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Alameda County
Environmental Health

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Real Estate

July 7, 2009

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

SUBJECT: SUBSURFACE INVESTIGATION REPORT CERTIFICATION
County File # RO 387
Mel Senna Brake Service
2301 East 12th Street
Oakland, CA

Dear Mr. Wickham:

P&D Environmental, Inc. has prepared the following document:

- Subsurface Investigation Report (SB7 Through SB13 and SG1 Through SG6) dated July 7, 2009 (document 0404.R4).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 834-9811.

Sincerely,

J.W. Silveira Realty


J.W. Silveira

0404.L12

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

July 7, 2009
Report 0404.R4

Mr. J.W. Silveira
J.W. Silveira Realty
499 Embarcadero
Oakland, CA 94606

SUBJECT: SUBSURFACE INVESTIGATION REPORT
(SB7 THROUGH SB13 AND SG1 THROUGH SG6)
County File #RO 387
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

Dear Mr. Silveira:

P&D Environmental (P&D) is pleased to present this report on the drilling of soil borings at a total of 7 locations, designated as SB7 through SB13, and the collection of six soil gas samples designated as SG1 through SG6 to further characterize subsurface conditions at and near the subject site. The groundwater grab samples were collected to evaluate the horizontal and vertical extent of petroleum hydrocarbon and Halogenated Volatile Organic Compound (HVOC)-impacted groundwater in the vicinity of the subject site, and the soil gas samples were collected to evaluate risk posed by petroleum hydrocarbon and HVOC soil vapor at the subject site.

This work was performed in accordance with P&D's Subsurface Investigation Work Plan dated December 15, 2008 and a letter from Mr. Jerry Wickham at the Alameda County Environmental Health Department (ACDEH) dated January 23, 2009 which provided comments on the work plan. A Site Location Map (Figure 1) and Site Vicinity Map showing soil boring and soil gas sample collection locations (Figure 2) are attached with this report.

All work was performed under the direct supervision of an appropriately registered professional. This work plan is prepared in accordance with guidelines set forth in the document "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991 and the Department of Toxic Substances Control (DTSC) January 13, 2003 "Advisory – Active Soil Gas Investigations" which was developed as a coordinated effort with the Los Angeles Regional Water Quality Control Board.

BACKGROUND

The subject site was previously a gas station and vehicle repair facility, and is currently a tire and brake repair facility. The subject site is located in an industrially zoned area and bordered to the northeast by East 12th Street, to the southeast by railroad property, to the northwest by 23rd Avenue and a public park, and to the southwest by a furniture restoration facility. A detailed discussion of historic subsurface investigations at the site is provided in P&D's December 15, 2008 Work Plan.

FIELD ACTIVITIES

Prior to drilling, Alameda County Public Works Agency drilling permit # W2009-0171 was obtained for the drilling locations designated as SB7 through SB13 and SG1 through SG6. Excavation permits X0900214 and X0900213 were obtained from the City of Oakland for soil borings SB7 through SB13 that were located in the public right-of-way. In addition, the drilling locations were marked with white paint, Underground Safety Alert was notified for buried utility location, and a health and safety plan was prepared.

P&D personnel oversaw the drilling of soil borings at a total of seven locations, designated as SB7 through SB13 on March 5, 10, and 11, 2009. Boreholes were hand augered at locations SB7, SB8, and SB11 to depths of 8.2, 7.0, and 12.5 feet below the ground surface (bgs), respectively. At locations SB9, SB10, and SB12, boreholes were continuously cored to a total depth of 20.0 feet bgs, and at location SB13 a borehole was continuously cored to a total depth of 60.0 feet bgs. One groundwater grab sample was collected at each location from first encountered groundwater. In addition, at locations adjacent to the continuously cored boreholes at SB12 and SB13, soil conductivity probes were pushed to a total depth of approximately 60.0 feet to identify higher permeability zones below first encountered groundwater. Based on the continuous core at location SB13 and the soil conductivity probes at locations SB12 and SB13, groundwater samples were collected at locations SB12 and SB13 using a Hydropunch at depths below first encountered groundwater to evaluate the vertical extent of impact to groundwater. The Hydropunch samples were collected between the depths of 45.0 and 49.0 feet bgs at SB12, and 48.0 to 52.0 feet bgs at SB13.

A total of six soil gas samples, designated as SG-1 through SG-6, were collected on March 9, 10, and 11, 2009. Based on the measured depth to groundwater in groundwater monitoring wells at the site, all of the soil gas samples were collected at depths of 3 feet bgs with the exception of SG6, which was collected at a depth of 5 feet bgs.

Borehole Drilling and Soil and Groundwater Sample Collection

Four of the seven drilling locations (SB9, SB10, SB12, and SB13) were continuously cored using Geoprobe Macrocore barrel samplers lined with transparent PVC sleeves. Three of the drilling locations (SB7, SB8 and SB11) were hand augered using a 3.5 inch outside diameter stainless steel auger. The soil from the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System. The soil from the boreholes was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb and calibrated with a 100 ppm isobutylene standard, and PID values were recorded on the boring logs. The soil was also evaluated for other evidence of petroleum hydrocarbon contamination such as odors, staining, and discoloration. No elevated PID values, odors, staining, or discoloration were detected in any of

the boreholes with the following exceptions. Elevated PID values were encountered at drilling locations SB11, SB12 and SB13, with maximum PID values of 1014, 243 and 145 ppm, respectively. No PID values were detected in any of the other boreholes. Odors, staining and discoloration were encountered at drilling locations SB10, SB11, SB12 and SB13 as follows.

- SB10: 7.0 to 11.0 feet bgs - blue green discoloration but no odor.
- SB11: 7.5 to 12.0 feet bgs – gray discoloration with moderate to strong petroleum odor, and 12.0 to 12.5 feet bgs gray discoloration but no odor.
- SB12: 8.0 to 18.0 feet bgs - blue green discoloration with strong petroleum odor.
- SB13: 8.0 to 19.0 feet bgs - blue green discoloration with strong petroleum odor, and 19.0 to 25.5 feet bgs gray discoloration with slight petroleum odor.

Soil samples were retained for laboratory analysis from continuously cored boreholes SB11, SB12 and SB13 at intervals where elevated PID values were encountered in the following manner. Soil samples were collected from the boreholes drilled using GeoProbe technology by continuously coring the boreholes using a 5-foot long 2.0-inch outside diameter macrocore barrel sampler lined with transparent PVC tubes. Following removal of the PVC liner from the GeoProbe macrocore barrel sampler, the liner was evaluated for the amount of sample recovery in the liner, and a 6-inch long section of the liner was then cut at the depth corresponding to the desired sample collection depth. Following collection of the 6-inch sample, the ends of the sample were evaluated with the PID, and then sequentially covered with aluminum foil and plastic endcaps. The sample was then labeled and placed into a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling. The sample collection intervals were recorded on the boring logs. Copies of the boring logs are attached with this report as Appendix A.

Although efforts were made to excavate at several of the drilling locations using air knife drilling methods, the wet clayey materials at these locations made use of the method ineffective and hand augering was performed instead. Despite expectation that groundwater would be encountered at a depth ranging approximately 5 to 9 feet bgs, groundwater was not encountered during drilling at locations SB10 and SB12. At locations SB7, SB8, SB9, SB11, and SB13 groundwater was encountered while drilling at depths of 8.0, 7.0, 14.5, 10.0, and 21.0 feet bgs, respectively. At location SB13, continuous coring was temporarily stopped at a depth of 25.0 feet and depth to groundwater measurements were recorded until a groundwater sample was collected.

Following completion of drilling, water was subsequently measured in boreholes SB7 through SB10 at depths of 7.0, 6.5, 8.6 and 18.3 feet bgs, respectively, and in boreholes SB12 and SB13 at depths of 8.7 and 15.7 feet bgs, respectively. Borehole SB10 was left open overnight, at which point groundwater was encountered at a depth of 18.3 feet bgs the following day. The depth to

water was not measured in borehole B10 after groundwater was initially encountered. Depth to water information was recorded on the boring logs.

One groundwater grab sample was collected from first encountered groundwater in each of the boreholes that was continuously cored using GeoProbe technology in the following manner. A temporary 1-inch diameter slotted PVC pipe was placed into the borehole. The groundwater grab samples were collected from the temporary PVC pipe in the boreholes using a polyethylene tube with a stainless steel check valve. The groundwater grab sample from hand augered boreholes SB7, SB8 and SB11 were collected using a new polyethylene disposable bailer.

Following review of subsurface conditions identified in the soil conductivity logs, groundwater grab samples were also collected at drilling locations SB12 and SB13 by driving a Hydropunch at a location approximately two feet away from the soil conductivity log borehole. The Hydropunch was driven at locations SB12 and SB13 to total depths of 49.0 and 52.0 feet bgs, respectively. After driving the Hydropunch to the desired depth and prior to retracting the drilling rods to expose the Hydropunch screen, the interior of the drilling rods were evaluated to determine if water was present inside the drilling rods. No water was measured in the drilling rods prior to retracting the drilling rods to expose the Hydropunch screen. The drilling rods were then retracted at each location to expose a four-foot long section of Hydropunch screen. Following retraction of the drilling rods to expose the Hydropunch screen at each of locations SB12 and SB13, the depth to water was measured inside the drilling rods immediately prior to sample collection at depths of 42.6 and 46.7 feet fbg, respectively. A groundwater grab sample was then collected from each of the boreholes using polyethylene tubing and a stainless steel foot valve.

All of the water samples were transferred to 40-milliliter glass VOA vials and 1-liter amber glass bottles containing hydrochloric acid preservative, which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that air bubbles were not present. The samples were labeled and then placed into a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole. New polyethylene tubing and new disposable bailers were used at each location where these materials were used. Following completion of sample collection activities, the boreholes were filled with neat cement grout. Soil generated during drilling was stored in labeled drums at the site pending characterization and disposal.

Soil Conductivity Logging

Soil conductivity logging was performed at locations SB12 and SB13 to a depth of approximately 60.0 feet fbg. Soil conductivity values were continuously measured and recorded and printed as a

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log. Copies of the soil conductivity logs for boreholes SB12 and SB13 are attached with this report as Appendix B. Please note that the vertical and horizontal scales for the SB12 log are the same as for the SB13 log.

Increased conductivity values indicate finer grained materials. Correlation of the log values with actual earth materials is performed by evaluation and comparison of the conductivity logs with the lithology recorded of continuous cores obtained at locations SB12 and SB13. GeoProbe has suggested the following correlation between soil type and soil conductivity.

Coarse Sand = 75 ms/m (Milli-Siemens per meter)

Silty Sand = 76-150 ms/m (Milli-Siemens per meter)

Silty Clay = 151-200 ms/m (Milli-Siemens per meter)

Clay = 200 and greater ms/m (Milli-Siemens per meter)

Comparison of the suggested soil types and associated soil conductivity values with the conductivity logs shows that the majority of the soil types consist of coarse sand or silty sand. However, review of the visually logged boring logs shows that the subsurface materials were described predominantly as silty clay, with layers of clayey sand present at location SB13. This suggests that an x-axis shift would be appropriate in adjusting suggested soil conductivity values to correlate better with observed soil types.

Comparison of the soil conductivity logs with the visually logged portions of the corresponding boreholes shows that lower conductivity values correlate with some of the clayey sand intervals described in the visual logs. Comparison of the two soil conductivity logs shows that a noticeable increase in conductivity for a layer measuring approximately five feet thick is observed in both of the logs at a depth of approximately 40 feet bgs. Both of the Hydropunch samples were collected below this zone of increased soil conductivity.

Soil Gas Sample Collection

A total of six soil gas samples, designated as SG-1 through SG-6, were collected on March 9, 10, and 11, 2009. Based on the measured depth to groundwater in groundwater monitoring wells at the site, all of the soil gas samples were collected at depths of 3 feet bgs with the exception of SG6, which was collected at a depth of 5 feet bgs. Samples SG1 through SG5 were collected around the building perimeter at 2301 East 12th Street, and sample SG6 was collected in the vacant unsurfaced lot located north of 23rd Avenue. The ground surface surrounding the building is covered with

asphalt at sampling locations SG1 through SG5. The sample collection locations are shown in Figure 2.

Prior to soil gas sample collection, the depth to groundwater was measured on March 9, 2009 in wells MW2, MW3, MW4, MW5 and MW6 using a steel tape and water finding paste. The measured depth to groundwater was 4.5, 5.5, 4.8, 6.6 and 5.3 feet, respectively. Based on the shallow depth to groundwater near the building in wells MW2, MW3 and MW6, soil gas samples SG1 through SG5 (located adjacent to the building) were all collected at a depth of 3 feet bgs. Based on the measured depth to groundwater in wells MW4 and MW5 (located in the street to the north of the subject site) and the presence of soil gas sample collection location SG6 in an area that did not have ground surface cover of asphalt or concrete, soil gas sample SG6 was collected at a depth of 5 feet bgs.

All of the soil gas samples were collected using temporary soil gas sampling wells. The temporary wells were constructed by driving a hollow 1-inch diameter Geoprobe rod with an expendable tip to a depth of 3 feet at locations SG1 through SG5 and to a depth of 5 feet at location SG6, dislodging the expendable tip, and then inserting a 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube to the bottom of the hollow rod.

A 4-foot length of Teflon tubing was used for locations where the Geoprobe rod had been driven to a depth of 3 feet, and a 7-foot length of Teflon tubing was used for locations where the Geoprobe rod had been driven to a depth of 5 feet. Prior to inserting the Teflon tubing the lowermost 6 inches of the Teflon tube was perforated at several locations by notching the sides of the tube with a clean razor blade. A #2/16 Lonestar sack sand was added to the annular space between the hollow rod and the Teflon tube as the hollow rod was withdrawn from the ground until the lowermost 8 inches of the hole was filled with sand. Granular bentonite (with grains the size of kitty litter) was placed in the annular space above the sand to the ground surface. The bentonite was hydrated and the 6-liter Suma purge canister and 1-liter Suma sample canister were then connected to the Teflon tubing using the configuration shown in Figure 3. At the time that the sampling manifold was assembled, the vacuum for the sample canister was checked with a vacuum gauge and recorded. The temporary well was then undisturbed for a minimum of 30 minutes prior to purging for sample collection to allow soil gas equilibration.

Following the equilibration period and prior to purging the soil gas from the temporary soil gas sampling well, a 10 minute leak check of the sampling manifold was performed by closing the valve located between the filter and the pressure gauge, opening the purge canister valve, and recording the manifold system vacuum (see Figure 3). Following successful verification of the manifold leak check, the purge volume was calculated. No purge testing for purge volume determination was done because no mobile laboratory was at the site. A default of three purge volumes was extracted prior to sample collection. The purge time was calculated using a

nominal flow rate provided by the flow controller of 200 milliliters per minute. Purge volume calculations are provided in Appendix C of this report.

