942 San Pablo Avenue		A	Figure No:	Date:10/24	/06	
Oakland, CA	÷		MW5 pg. 1/2	Drawn By:	JG - PIERS	
N	lonito	orin	g Well	MW5		

					DRING LOG	
Project No.			Во	ring di	ameter: 2'	" Logged By: Joel Greger PIERS
Project:2942	San Pa	ablo	E	levatio	n:	Date drilled: 9/19/06
Boring No. M	W5		D	rilling N	Method: GeoProb	e Drilling Company: Vironex
Sample intervals	G.W. level	Samp Depti (ft)	n Stratig (US	raphy CS)		Description
•		35			@ 36 - 38' free wa	ater, softer, slightly sandier, few gravels.
		- - - 40	- ML		@ 39' - start of un	oxidized zone (dark green), hard.
		- - - 45 -				TOTAL DEPTH - 40'
		- - 50 -				
		- 55 -				
		- 60 -				
		- - 65 -				
2942 Sar				-	Figure No:	Date:10/24/06
Oakland, CA					MW5 pg. 2/2	Drawn By: JG - PIERS
		N	Лопit	orir	ng Well	MW5



### APPENDIX D SURVEY DATA



CSS ENVIRONMENTAL SERVICES, INC. Managing Cost, Scope and Schedule 100 Galli Drive, Suite 1 Novato, CA 94949 Telephone: (415) 883-6203 Facsimile: (415) 883-6204

### Site Positions

CSS Project 6420 - Piers Environmental Services, Inc. 2942 San Pablo Ave., Oakland

Horizontal Coordinate System:	North American 1983-CONUS Survey Date: 9/26/06
Height System:	North American Vertical Datum 1988-Ortho. Ht. (GEOID03)
Project file:	6420 Piers Oakland.spr
Desired Horizontal Accuracy:	0.100Ft + 1ppm
Desired Vertical Accuracy:	0.100Ft + 2ppm
Confidence Level:	95% Err.
Linear Units of Measure:	Int. Feet

	Site ID	Site Descriptor		 Position	95% Error	Fix Status	Position Status
1	3814	MONUMENT AA3814		59.75783" N 18.11826" W 11.581		Fixed Fixed Fixed	Adjusted
2	MW-4	NR WELL LOC N RIM WELL LOCATION N TOC		11.87809" N 33.12212" W 32.30 31.97			Adjusted
3	MW-3	NR WELL LOC N RIM WELL LOCATION N TOC		13.29978" N 33.82983" W 31.37 31.00			Adjusted
4	MW-1	TBM-A ON N RIM N RIM WELL LOCATION N TOC		12.72308" N 33.29079" W 31.91 31.65			Adjusted
5	0882	MONUMENT HT0882	Lat. 3 Lon. 12 Elv.	48.04137" N 53.51060" W 9.131		Fixed Fixed Fixed	Adjusted
6	MW-5	NR WELL LOC N RIM WELL LOCATION N TOC	Lat. 3 Lon. 12 Elv. Elv.	12.63059" N 32.63195" W 32.27 32.11			Adjusted
7	M₩-2	TBM-B ON N RIM N RIM WELL LOCATION N TOC	Lat. 3 Lon. 12 Elv. Elv.	12.90376" N 34.35602" W 30.21 29.92	-	HED PROFES	

Exp. 12/31/0

CIVIL OF CALIFOR

### APPENDIX E GEOTRACKER UPLOADS