Following completion of purging three purge volumes, the valve to the purge canister was closed, a tracer gas (2-Propanol) was placed in a dish adjacent to the purge canister, and a clear Rubbermaid bin was placed over the top of the temporary well, the sampling manifold, and the 1-liter sample canister. The vapor concentration of the 2-Propanol was monitored with a PID until 2-Propanol vapor concentrations appeared to have equilibrated. The Rubbermaid bin was then temporarily and partially lifted long enough to open the sample canister valve and the bin was then be replaced over the sampling equipment and the 2-Propanol vapor concentrations were then monitored again with the PID. Once the vacuum for the sample canister valve decreased to 5 inches of mercury, the Rubbermaid lid was removed and the sample canister valve closed.

A total of one replicate soil gas sample (designated as DUP) was collected into a one-liter Summa canister using procedures described above immediately after the collection of the corresponding original sample. The void space and tubing was not purged of three purge volumes prior to collection of the replicate sample. Following soil gas sample collection, a PID was connected to the Teflon tubing to obtain a preliminary field value for the sample collection location. The soil gas samples were then stored in a box and promptly shipped to the laboratory for extraction and analysis. Soil gas sampling was not performed during or following a precipitation event. Measurements of vacuums, purging and equilibration time intervals, and PID readings were recorded on Soil Gas Sampling Data Sheets that are provided in Appendix C of this report.

During sample collection, an initial attempt was made to collect a soil gas sample at location SG6. However, because of high vacuum conditions, the sample collection location was re-located to a second location approximately five feet away from the initial sample collection location.

All drilling rods and associated drilling fittings were cleaned with an Alconox solution wash followed by a clean water rinse. New Teflon tubing was used at each sample collection location. Clean, unused vacuum gages and stainless steel sampling manifolds containing flow restrictors were used at each sample collection location. Following soil gas sample collection the Teflon tubing was pulled from each temporary soil gas sampling well and a 1-inch diameter solid steel rod was driven through the bentonite and sand to the total depth of the temporary soil gas sampling well. The solid steel rod was then removed, and the borehole was filled with neat cement.

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Drum Disposal

On March 30, 2009 one drum containing soil generated during the subsurface investigation was removed from the site by Clearwater Environmental, Inc. of Union City, California. The drum was removed as non-hazardous waste with manifest number 6733. The soil was taken to the Alviso Independent Oil facility in Alviso, California. A copy of the manifest is attached as Appendix D.

GEOLOGY AND HYDROGEOLOGY

Review of Figure 1 shows that the Brooklyn Basin (connected to San Francisco Bay by way of a Tidal Canal to the south and the Oakland Inner Harbor to the north) is located approximately 1,800 feet to the west of the subject site, and Sausal Creek is located approximately 2,900 feet to the east of the subject site.

Based on review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, the subject site is underlain by Pleistocene Beach and Dune Sand Deposits (Merrit Sand), which is described as loose well-sorted fine to medium sand. The site is bordered immediately to the north and east by Holocene Medium-Grained Alluvium (Qham), described as unconsolidated moderately sorted permeable fine sand, silt, and clayey silt with a few thin beds of coarse sand.

Based on the materials encountered in the borehole cores and soil conductivity logs at drilling locations SB7 through SB13, the subsurface materials encountered at the site consisted predominantly of clay, silty clay, and sandy clay, with intermittent layers of clayey sand. The subsurface materials at the site correlate with Holocene Medium-Grained Alluvium (Qham) rather than Pleistocene Beach and Dune Sand Deposits (Merrit Sand).

The measured depth to water in groundwater monitoring wells at the subject site have historically ranged from approximately 5 to 9 feet below the ground surface. The groundwater flow direction at the subject site has historically been calculated to be to the northwest. However, historic water level measurements in the UST pit (wells EW1 and MW1) have been elevated relative to the water levels in the surrounding wells. Similarly, the water level in well MW6 appears anomalously low in relative to the water levels in the adjacent wells. Based on the groundwater levels in wells MW1 through MW5, the groundwater flow direction on June 4, 2007 appeared to be westerly to southwesterly.

Review of groundwater flow direction information for nearby sites with groundwater monitoring wells shows that the groundwater flow direction at 2200 East 12th Street (located approximately

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800 feet northwest of the subject site) has historically been to the west-southwest, and the groundwater flow direction at 2345 International Boulevard (located approximately 500 feet northeast of the subject site) has historically been to the southwest.

LABORATORY ANALYSIS

The soil and groundwater samples collected from each borehole were analyzed at McCampbell Analytical, Inc. (McCampbell) in Pittsburg, California. McCampbell is a State-Accredited hazardous waste testing facility. The soil gas samples were analyzed at Air Toxics Limited of Folsom, California.

The soil samples collected from boreholes SB11, SB12, and SB13 and the groundwater samples collected from boreholes SB7 through SB13 were analyzed for TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015, for TPH-D using EPA Methods 3550 or 3510 in conjunction with Modified EPA Method 8015, and Volatile Organic Compounds (VOCs), including methyl tertiary-butyl ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX), lead scavengers, and fuel oxygenates using EPA Method 5030B in conjunction with EPA Method 8260B.

The soil gas samples collected from boreholes SG-1 through SG-6 were analyzed for VOCs (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, MTBE, BTEX, naphthalene, and the tracer gas 2-propanol) by modified EPA Method TO15, and for TPH-G by modified EPA Method TO-3. In addition, the laboratory also performed two duplicate sample analyses identified as SG1-DUP Lab Duplicate and SG5 Lab Duplicate.

The soil sample results are summarized in Tables 1A and 1B, the groundwater sample results are summarized in Tables 2A, 2B and 2C, and the soil gas sample results are summarized in Table 3. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report as Appendix E.

SOIL GAS RISK AND HAZARD CALCULATION

The soil gas results for all detected VOCs were evaluated using the Cal/EPA screening-level model for soil gas contamination (last modified February 4, 2009). The model is the California-adopted Johnson Ettinger model used for calculating predicted risk and hazard posed by vapor intrusion to indoor air. The default values of the model DATAENTER page were used with the following exceptions.

- Soil type SI was selected for the vadose zone soil type.

- Soil gas sampling depth was three feet (91.4 centimeters) for SG1 through SG5, and the default sampling depth of five feet (152.4 centimeters) was used for SG6.
- After calculating risk and hazard for the default residential exposure scenario (exposure duration of 30 years and exposure frequency of 350 days per year) a commercial exposure scenario was calculated using an exposure duration of 25 years and an exposure frequency of 250 days per year).

The p-xylene CAS # was used for calculation of the m,p-xylene risk and hazard.

The spreadsheet RESULTS page output for the calculated risk and hazard for both the residential and commercial exposure scenarios are summarized in Table 4.

Model sensitivity analysis resulted in the following findings.

- The default average soil temperature value of 24 degrees C yielded the same risk and hazard results as calculations using an average soil temperature of 18 degrees C.
- The vadose zone soil type SI yielded the same risk and hazard results as soil types SC, SIL and S.
- Different soil gas sampling depths yielded different risk and hazard results.
- Residential and commercial exposure scenarios yielded different risk and hazard results.

DISCUSSION AND RECOMMENDATIONS

Review of the soil sample results in Table 1A shows that the detected soil sample results exceeded May 2008 San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) Table A Environmental Screening Level (ESLs) for commercial/industrial land use for TPH-G at a depth of 8.5 feet at SB11 and at a depth of 9.5 feet at SB12 and SB13. The TPH-G Table C ESL value was also exceeded in SB12 and SB13 at a depth of 17.5 feet. Similarly, the TPH-D Table A ESL was exceeded at depths of 8.5 and 9.5 feet at SB11 and SB13, respectively, and the TPH-D Table C ESL was exceeded at a depth of 17.5 feet at SB13. MTBE and BTEX were not detected in any of the samples with the exception of 0.84 mg/kg ethylbenzene, which was at a concentration below the respective ESL value. Review of the soil sample results in Table 1B shows that none of the other VOCs detected have ESLs or were detected at a concentration exceeding their respective ESL. The maximum concentration for any detected VOC in soil on Table 2 is 1.2 mg/kg.

Review of the groundwater sample results in Table 2A shows that the detected groundwater sample results exceeded May 2008 SF-RWQCB Table A Environmental Screening Level (ESLs) for TPH-G in first encountered groundwater at locations SB9, SB11, SB12 and SB13, and at SB12 at a depth of 45 feet. Similarly, TPH-D was detected at concentrations exceeding the Table A ESL in

all of the samples with the exception of the first encountered groundwater sample from SB8 and the groundwater sample collected at a depth of 48 feet in SW13. The only MTBE and BTEX concentrations exceeding their respective ESL values were benzene in shallow groundwater at locations SB11 and SB13 and ethylbenzene in shallow groundwater at locations SB11. Review of the groundwater sample results in Table 2B shows that none of the other VOCs detected have ESLs or were detected at a concentration exceeding their respective ESL with the exception of 1,2-DCA at SB10 and TBA at SB13. Review of Table 2C shows that the only detected shallow groundwater HVOC concentrations exceeding their respective May 2008 Table A ESL values were TCE at SB9, SB10 and SB11, cis-1,2-DCE at SB10 and SB11, trans 1,2-DCE at SB11, and vinyl chloride at SB11 and SB13.

TPH-D concentrations in groundwater are shown in Figure 4, and TPH-G and benzene concentrations in groundwater are shown in Figures 5 and 6, respectively. Review of these figures shows that the highest concentrations of TPH-D, TPH-G and benzene are located in the immediate vicinity of the former UST pits, and extend northwestward to beyond the northwest side of 23rd Avenue. However, the concentrations of these compounds at SB11 (in the sanitary sewer trench) are not consistent with concentrations encountered at nearby locations SB3, SB4, SB5 and SB12. The concentrations detected in the sanitary sewer trench at SB11 are substantially higher than the other nearby detected concentrations and are interpreted to have originated from some other unknown source. Similarly, the general absence of petroleum hydrocarbons in samples SB7 and SB8 (also collected in utility trenches) indicates that petroleum hydrocarbons are not preferentially migrating southeastwards from the site in utility trenches at concentrations of concern. Figures 4, 5 and 6 also show that petroleum hydrocarbons do not appear to be migrating to the west toward an inactive well previously identified in P&D's December 8, 2008 Sensitive Receptor Survey Report (document 0404.R2) at 1091 Calcot Street. Although the well location at the property is not known, the shortest distance from the subject site to the 1091 Calcot Street property is approximately 235 feet. Review of Figure 4 shows that the TPH-D concentration at SB9 indicates that the extent of TPH-D has not been defined in first encountered groundwater to south of the subject site. Railroad tracks are located immediately to the south of the subject site, and no further investigation of TPH-D to the south of the site is recommended at this time.

Figure 7 shows the historic maximum TCE and DCE groundwater concentrations encountered in the vicinity of the site, and Figure 8 shows the most recent TCE and DCE groundwater concentrations in the vicinity of the subject site. Groundwater TCE isoconcentration contours are shown in the two figures. Comparison of the two figures shows that historic elevated TCE and DCE groundwater concentrations in the immediate vicinity of the former UST pits has diminished entirely. Review of Figure 8 shows that the only locations where TCE was detected during the current investigation in groundwater at concentrations exceeding the May 2008 Table A ESL was to the southwest and west at locations SB9, SB10 and SB11.

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Review of SB12 and SB13 groundwater sample results shown in Tables 2A, 2B and 2C and on Figures 4, 5, 6, and 8 show that no analytes were detected in groundwater at a depth of 48 feet at SB13 (located in the source area), but that detectable concentrations of analytes were encountered at a depth of 45 feet at a distance of approximately 125 feet to the northwest of the site. The presence of detectable concentrations of analytes at SB12 at a depth of 45 feet indicates that the groundwater plume is moving vertically downwards with distance from the subject site. Only TPH-D and TPH-G were detected at SB12 at a depth of 45 feet at concentrations exceeding their respective May 2008 Table A ESL values.

Review of the soil gas results in Table 3 shows that the only compound detected at concentrations exceeding the May 2008 SFRWQCB Table E ESL for industrial land use was TPH-G. The TPH-G concentrations exceeded the ESL for all samples except at location SG5. TPH-G and benzene soil gas concentrations are shown in Figures 9 and 10, respectively.

Review of Table 4 shows that none of the calculated cumulative hazards from vapor intrusion for any of the sampling locations exceeded 1.0. However, the cumulative incremental carcinogenic risk from vapor intrusion for a commercial exposure scenario exceeded 1.0E-06 at locations SG2, SG4, and also for the evaluation of the highest concentrations encountered for each detected analyte in soil gas at the site.

Based on the TPH-G soil gas results and the Table 4 results of cumulative incremental carcinogenic risk from vapor intrusion for a commercial exposure scenario, P&D recommends that sub-slab soil gas samples be collected at locations SG7 through SG10 as shown on Figures 9 and 10.

DISTRIBUTION

A copy of this report should be uploaded to the Alameda County Environmental Health Department ftp website with a letter on company letterhead identifying the contact information for the responsible party. In addition, a copy of this report should also be uploaded to the GeoTracker website.

LIMITATIONS

This report was prepared solely for the use of J.W. Silveira Realty. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may

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vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

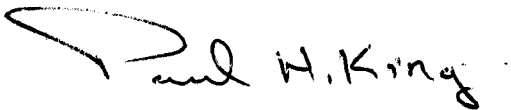
This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
President
California Professional Geologist #5901
Expires: 12/31/09



July 7, 2009
Report 0404.R4

Attachments:

Table 1A - Summary of Soil Analytical Results – TPH and BTEX
Table 1B - Summary of Soil Analytical Results – Other Detected VOCs
Table 2A - Summary of Groundwater Analytical Results - TPH and BTEX
Table 2B - Summary of Groundwater Analytical Results - Other Detected Non-Halogenated VOCs
Table 2C - Summary of Groundwater Analytical Results - Detected Halogenated VOCs
Table 3 - Summary of Soil Gas Analytical Results
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Figure 1 - Site Location Map
Figure 2 - Site Vicinity Map Showing Underground Utility and Sample Collection Locations
Figure 3 - Typical Soil Gas Sampling Manifold
Figure 4 - Site Vicinity Map Showing TPH-Diesel in Groundwater
Figure 5 - Site Vicinity Map Showing TPH-Gasoline in Groundwater
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Figure 9 - Site Vicinity Map Showing TPH-Gasoline in Soil Gas
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Appendix A – Soil Boring Logs
Appendix B – Electrical Conductivity Logs
Appendix C – Soil Gas Purge Volume Calculations and Field Data Sheets
Appendix D - Soil Disposal Manifest
Appendix E - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1A. Summary of Soil Sample Laboratory Analytical Results - TPH and BTEX

Sample ID	Sample Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB11-8.5	3/11/2009	97, b,c,d	370, a	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
SB12-9.5	3/10/2009	67, b,c,d	360, a	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
SB12-14.5	3/10/2009	15, b,c,d	25, a	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB12-17.5	3/10/2009	13, b,c,d	390, a	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB13-9.5	3/10/2009	280,d,e	820, a	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
SB13-13.5	3/10/2009	9.5, b,c,d	35, a	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB13-17.5	3/10/2009	94, b,d	460, a	ND<0.20	ND<0.20	ND<0.20	0.84	ND<0.20
ESL ¹		83	83	0.023	0.044	2.9	2.3	2.3
ESL ²		83	83	0.023	0.044	2.9	3.3	2.3
ESL ³		83	83	0.023	0.044	2.9	3.3	2.3
ESL ⁴		83	83	0.023	0.044	2.9	3.3	2.3

Abbreviations and Notes:

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary-butyl ether

a = no recognizable pattern.

b = Laboratory Note: diesel range compounds are significant; no recognizable pattern.

c = Laboratory Note: oil range compounds are significant.

d = Laboratory Note: Stoddard solvent/ mineral spirits (?)

e = Laboratory Note: unmodified or weakly modified diesel is significant.

ND = Not detected

ESL¹ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table A – Shallow Soils, groundwater is a current or potential source of drinking water, updated May 2008. Residential Land use.

ESL² = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table C – Deep Soils, groundwater is a current or potential source of drinking water, updated May 2008. Residential Land use.

ESL³ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table A – Shallow Soils, groundwater is a current or potential source of drinking water, updated May 2008. Commercial/Industrial Land use.

ESL⁴ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table C – Deep Soils, groundwater is a current or potential source of drinking water, updated May 2008. Commercial/Industrial Land use.

Values in bold exceed ESLs

Results in milligrams per Kilogram (mg/kg) unless otherwise specified.

Table 1B. Summary of Soil Sample Laboratory Analytical Results - Other Detected VOCs

Sample ID	Sample Date	VOCs	ESL, ¹	ESL, ²
SB11-8.5	3/11/2009	ND, except		
		n-Butyl benzene = 0.81	None	None
		4-Isopropyl toluene = 0.48	None	None
		sec-Butyl benzene = 0.36	None	None
		Isopropyl benzene = 0.44	None	None
		n-Propyl benzene = 0.94	None	None
SB12-9.5	3/10/2009	ND, except		
		n-Butyl benzene = 0.63	None	None
		4-Isopropyl toluene = 0.52	None	None
		sec-Butyl benzene = 0.35	None	None
		Isopropyl benzene = 0.63	None	None
		n-Propyl benzene = 1.2	None	None
SB12-14.5	3/10/2009	ND, except		
		n-Butyl benzene = 0.054	None	None
		4-Isopropyl toluene = 0.038	None	None
		sec-Butyl benzene = 0.031	None	None
		Isopropyl benzene = 0.047	None	None
		n-Propyl benzene = 0.074	None	None
SB12-17.5	3/10/2009	ND, except		
		<i>Acetone = 0.057</i>		0.5
		n-Butyl benzene = 0.054	None	None
		4-Isopropyl toluene = 0.045	None	None
		sec-Butyl benzene = 0.028	None	None
		Isopropyl benzene = 0.053	None	None
		n-Propyl benzene = 0.098	None	None
SB13-9.5	3/10/2009	ND, except		
		n-Butyl benzene = 1.2		None
		4-Isopropyl toluene = 0.73		None
		sec-Butyl benzene = 0.41		None
		Isopropyl benzene = 0.91		None
		n-Propyl benzene = 1.9		None
SB13-13.5	3/10/2009	ND, except		
		n-Butyl benzene = 0.018		None
		4-Isopropyl toluene = 0.018		None
		sec-Butyl benzene = 0.0090		None
		Isopropyl benzene = 0.0091		None
SB13-17.5	3/10/2009	ND, except		
		n-Butyl benzene = 0.59		None
		4-Isopropyl toluene = 0.39		None
		sec-Butyl benzene = 0.24		None
		Isopropyl benzene = 0.52		None
		n-Propyl benzene = 0.97		None

Abbreviations and Notes:

ND = Not detected

ESL¹ = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water (Residential Land Use).

ESL² = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water (Commercial/Industrial Use).

Italicised Compounds are non-petroleum VOCs.

Values in bold exceed ESLs

Results in milligrams per Kilogram (mg/kg) unless otherwise specified.

Table 2A. Summary of Groundwater Sample Laboratory Analytical Results - TPH and BTEX

Sample ID	Sample Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes
SB7-W	3/5/2009	100, c,d	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB8-W	3/5/2009	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB9-W	3/10/2009	1,400, c,d,e	160, b	ND<0.5	ND<0.5	2.9	0.53	ND<0.5
SB10-W	3/11/2009	110, c	ND<50	ND<1.0	ND<1.0	3.2	ND<1.0	ND<1.0
SB11-W	3/11/2009	8,100, a,c,d,e	9,100, a	ND<2.5	37	ND<2.5	41	6.1
SB12-W	3/10/2009	760, d,e	2,300	ND<1.2	ND<1.2	14	1.3	3.8
SB12W-45	3/10/2009	110, c,d,e	130, b	ND<0.5	ND<0.5	1.7	ND<0.5	0.60
SB13-W	3/10/2009	610, c,d,e	420	ND<0.5	8.4	1.8	2.7	0.88
SB13W-48	3/10/2009	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
<i>ESL</i>		<i>100</i>	<i>100</i>	<i>5.0</i>	<i>1.0</i>	<i>40</i>	<i>30</i>	<i>20</i>

Abbreviations and Notes:

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary-butyl ether

ND = Not detected

a = Laboratory Note: lighter than water immiscible sheen/ product is present

b = Laboratory Note: no recognizable pattern.

c = Laboratory Note: diesel range compounds are significant; no recognizable pattern

d = Laboratory Note: oil range compounds are significant.

e = Laboratory Note: Stoddard solvent/mineral spirits (?).

ESL= Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table A – Shallow Soils, groundwater is a current or potential source of drinking water, updated May 2008.

Values in bold exceed ESLsResults in micrograms per liter ($\mu\text{g/L}$) unless otherwise specified.

Table 2B. Summary of Groundwater Sample Laboratory Analytical Results - Other Detected Non-Halogenated VOCs			
Sample ID	Sample Date	Other Detected VOCs	ESL
SB7-W	3/5/2009	ND	
SB8-W	3/5/2009	ND	
SB9-W	3/10/2009	ND	
SB10-W	3/11/2009	ND, except Acetone = 43 MEK = 10 1,2-DCA = 1.2 ;	1,500 4,200 0.5
SB11-W	3/11/2009	ND, except n-Butyl benzene = 29 4-Isopropyl toluene = 27 sec-Butyl benzene = 17 Isopropyl benzene = 66 n-Propyl benzene = 90	None None None None None
SB12-W	3/10/2009	ND, except, Acetone = 43 MEK = 5.2 n-Butyl benzene = 5.7, 4-Isopropyl toluene = 5.4, sec-Butyl benzene = 3.8, Isopropyl benzene = 12, n-Propyl benzene = 14 1,2,4-Trimethylbenzene = 2.4 1,3,5-Trimethylbenzene = 1.2	1,500 4,200 None None None None None None None
SB12W-45	3/10/2009	ND, except Isopropylbenzene = 0.51, n-Propylbenzene = 0.59 Naphthalene = 0.69,	None None 17
SB13-W	3/10/2009	Acetone = 49 MEK = 23 Chlorobenzene = 2.4 Isopropylbenzene = 2.1, n-Propylbenzene = 1.7 Naphthalene = 1.2, TBA = 14 2-Hexanone = 1.7	1,500 4,200 25 None None 17 12 None
SB13W-48	3/10/2009	ND	
<i>ESL</i>			
Abbreviations and Notes:			
VOCs = Volatile Organic Compounds.			
1,2-DCA = 1,2-Dichloroethane			
MEK = Methyl Ethyl Ketone (2-butanone)			
TBA = tert-Butyl Alcohol			
ND = Not detected			
VOC results were analyzed using EPA Method 8260B.			
ESL = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water.			
Values in bold exceed ESLs			
Results in micrograms per liter (µg/L) unless otherwise specified.			

Table 2C. Summary of Groundwater Sample Laboratory Analytical Results - Detected Halogenated VOCs

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	1,1-DCA	Vinyl Chloride	Chloroform
SB7-W	3/5/2009	ND<0.5	0.86	0.63	ND<0.5	ND<0.5	ND<0.5	ND< 0.5	ND<0.5
SB8-W	3/5/2009	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND< 0.5	ND<0.5
SB9-W	3/10/2009	ND<0.5	18	1.2	ND<0.5	ND<0.5	ND<0.5	ND< 0.5	ND<0.5
SB10-W	3/11/2009	ND<1.0	42	49	4.4	ND<1.0	ND<1.0	ND< 1.0	ND<1.0
SB11-W	3/11/2009	ND<2.5	30	9.6	11	ND<2.5	ND<2.5	3.1	ND<2.5
SB12-W	3/10/2009	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND< 1.2	ND<1.2
SB12W-45	3/10/2009	ND<0.5	0.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND< 0.5	ND<0.5
SB13-W	3/10/2009	ND<0.5	ND<0.5	3.1	2.1	ND<0.5	ND<0.5	1.2	ND<0.5
SB13W-48	3/10/2009	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND< 0.5	ND<0.5
<i>ESL</i>		5.0	5.0	6.0	10	6.0	5.0	0.5	70.0

Abbreviations and Notes:

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene

1,1-DCE = Dichloroethene

1,1-DCA = Dichloroethane

VOCs = Volatile Organic Compounds.

ND = Not detected

VOC results were analyzed using EPA Method 8260B.

ESL = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water.

Values in bold exceed ESLs

Results in micrograms per liter (µg/L) unless otherwise specified.

TABLE 3
SUMMARY OF SOIL GAS ANALYTICAL RESULTS

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	TPH-G	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylenes	2-Propanol, b
SG1	3/9/2009	ND<61	ND<49	ND<36	ND<36	ND<23	94,000	70	9,700	380	1,100	310	ND<89
SG1-DUP	3/9/2009	ND<34	ND<27	ND<20	ND<20	ND<13	67,000	54	5,500	250	770	220	ND<49
SG1-DUP Lab Duplicate		ND<15	ND<12	ND<8.9	ND<8.9	ND<5.7	NA	53	5,800, a	240	760	220	ND<22
SG2	3/9/2009	21	ND<14	ND<10	ND<10	ND<6.6	270,000	140	3,200	190	630	260	ND<25
SG3	3/9/2009	ND<33	ND<26	ND<19	ND<19	ND<12	450,000	46	6,600	280	930	310	ND<47
SG4	3/9/2009	ND<39	ND<31	ND<23	ND<23	ND<15	300,000	150	7,100	400	1,400	460	ND<56
SG5	3/10/2009	20	ND<6.4	ND<4.7	ND<4.7	ND<3.0	8,000	49	710	50	170	45	ND<12
SG5 Lab Duplicate		NA	NA	NA	NA	NA	8,300	NA	NA	NA	NA	NA	NA
SG6	3/10/2009	ND<30	ND<23	ND<17	ND<17	ND<11	48,000	31	4,400	160	510	160	ND<43
ESL ¹		410	1,200	7,300	15,000	31	10,000	84	63,000	980	<i>m, p, o xylenes 21,000 combined</i>		None
ESL ²		1,400	4,100	20,000	41,000	100	29,000	280	180,000	3,300	<i>m, p, o xylenes 58,000 combined</i>		None

Abbreviations and Notes:

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-dichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

a = Laboratory Note: Exceeds Instrument Calibration Range.

b = 2-propanol used in field as leak detector.

ESL¹ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table E – Indoor Air and Soil Gas (Vapor Intrusion Concerns) Shallow Soil Gas Screening Levels for Residential Land Use.

ESL² = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table E – Indoor Air and Soil Gas (Vapor Intrusion Concerns) Shallow Soil Gas Screening Levels for Commercial/Industrial Land Use.

Values in bold exceed ESL¹**Values Underlined exceed ESL²**

All soil gas samples collected at 5-foot depth.

Results in micrograms per cubic meter (µg/m³), unless otherwise indicated.

Table 4
 Calculated Vapor Intrusion Risk and Hazard Summary
 Cal/EPA Screening-Level Model
 for Soil Gas Contamination (last modified 2/4/2009)

Mel Senna Brake Service
 2301 E 12th St.
 Oakland, CA

<u>Chemical</u>	Sample Location	Concentration (µg/m ³)	Residential Exposure		Commercial Exposure	
			Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
SG1						
Benzene		70	1.1E-06	2.9E-03	6.3E-07	1.7E-03
Toluene		9,700	NA	3.9E-02	NA	2.3E-02
Ethyl Benzene		380	4.6E-07	4.3E-04	2.7E-07	2.6E-04
m,p-xylene		1,100	NA	1.3E-02	NA	7.5E-03
o-xylene		310	NA	3.8E-03	NA	2.2E-03
TOTALS			1.6E-06	5.9E-02	9.0E-07	3.5E-02
SG2						
Benzene		140	2.1E-06	5.7E-03	1.3E-06	3.4E-03
Toluene		3,200	NA	1.3E-02	NA	7.7E-03
Ethyl Benzene		190	2.3E-07	2.1E-04	1.4E-07	1.3E-04
m,p-xylene		630	NA	7.2E-03	NA	4.3E-03
o-xylene		260	NA	3.2E-03	NA	1.9E-03
Tetrachloroethene		21	5.9E-08	6.6E-04	3.5E-08	3.9E-04
TOTALS			2.4E-06	3.0E-02	1.5E-06	1.8E-02
SG3						
Benzene		46	7.0E-07	1.9E-03	4.2E-07	1.1E-03
Toluene		6,600	NA	2.7E-02	NA	1.6E-02
Ethyl Benzene		280	3.4E-07	3.2E-04	2.0E-07	1.9E-04
m,p-xylene		930	NA	1.1E-02	NA	6.3E-03
o-xylene		310	NA	3.8E-03	NA	2.2E-03
TOTALS			1.0E-06	4.4E-02	6.2E-07	2.6E-02

NOTES

Used p-xylene CAS # for m,p-xylene risk and hazard calculation.
 Spreadsheet default values were used, except for vadose zone soil type SI was selected,
 soil gas sampling depth of 91.4 cm for SG1 through SG5, and
 25 years exposure duration and 250 days/year exposure frequency for commercial exposure scenario.

Table 4
 Calculated Vapor Intrusion Risk and Hazard Summary
 Cal/EPA Screening-Level Model
 for Soil Gas Contamination (last modified 2/4/2009)

Mel Senna Brake Service
 2301 E 12th St.
 Oakland, CA

<u>Chemical</u>	Sample Location	Concentration (µg/m ³)	Residential Exposure		Commercial Exposure	
			Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
SG4						
Benzene		150	2.3E-06	6.1E-03	1.4E-06	3.6E-03
Toluene		7,100	NA	2.9E-02	NA	1.7E-02
Ethyl Benzene		400	4.8E-07	4.5E-04	2.9E-07	2.7E-04
m,p-xylene		1,400	NA	1.6E-02	NA	9.5E-03
o-xylene		460	NA	5.6E-03	NA	3.3E-03
TOTALS			2.8E-06	5.7E-02	1.7E-06	3.4E-02
SG5						
Benzene		49	7.5E-07	2.0E-03	4.4E-07	1.2E-03
Toluene		710	NA	2.9E-03	NA	1.7E-03
Ethyl Benzene		50	6.0E-08	5.6E-05	3.6E-08	3.4E-05
m,p-xylene		170	NA	1.9E-03	NA	1.2E-03
o-xylene		45	NA	5.5E-04	NA	3.3E-04
Tetrachloroethene		20	5.6E-08	6.3E-04	3.3E-08	3.8E-04
TOTALS			8.7E-07	8.0E-03	5.1E-07	4.8E-03
SG6						
Benzene		31	5.4E-07	1.4E-03	3.2E-07	8.6E-04
Toluene		4,400	NA	1.3E-02	NA	7.7E-03
Ethyl Benzene		160	1.4E-07	1.3E-04	8.1E-08	7.6E-05
m,p-xylene		510	NA	4.1E-03	NA	2.5E-03
o-xylene		160	NA	1.4E-03	NA	8.4E-04
TOTALS			6.8E-07	2.0E-02	4.0E-07	1.2E-02

NOTES

Used p-xylene CAS # for m,p-xylene risk and hazard calculation.
 Spreadsheet default values were used, except for vadose zone soil type SI was selected,
 soil gas sampling depth of 91.4 cm for SG1 through SG5, and
 25 years exposure duration and 250 days/year exposure frequency for commercial exposure scenario.

Table 4
 Calculated Vapor Intrusion Risk and Hazard Summary
 Cal/EPA Screening-Level Model
 for Soil Gas Contamination (last modified 2/4/2009)

Mel Senna Brake Service
 2301 E 12th St.
 Oakland, CA

<u>Chemical</u>	Sample Location	Concentration ($\mu\text{g}/\text{m}^3$)	Residential Exposure		Commercial Exposure	
			Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
			Highest Detected			
Benzene	SG4	150	2.3E-06	6.1E-03	1.4E-06	3.6E-03
Toluene	SG1	9,700	NA	3.9E-02	NA	2.3E-02
Ethyl Benzene	SG4	400	4.8E-07	4.5E-04	2.9E-07	2.7E-04
m,p-xylene	SG4	1,400	NA	1.6E-02	NA	9.5E-03
o-xylene	SG4	460	NA	5.6E-03	NA	3.3E-03
Tetrachloroethene	SG2	21	5.9E-08	6.6E-04	3.5E-08	3.9E-04
TOTALS			2.8E-06	6.8E-02	1.7E-06	4.0E-02

NOTES

Used p-xylene CAS # for m,p-xylene risk and hazard calculation.
 Spreadsheet default values were used, except for vadose zone soil type SI was selected, soil gas sampling depth of 91.4 cm for SG1 through SG5, and 25 years exposure duration and 250 days/year exposure frequency for commercial exposure scenario.

FIGURES

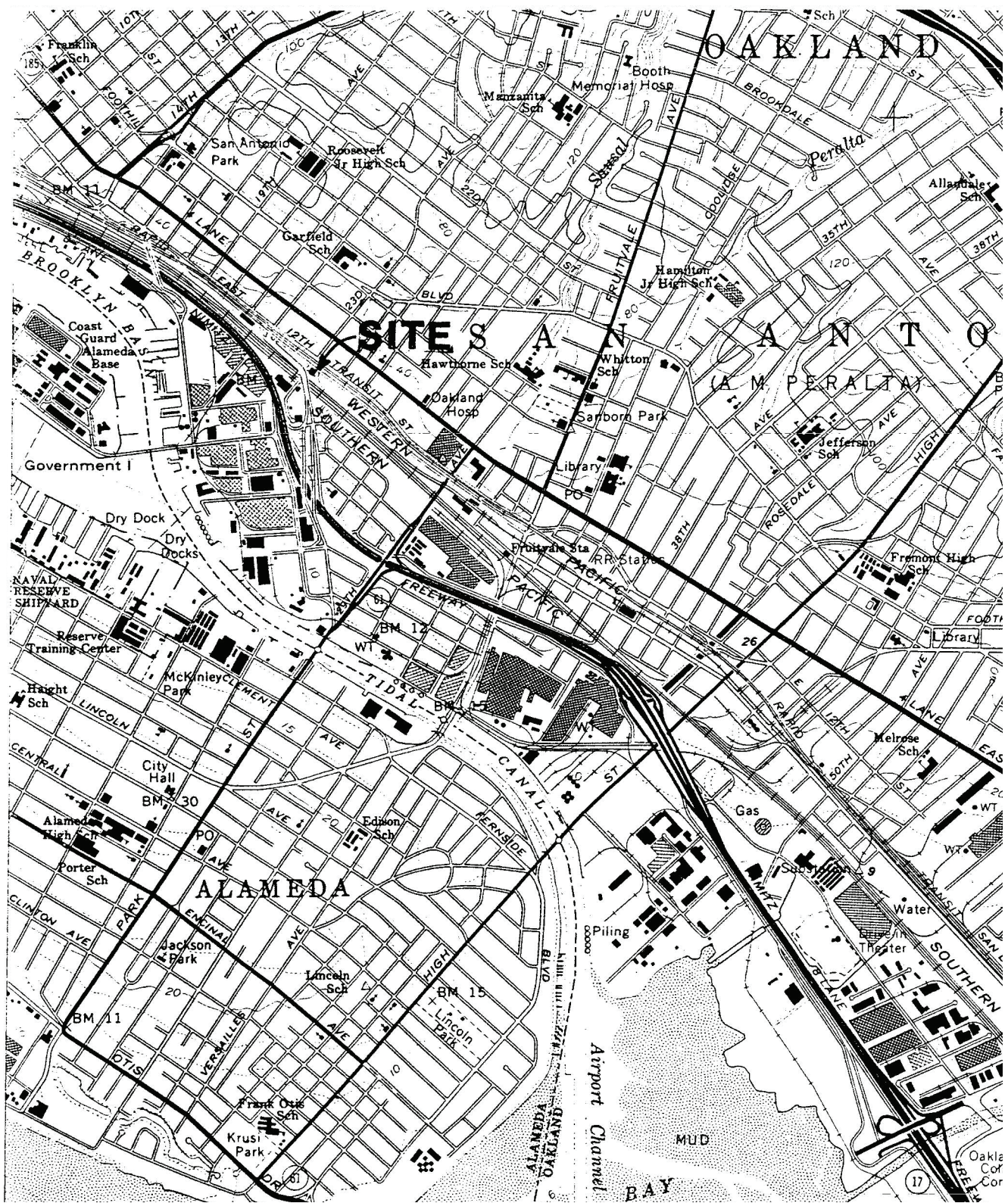
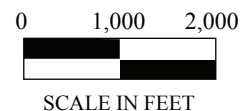


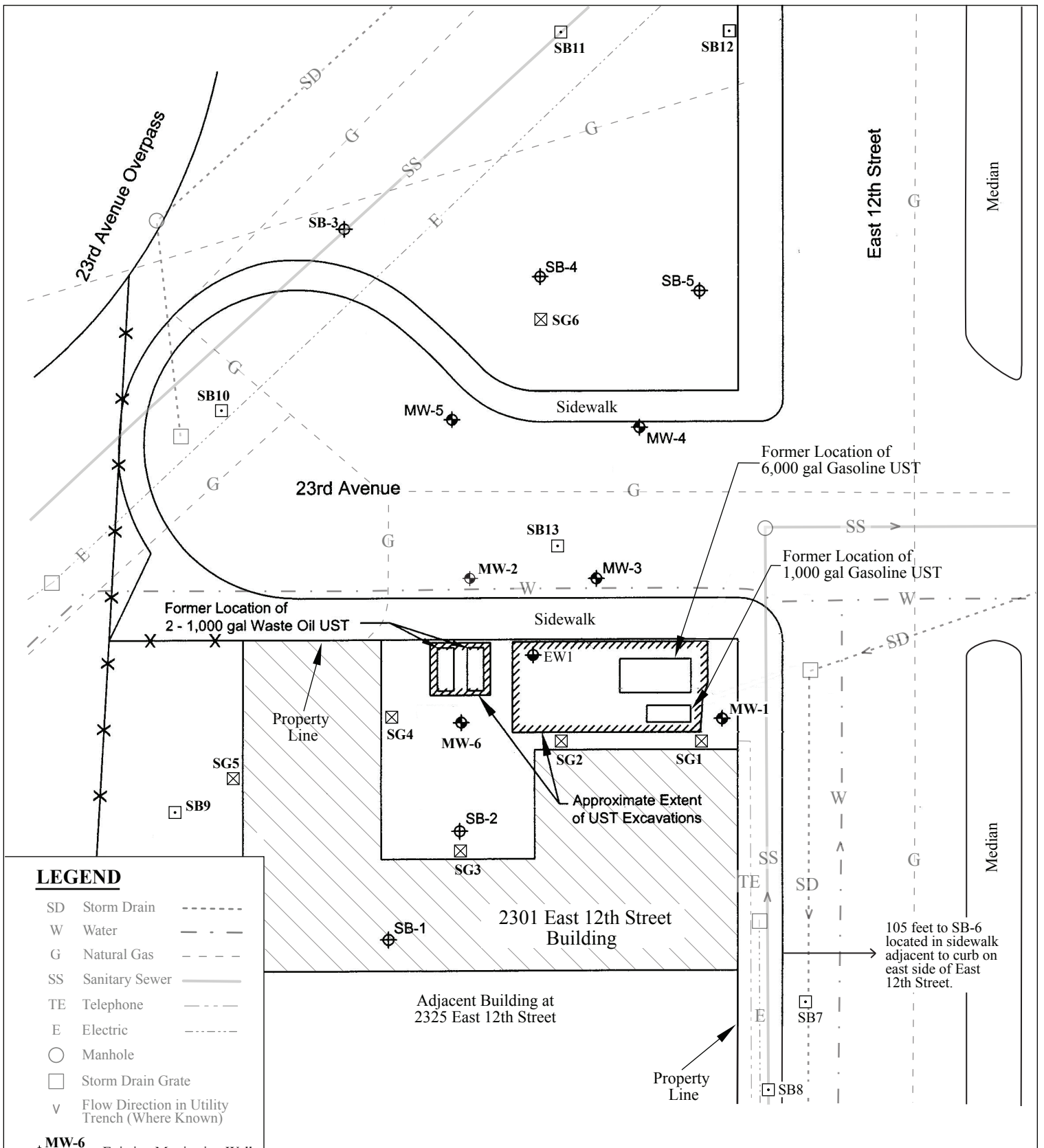
Figure 1
 Site Location Map
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 U.S. Geological Survey
 Oakland East, California
 7.5 Minute Quadrangle
 Photorevised 1980

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 Oakland, CA 94610





LEGEND

- SD Storm Drain -----
- W Water -----
- G Natural Gas -----
- SS Sanitary Sewer -----
- TE Telephone -----
- E Electric -----
- Manhole
- Storm Drain Grate
- ∨ Flow Direction in Utility Trench (Where Known)
- ◆ MW-6 Existing Monitoring Well
- ◆ EW-1 Existing Extraction Well
- ⊕ SB-6 Existing Soil Boring
- SB13 P&D Soil Boring
- ⊗ SG5 P&D Soil Gas Sample Location

Figure 2
 Site Vicinity Map Showing Underground Utility
 and Sample Collection Locations
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 Tetra Tech EM, Inc., Draft Summary
 Reports for Additional Site
 Characterization Work, dated 11/10/99

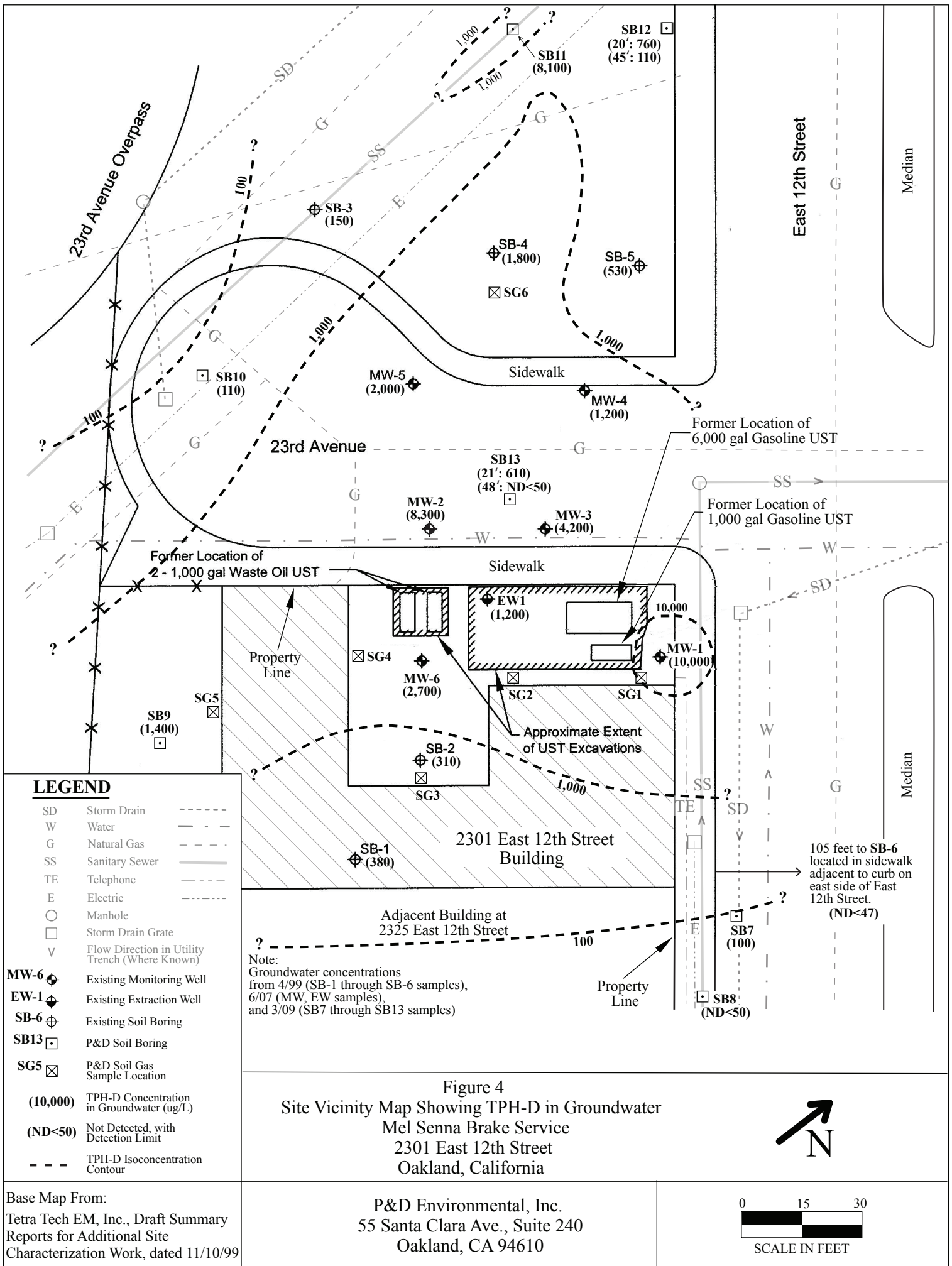
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Figure 3
Typical Soil Gas Sample Collection Manifold
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

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Oakland, CA 94610

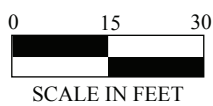


LEGEND

- SD Storm Drain -----
- W Water -----
- G Natural Gas -----
- SS Sanitary Sewer -----
- TE Telephone -----
- E Electric -----
- Manhole
- Storm Drain Grate
- ∇ Flow Direction in Utility Trench (Where Known)
- MW-6 ◊ Existing Monitoring Well
- EW-1 ◊ Existing Extraction Well
- SB-6 ◊ Existing Soil Boring
- SB13 □ P&D Soil Boring
- SG5 ⊠ P&D Soil Gas Sample Location
- (10,000) TPH-D Concentration in Groundwater (ug/L)
- (ND<50) Not Detected, with Detection Limit
- - - TPH-D Isoconcentration Contour

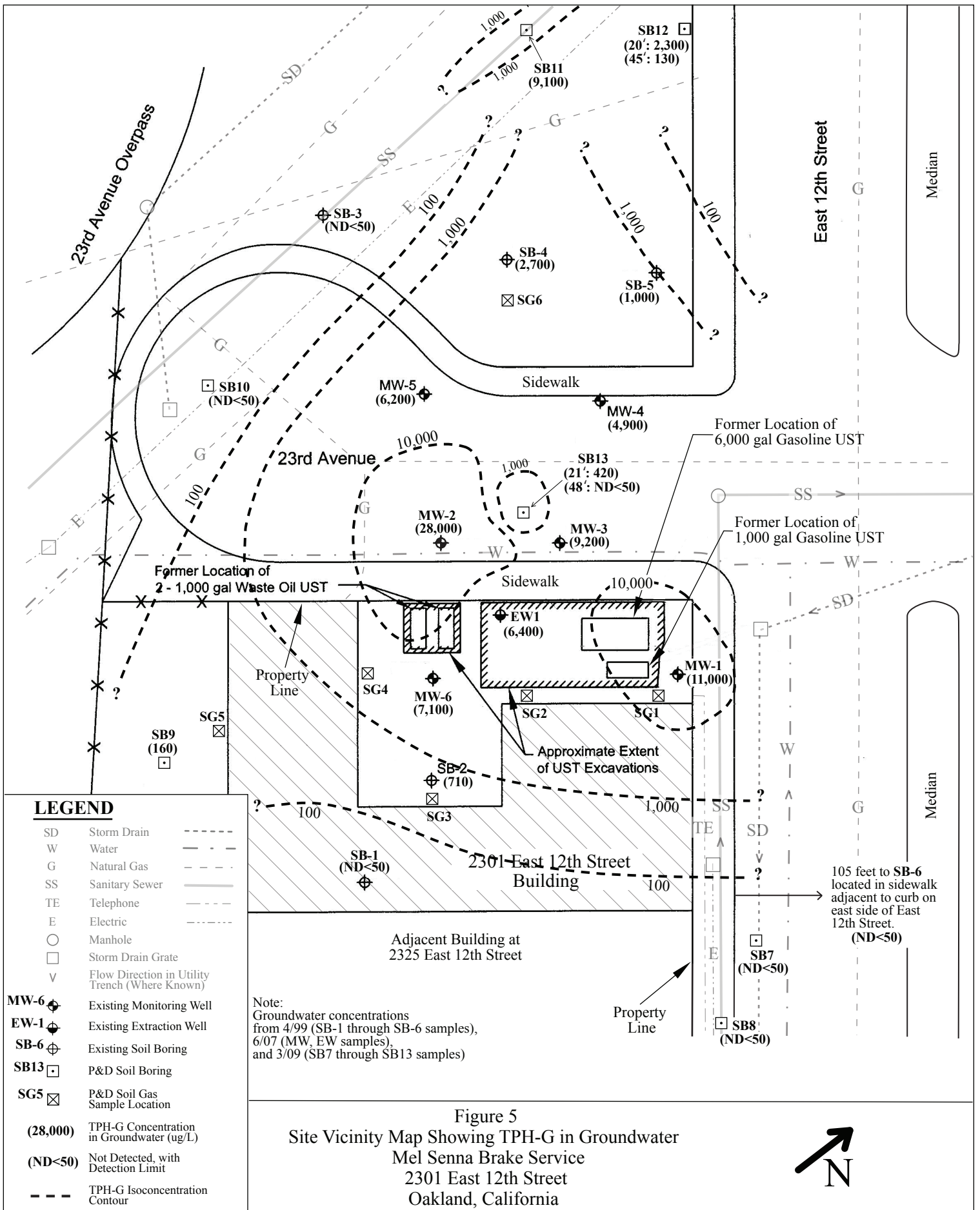
Note:
 Groundwater concentrations from 4/99 (SB-1 through SB-6 samples), 6/07 (MW, EW samples), and 3/09 (SB7 through SB13 samples)

Figure 4
 Site Vicinity Map Showing TPH-D in Groundwater
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

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LEGEND

- SD Storm Drain -----
- W Water -----
- G Natural Gas -----
- SS Sanitary Sewer -----
- TE Telephone -----
- E Electric -----
- Manhole
- Storm Drain Grate
- ∇ Flow Direction in Utility Trench (Where Known)
- MW-6 ◊ Existing Monitoring Well
- EW-1 ◊ Existing Extraction Well
- SB-6 ◊ Existing Soil Boring
- SB13 □ P&D Soil Boring
- SG5 ⊠ P&D Soil Gas Sample Location
- (28,000) TPH-G Concentration in Groundwater (ug/L)
- (ND<50) Not Detected, with Detection Limit
- - - TPH-G Isoconcentration Contour

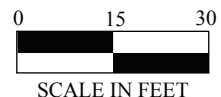
Note:
Groundwater concentrations from 4/99 (SB-1 through SB-6 samples), 6/07 (MW, EW samples), and 3/09 (SB7 through SB13 samples)

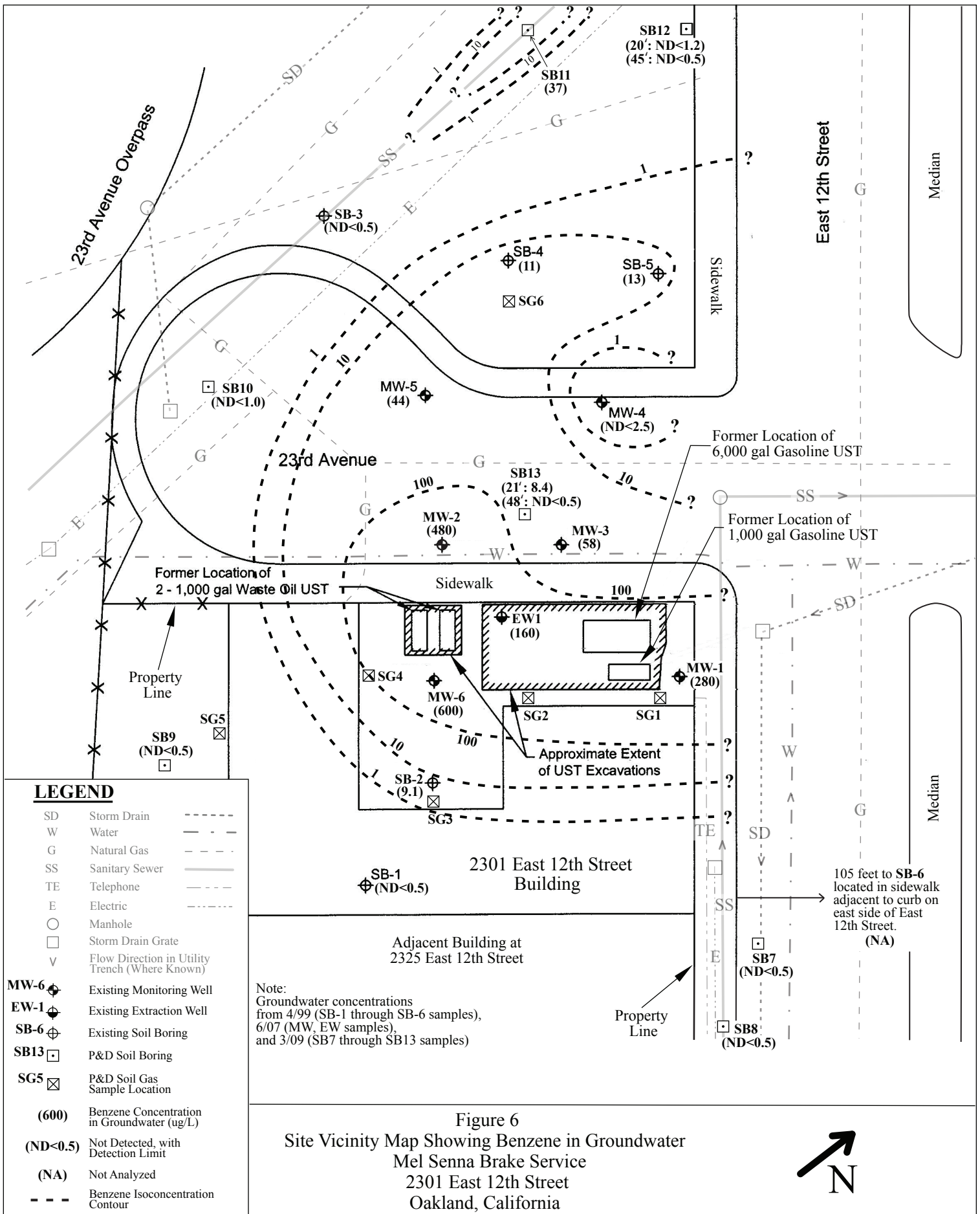
Figure 5
Site Vicinity Map Showing TPH-G in Groundwater
Mel Senna Brake Service
2301 East 12th Street
Oakland, California



Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

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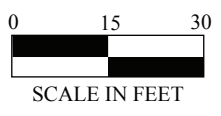


LEGEND

SD	Storm Drain	-----
W	Water	-----
G	Natural Gas	-----
SS	Sanitary Sewer	-----
TE	Telephone	-----
E	Electric	-----
○	Manhole	
□	Storm Drain Grate	
∇	Flow Direction in Utility Trench (Where Known)	
MW-6	Existing Monitoring Well	◆
EW-1	Existing Extraction Well	◆
SB-6	Existing Soil Boring	⊕
SB13	P&D Soil Boring	□
SG5	P&D Soil Gas Sample Location	⊗
(600)	Benzene Concentration in Groundwater (ug/L)	
(ND<0.5)	Not Detected, with Detection Limit	
(NA)	Not Analyzed	
- - -	Benzene Isoconcentration Contour	

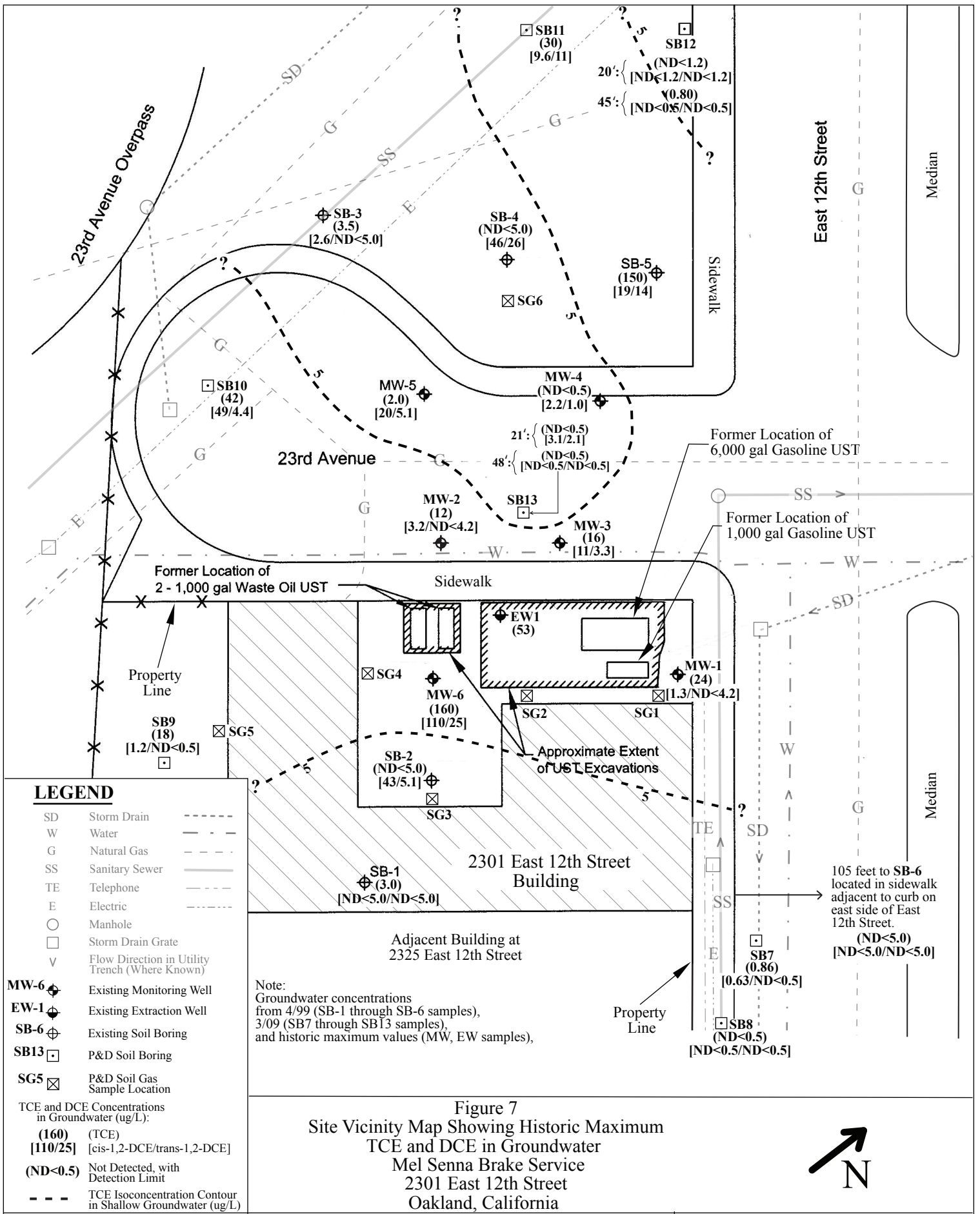
Note:
 Groundwater concentrations from 4/99 (SB-1 through SB-6 samples), 6/07 (MW, EW samples), and 3/09 (SB7 through SB13 samples)

Figure 6
 Site Vicinity Map Showing Benzene in Groundwater
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

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LEGEND

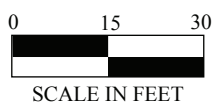
- SD Storm Drain -----
- W Water -----
- G Natural Gas -----
- SS Sanitary Sewer -----
- TE Telephone -----
- E Electric -----
- Manhole
- Storm Drain Grate
- ∇ Flow Direction in Utility Trench (Where Known)
- MW-6 Existing Monitoring Well
- EW-1 Existing Extraction Well
- SB-6 Existing Soil Boring
- SB13 P&D Soil Boring
- SG5 P&D Soil Gas Sample Location
- TCE and DCE Concentrations in Groundwater (ug/L):
- (160) (TCE)
- [110/25] [cis-1,2-DCE/trans-1,2-DCE]
- (ND<0.5) Not Detected, with Detection Limit
- - - TCE Isoconcentration Contour in Shallow Groundwater (ug/L)

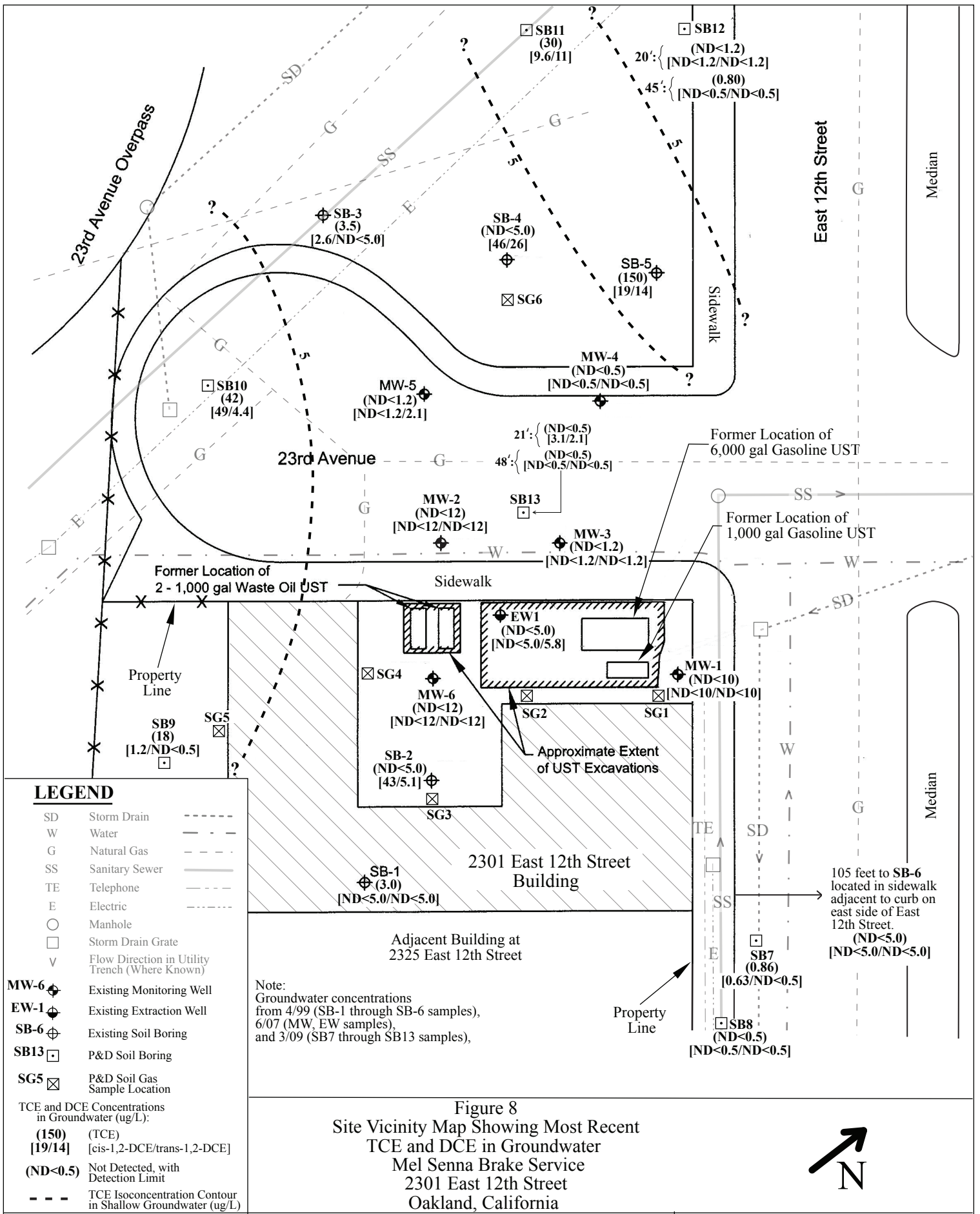
Note:
Groundwater concentrations from 4/99 (SB-1 through SB-6 samples), 3/09 (SB7 through SB13 samples), and historic maximum values (MW, EW samples),

Figure 7
Site Vicinity Map Showing Historic Maximum TCE and DCE in Groundwater Mel Senna Brake Service 2301 East 12th Street Oakland, California

Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

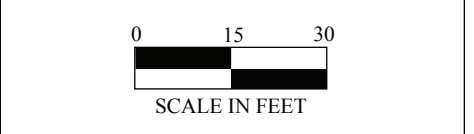
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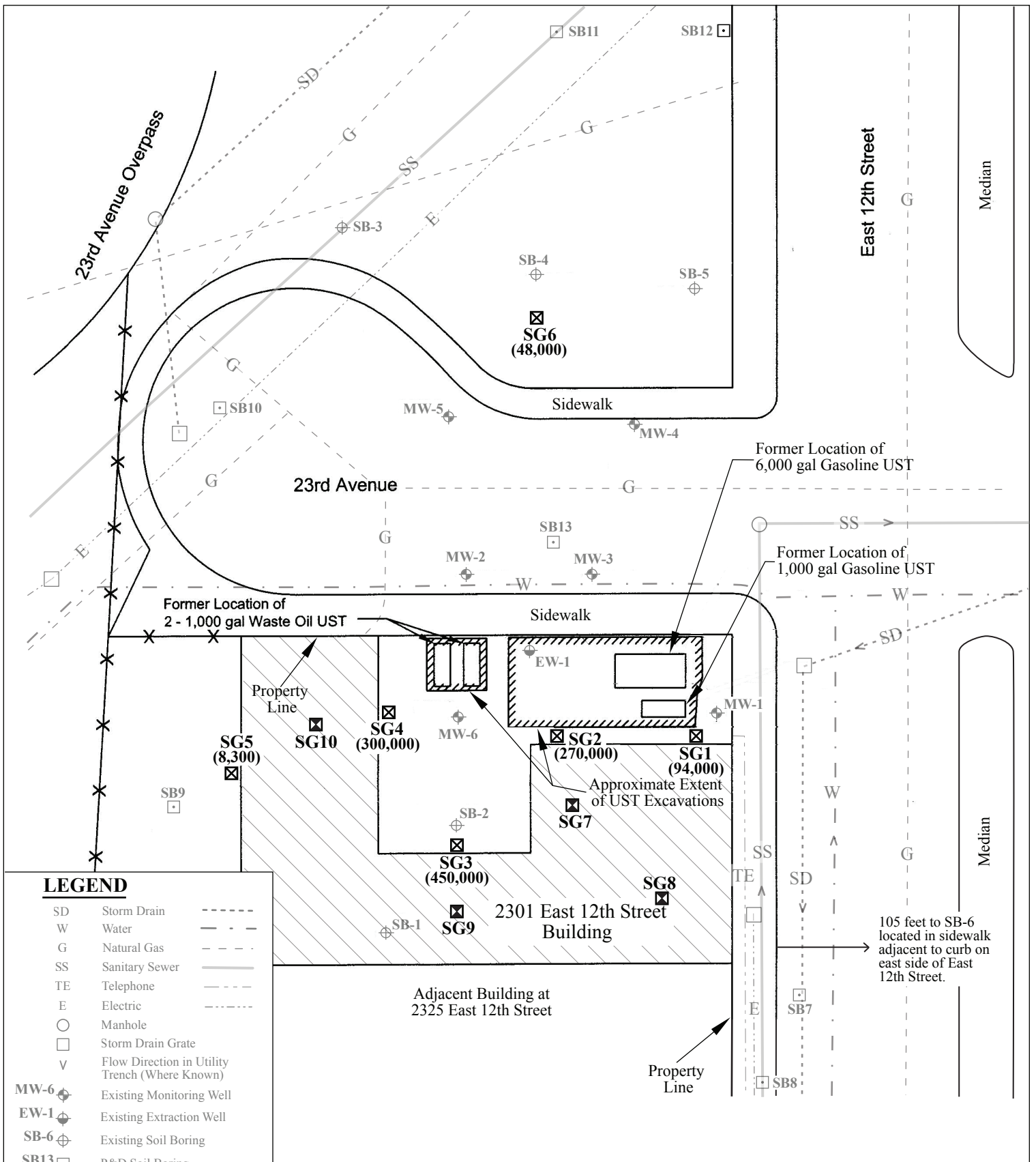




Base Map From:
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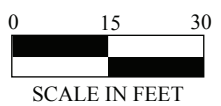




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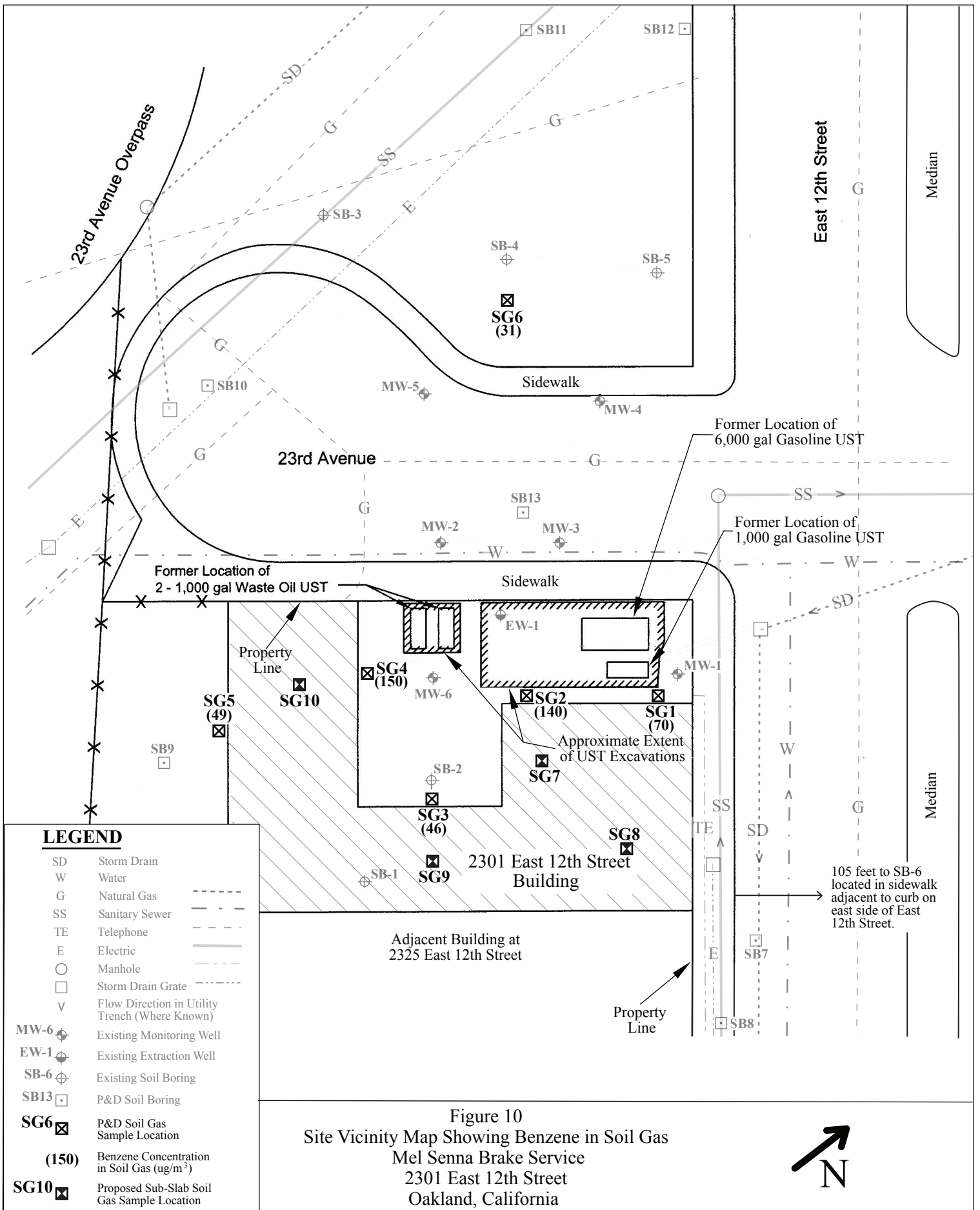
- SD Storm Drain - - - - -
- W Water - - - - -
- G Natural Gas - - - - -
- SS Sanitary Sewer - - - - -
- TE Telephone - - - - -
- E Electric - - - - -
- Manhole
- Storm Drain Grate
- ∨ Flow Direction in Utility Trench (Where Known)
- MW-6 Existing Monitoring Well
- EW-1 Existing Extraction Well
- SB-6 Existing Soil Boring
- SB13 P&D Soil Boring
- SG6 P&D Soil Gas Sample Location
- (450,000) TPH-G Concentration in Soil Gas (ug/m³)
- SG10 Proposed Sub-Slab Soil Gas Sample Location

Figure 9
 Site Vicinity Map Showing TPH-G in Soil Gas
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 Tetra Tech EM, Inc., Draft Summary
 Reports for Additional Site
 Characterization Work, dated 11/10/99

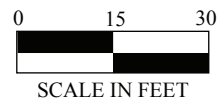
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LEGEND

- SD Storm Drain
- W Water
- G Natural Gas
- SS Sanitary Sewer
- TE Telephone
- E Electric
- Manhole
- Storm Drain Grate
- ∇ Flow Direction in Utility Trench (Where Known)
- MW-6 Existing Monitoring Well
- EW-1 Existing Extraction Well
- SB-6 Existing Soil Boring
- SB13 P&D Soil Boring
- SG6 P&D Soil Gas Sample Location
- (150) Benzene Concentration in Soil Gas (ug/m³)
- SG10 Proposed Sub-Slab Soil Gas Sample Location

Figure 10
 Site Vicinity Map Showing Benzene in Soil Gas
 Mel Senna Brake Service
 2301 East 12th Street
 Oakland, California



Base Map From:
 Tetra Tech EM, Inc., Draft Summary
 Reports for Additional Site
 Characterization Work, dated 11/10/99

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APPENDIX A

Soil Boring Logs

BORING NO.: SB7		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: In parking lane 5 ft. from curb, ~7 ft. southeast of 2301 E. 12th St.				ELEVATION AND DATUM: None			
DRILLING AGENCY: Gregg Drilling		DRILLER: Rob/Antonio		DATE & TIME STARTED: 3/5/09 1040		DATE & TIME FINISHED: 3/5/09 1240	
DRILLING EQUIPMENT: Hand Auger				LOGGED BY: SF		CHECKED BY:	
COMPLETION DEPTH: 8.2 Feet		BEDROCK DEPTH: Not Encountered					
FIRST WATER DEPTH: 8.0 Feet		NO. OF SAMPLES: 1 Water					
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
	0.0 to 0.4 ft. Asphalt and base rock.		No Well Constructed		0	Borehole hand augered to 8.2 ft. with 3-in. O.D. auger.	
	0.4 to 6.0 ft. Dark brown clay (CL); medium stiff, moist to wet, with orange mottling. No Petroleum Hydrocarbon (PHC) or Solvent odor.	CL			0		
5	5.0 ft. With gravel to 0.25-in. diameter, and yellow and red silty inclusions.				0		
	6.0 to 8.2 ft. Dark brown clay (CL); medium stiff, wet; heterogeneous, with abundant fine to coarse sand, angular and rounded gravel to 0.25 in. diameter, and yellow and red silty inclusions. No PHC or Solvent odor.	CL ▼ ▽			0		
	8.2 ft. Drilling refusal on large rock or box.				0	Water encountered at 8.0 ft. during drilling.	
10						Borehole terminated at 8.2 ft. on 3/5/09.	
						Water level measured at 7.0 ft. at 1240. Water sample SB7-W collected at 1300; slight PHC odor and no sheen on sample.	
15						Borehole grouted on 3/5/09 using a tremie pipe and neat cement grout.	
20							
25							
30							

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BORING NO.: SB8		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: On sidewalk ~3 ft. from curb, 20 ft. southsoutheast of SB7			ELEVATION AND DATUM: None				
DRILLING AGENCY: Gregg Drilling		DRILLER: Rob/Antonio		DATE & TIME STARTED: 3/5/09 1310		DATE & TIME FINISHED: 3/5/09 1410	
DRILLING EQUIPMENT: Hand Auger				LOGGED BY: SF		CHECKED BY:	
COMPLETION DEPTH: 7.0 Feet		BEDROCK DEPTH: Not Encountered					
FIRST WATER DEPTH: 7.0 Feet		NO. OF SAMPLES: 1 Water					
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
5	0.0 to 0.5 ft. Concrete and base rock.		No Well Constructed		0	Borehole hand augered to 7.0 ft. with 3-in. O.D. auger.	
	0.5 to 2.0 ft. Brown sand (FILL); loose, moist to wet, No Petroleum Hydrocarbon (PHC) or Solvent odor.	FILL		0			
	2.0 to 7.0 ft. Dark brown clay (CL); medium stiff, moist to wet, with orange mottling, and inclusions of fine and medium sand. No PHC or Solvent odor.			0			
	5.5 to 7.0 ft. Heterogeneous, with angular and rounded gravel to 0.25-in. diameter, yellow and red silty inclusions, and disintegrating brick fragments	CL		0			
	7.0 ft. Drilling refusal on large rock or box.	▼			0	Water encountered at 7.0 ft. during drilling.	
10						Borehole terminated at 7.0 ft. on 3/5/09. Water level measured at 6.5 ft. at 1410. Water sample SB8-W collected at 1415; no odor or sheen on sample.	
15						Borehole grouted on 3/5/09 using a tremie pipe and neat cement grout.	
20							
25							
30							

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BORING NO.: SB9		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: Loading dock area			ELEVATION AND DATUM: None				
DRILLING AGENCY: Vironex, Inc.		DRILLER: Tim/Manuel		DATE & TIME STARTED:	DATE & TIME FINISHED:		
DRILLING EQUIPMENT: Geoprobe 6600				3/10/09 1430	3/10/09 1448		
COMPLETION DEPTH: 20.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:		CHECKED BY:	
FIRST WATER DEPTH: 14.5 Feet		NO. OF SAMPLES: 1 Water		MLD			
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
	0.0 to 1.0 ft. Asphalt (0.3 ft.) and road base.		No Well Constructed		0	Borehole continuously cored using a 5-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The sampler was lined with 5-foot-long 1.5-inch O.D. transparent PVC tubes.	
5	1.0 to 11.0 ft. Dark brown silty clay (CL); stiff, moist, with trace gravel to 0.25-in. diameter. No Petroleum Hydrocarbon (PHC) odor.	CL			0	0 to 5 ft. 3.0 ft. recovery	
10		▼				5 to 10 ft. 3.4 ft. recovery	
	11.0 to 12.5 ft. Dark brown clayey sand (SC); medium dense, moist, with gravel to 0.5-in. diameter. No PHC odor.	SC			0		
	12.5 to 14.5 ft. Dark brown sandy clay (CL); medium stiff, moist, with gravel to 0.5-in. diameter. No PHC odor.	CL			0	10 to 15 ft. 4.6 ft. recovery	
15		▼					
	14.5 to 20.0 ft. Dark brown clayey sand (SC); very loose, wet, with interbedded sandy silt. No PHC odor.	SC			0	15 to 20 ft. 4.8 ft. recovery	
20						Water encountered during drilling at 14.5 ft.	
25						Borehole terminated at 20.0 ft. on 3/10/09. Temporary 1-in. diam. slotted PVC casing placed in borehole. Water level measured at 15.3 ft. at 1450, and at 8.6 ft. at 1500. Water sample SB9-W collected at 1510; no odor or sheen on sample.	
30						Borehole grouted on 3/10/09 using a tremie pipe and neat cement grout.	

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BORING NO.: SB10		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland		
BORING LOCATION: In 23rd Avenue cul-de-sac				ELEVATION AND DATUM: None		
DRILLING AGENCY: Vironex, Inc.		DRILLER: Tim/Manuel		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6600				3/10/09 1200	3/10/09 1225	
COMPLETION DEPTH: 20.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:		CHECKED BY:
FIRST WATER DEPTH: Not Encountered		NO. OF SAMPLES: 1 Water		MLD		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	0.0 to 1.0 ft. Asphalt (0.3 ft.) and road base.		No Well Constructed		0	Borehole continuously cored using a 5-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The sampler was lined with 5-foot-long 1.5-inch O.D. transparent PVC tubes.
5	1.0 to 11.0 ft. Dark gray clay (CL); stiff, moist, with trace gravel to 0.25-in. diameter. No Petroleum Hydrocarbon (PHC) odor.	CL			0	0 to 5 ft. 3.5 ft. recovery
10	7.0 to 11.0 ft. Color change to dark brown, with bluish green staining.				0	5 to 10 ft. 4.6 ft. recovery
15	11.0 to 16.0 ft. Brown clayey silt (ML); stiff, moist, with black mottling. No PHC odor.	ML			0	10 to 15 ft. 4.5 ft. recovery
	16.0 to 19.0 ft. Dark brown sandy clay (CL); medium stiff, moist, with black mottling. No PHC odor.	CL			0	15 to 20 ft. 4.6 ft. recovery
20	19.0 to 20.0 ft. Reddish brown clayey gravel (GC); moist, with gravel to 0.5-in. diameter. No PHC odor.	GC			0	Water not encountered during drilling.
25						Borehole terminated at 20.0 ft. on 3/10/09. Temporary 1-in. diam. slotted PVC casing placed in borehole. No water in borehole to 20 ft. depth. Borehole left open overnight due to slow recharge. Water level measured on 3/11/09 at 18.3 ft. at 0830. Water sample SB10-W collected at 0840; no odor or sheen on sample.
30						Borehole grouted on 3/11/09 using a tremie pipe and neat cement grout.

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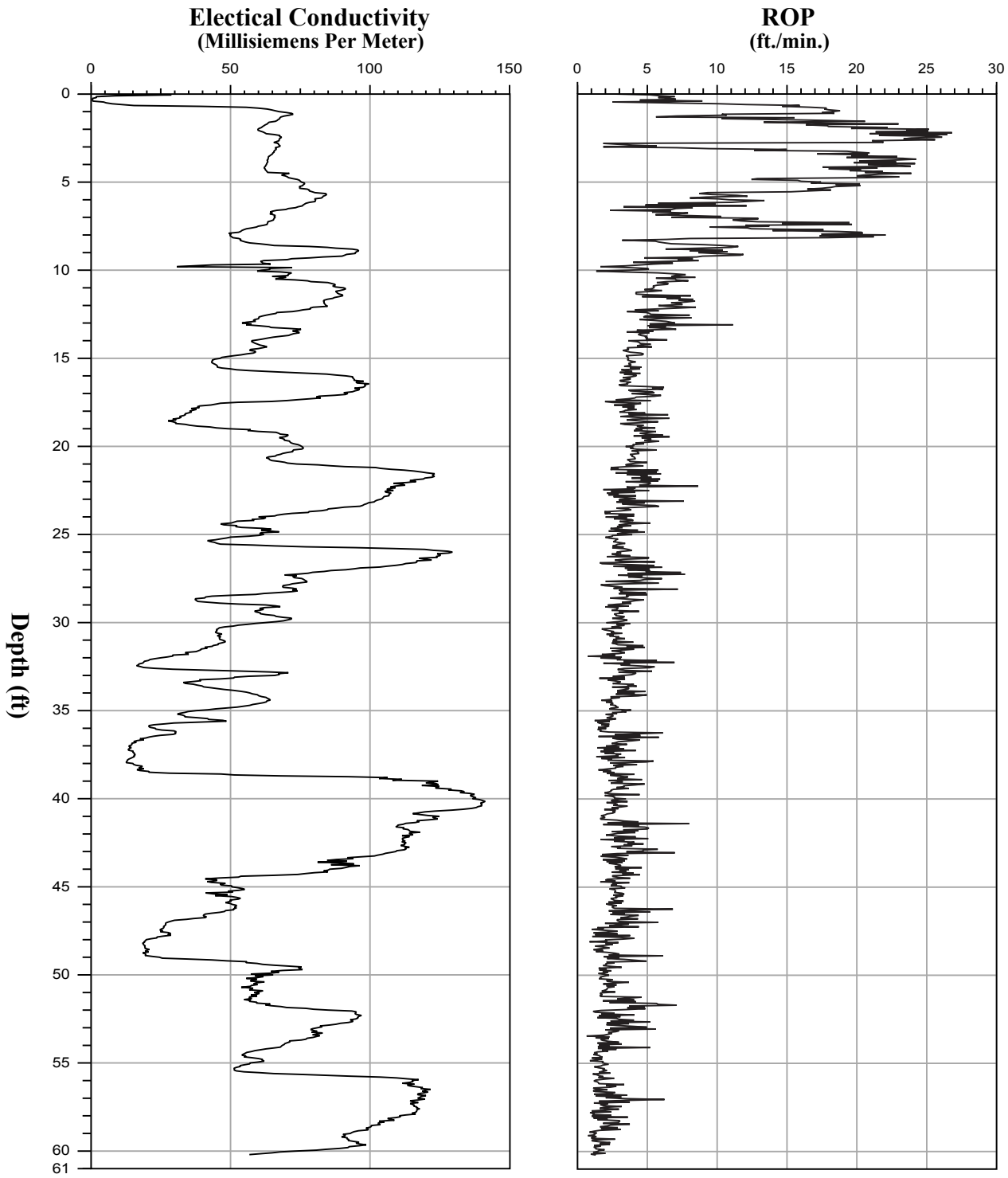
BORING NO.: SB11		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: 40 feet west of SB12		ELEVATION AND DATUM: None					
DRILLING AGENCY: Vironex, Inc.		DRILLER: Brian/Steve		DATE & TIME STARTED:	DATE & TIME FINISHED:		
DRILLING EQUIPMENT: Hand Auger				3/11/09 1150	3/11/09 1400		
COMPLETION DEPTH: 12.5 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:		
FIRST WATER DEPTH: 10.0 Feet		NO. OF SAMPLES: 1 Soil, 1 Water		MLD/SJC			
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
	0.0 to 1.0 ft. Dark brown sandy silty clay (FILL); stiff, moist, with brick fragments. No Petroleum Hydrocarbon (PHC) odor.		No Well Constructed		0	Borehole hand augered to 12.5 ft. with 3.5-in. O.D. auger.	
5	1.0 to 12.0 ft. Dark brown clay (CL); stiff, moist, mottled with light brown silt, with trace gravel to 0.25-in. diameter. PHC odor.	CL			0		
10	7.5 to 12.0 ft. Gray soil discoloration, with moderate to strong PHC odor.	X	SB11-8.5		142 1,014 765 405 730 250		
	12.0 to 12.5 ft. Gray clay (CL); stiff, wet, with some sand, and with trace gravel to 0.25-in. diameter. No PHC odor.	CL			448 106		
15						Borehole terminated at 12.5 ft. on 3/11/09.	
20						Water sample SB11-W collected at 1405; PHC odor and sheen on sample.	
25						Borehole grouted on 3/11/09 using a tremie pipe and neat cement grout.	
30							

BORING NO.: SB13		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: Between MW-2 and MW-3 in 23rd Ave., 12 ft. from sidewalk				ELEVATION AND DATUM: None			
DRILLING AGENCY: Vironex, Inc.		DRILLER: Tim/Manuel		DATE & TIME STARTED: 3/10/09 1050		DATE & TIME FINISHED: 3/10/09 1500	
DRILLING EQUIPMENT: Geoprobe 6600				LOGGED BY: MLD		CHECKED BY:	
COMPLETION DEPTH: 60.0 Feet		BEDROCK DEPTH: Not Encountered					
FIRST WATER DEPTH: 21.0 Feet		NO. OF SAMPLES: 3 Soil, 2 Water					
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
5	0.0 to 1.0 ft. Asphalt (0.3 ft.) and base rock.		No Well Constructed		0	On 3/9/09, a soil conductivity probe was pushed to 60.0 ft. for electrical conductivity logging. Boring grouted on 3/10/09 using a tremie pipe and neat cement grout.	
	1.0 to 11.0 ft. Dark grayish brown clay (CL); stiff, moist, with orange mottling. No Petroleum Hydrocarbon (PHC) odor.	CL			0		
10	8.0 to 10.0 ft. With strong PHC odor, bluish green discoloration, and gravel to 0.25-in. diameter.				75	Beginning at 1050 on 3/10/09, at a location approximately 4 feet west of the soil conductivity probe hole, a borehole was continuously cored from 0.0 to 60.0 ft. using a 5-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The sampler was lined with 4.8-foot long 1.5-inch O.D. transparent PVC tubes. 0 to 5 ft. 4.2 ft. recovery	
	10.0 to 11.0 ft. With strong PHC odor, and trace gravel to 0.25-in. diameter.	X	SB13-9.5		95		
15	11.0 to 19.0 ft. Bluish green clayey silt (ML); stiff, moist, with orange mottling. Strong PHC odor.					5 to 10 ft. 4.6 ft. recovery 10 to 15 ft. 4.8 ft. recovery	
		X	SB13-13.5	ML	145		
20	18.0 to 19.0 ft. Color change to olive-green, with little or no clay.					Water encountered during continuous core drilling at 21.0 ft.	
	19.0 to 19.5 ft. Gray fine sand (SP); medium dense, moist. Slight PHC odor.						
25	19.5 to 20.0 ft. Reddish brown clayey sand (SC); medium dense, moist, with gravel to 0.25-in. diameter. No PHC odor.					Continuous core drilling temporarily stopped at 25.0 ft. and temporary 1-in. diam. slotted PVC casing placed in borehole. Water level measured at 15.7 ft. at 1341, and at 15.4 ft. at 1351. Water sample SB13-W collected at 1425; slight odor, no sheen on sample. Following groundwater sample collection continuous core drilling resumed.	
	20.0 to 21.5 ft. Gray clay (CL); soft, wet to saturated. Slight PHC odor.						
30	21.5 to 25.5 ft. Grayish brown clayey sand (SC); very loose, saturated. Slight PHC odor.					20 to 25 ft. 2.0 ft. recovery	
	25.5 to 26.5 ft. Reddish brown sandy silt (ML); medium stiff, saturated, with black mottling. No PHC odor.						
30	26.5 to 28.5 ft. Grayish brown sandy clay (CL); medium stiff, moist, with abundant gravel to 0.25-in. diameter. No PHC odor.					25 to 30 ft. 4.6 ft. recovery	
	28.5 to 30.0 ft. Reddish brown clayey sand (SC); medium dense, moist, with gravel to 0.25-in. diameter. No PHC odor.						

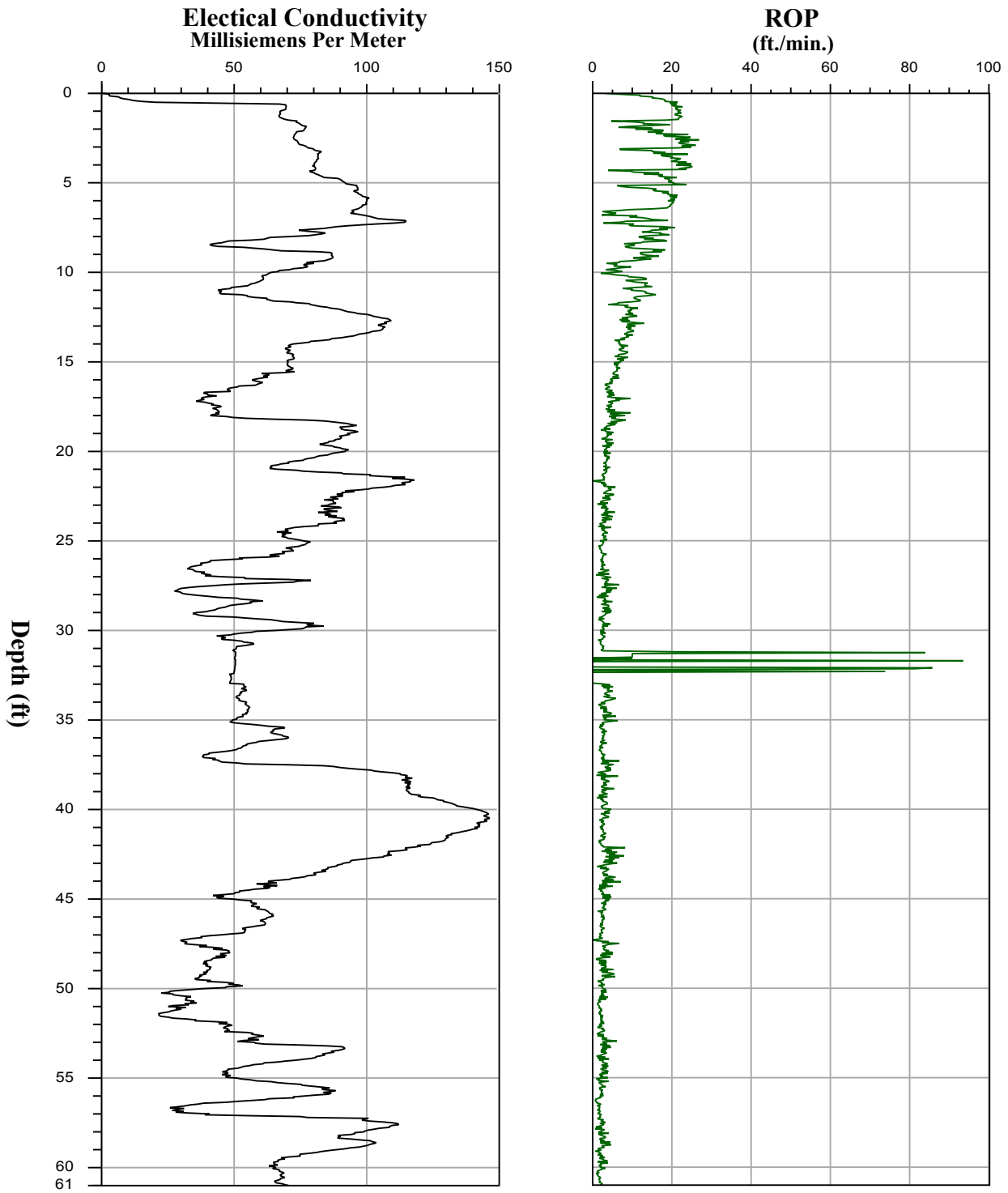
BORING NO.: SB13		PROJECT NO.: 0404		PROJECT NAME: Mel Senna Brake Service, 2301 E. 12th Steet, Oakland			
BORING LOCATION: Between MW-2 and MW-3 in 23rd Ave., 12 ft. from sidewalk			ELEVATION AND DATUM: None				
DRILLING AGENCY: Vironex, Inc.		DRILLER: Tim/Manuel		DATE & TIME STARTED:	DATE & TIME FINISHED:		
DRILLING EQUIPMENT: Geoprobe 6600				3/10/09 1050	3/10/09 1500		
COMPLETION DEPTH: 60.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:		CHECKED BY:	
FIRST WATER DEPTH: 21.0 Feet		NO. OF SAMPLES: 3 Soil, 2 Water		MLD			
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
35	30.0 to 34.0 ft. Grayish brown clay (CL); soft, wet, with trace gravel to 0.25-in. diameter. No PHC odor.	CL	No Well Constructed		0	30 to 35 ft. 4.2 ft. recovery	
	34.0 to 35.0 ft. Reddish brown clayey fine sand (SC); medium dense, moist. No PHC odor.	SC				35 to 40 ft. 3.8 ft. recovery	
40	35.0 to 42.5 ft. Grayish brown sandy clay (CL); medium stiff, moist, with trace gravel to 0.25-in. diameter. No PHC odor.	CL			0	40 to 45 ft. 4.0 ft. recovery	
	40.5 ft. Soft, saturated.					45 to 50 ft. 3.8 ft. recovery	
	42.5 to 48.0 ft. Olive-green silty clay (CL); stiff, moist, with black mottling No PHC odor.					50 to 55 ft. 4.6 ft. recovery	
45	45.0 to 48.0 ft. With fine sand.	CL			0	55 to 60 ft. 4.3 ft. recovery	
	48.0 to 53.0 ft. Orange brown gravelly clayey sand (SC); medium dense, moist to wet, with gravel to 0.25-in. diameter, and sandy clay interbeds. No PHC odor.					SC	On 3/10/09, at a location approximately 4 ft. south of the continuously cored borehole, a Hydropunch was pushed to 52.0 ft. Hydropunch seal integrity was confirmed using an electrical water level indicator. The Hydropunch drilling rods were then retracted to 48.0 ft.
50	53.0 to 56.5 ft. Olive-brown clay (CL); stiff, moist, with black mottling No PHC odor.	CL			0	The water level in the Hydropunch rods was measured at 46.7 ft. at 1325, and at 10.4 ft. at 1335. Water sample SB13-48W collected at 1340; no odor or sheen on sample. Hydropunch sample collected while waiting for water to enter temporary PVC pipe in continuously cored borehole.	
	56.5 to 58.0 ft. Brown clayey coarse sand (SC); loose, saturated, with gravel to 0.25-in. diameter. No PHC odor.					SC	Hydropunch borehole grouted on 3/10/09 using a tremie pipe and neat cement grout.
55	58.0 to 60.0 ft. Olive-brown clay (CL); stiff, moist. No PHC odor.	CL			0	Continuously cored borehole terminated at 60.0 ft. on 3/10/09. Borehole grouted using a tremie pipe and neat cement grout.	
60							

APPENDIX B

Soil Conductivity Logs



Soil Conductivity Log of Borehole SB12



Soil Conductivity Log of Borehole SB13

APPENDIX C

Soil Gas Purge Calculation and Field Data Sheets

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

$V_{\text{tubing}} = \pi \times (r \times r) \times h$, where $\pi = 3.14$, $r = 0.187 \text{ in./2}$, and $h = 4 \text{ ft}$.

$V_{\text{tubing}} = 3.14 \times (0.0935 \times 0.0935) \times (4 \text{ ft.} \times 12 \text{ in./ft.}) = 1.32 \text{ cubic inches.}$

The sand interval volume is calculated as follows:

$V_{\text{sand interval}} = \pi \times (r \times r) \times h \times \text{porosity}$, where $\pi = 3.14$, $r = 1.0 \text{ in./2}$, $h = 8 \text{ in.}$, and $\text{porosity} = 0.35$

$V_{\text{sand interval}} = 3.14 \times (0.5 \times 0.5) \times 8 \times 0.35 = 2.20 \text{ cubic inches.}$

The total volume for one purge volume is $V_{\text{tubing}} + V_{\text{sand interval}}$, where

$V_{\text{total}} = 1.32 \text{ cubic inches} + 2.20 \text{ cubic inches} = 3.52 \text{ cubic inches.}$

To convert to cubic centimeters:

$V_{\text{total}} = 3.52 \text{ cubic inches} \times 16.39 \text{ cubic centimeters/cubic inches} = 57.6 \text{ cubic centimeters.}$

The total volume to be purged is 3 purge volumes.

$V_{\text{purge total}} = 57.6 \text{ cubic centimeters} \times 3 = 173 \text{ cubic centimeters.}$

The flow controller has a nominal flow rate of 200 cubic centimeters per minute.

The purge time is calculated as follows:

$T_{\text{purge}} = 173 \text{ cubic centimeters} / 200 \text{ cubic centimeters per minute} = 0.86 \text{ minutes.}$

Converting the purge time to seconds, $0.86 \text{ minutes} \times 60 \text{ seconds/minute} = 52 \text{ seconds.}$

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

$V_{\text{tubing}} = \pi \times (r \times r) \times h$, where $\pi = 3.14$, $r = 0.187 \text{ in./2}$, and $h = 7 \text{ ft}$.

$$V_{\text{tubing}} = 3.14 \times (0.0935 \times 0.0935) \times (7 \text{ ft.} \times 12 \text{ in./ft.}) = 2.31 \text{ cubic inches.}$$

The sand interval volume is calculated as follows:

$V_{\text{sand interval}} = \pi \times (r \times r) \times h \times \text{porosity}$, where $\pi = 3.14$, $r = 1.0 \text{ in./2}$, $h = 8 \text{ in.}$, and $\text{porosity} = 0.35$

$$V_{\text{sand interval}} = 3.14 \times (0.5 \times 0.5) \times 8 \times 0.35 = 2.20 \text{ cubic inches.}$$

The total volume for one purge volume is $V_{\text{tubing}} + V_{\text{sand interval}}$, where

$$V_{\text{total}} = 2.31 \text{ cubic inches} + 2.20 \text{ cubic inches} = 4.51 \text{ cubic inches.}$$

To convert to cubic centimeters:

$$V_{\text{total}} = 4.51 \text{ cubic inches} \times 16.39 \text{ cubic centimeters/cubic inches} = 73.9 \text{ cubic centimeters.}$$

The total volume to be purged is 3 purge volumes.

$$V_{\text{purge total}} = 73.9 \text{ cubic centimeters} \times 3 = 222 \text{ cubic centimeters.}$$

The flow controller has a nominal flow rate of 200 cubic centimeters per minute.

The purge time is calculated as follows:

$$T_{\text{purge}} = 222 \text{ cubic centimeters} / 200 \text{ cubic centimeters per minute} = 1.11 \text{ minutes.}$$

$$\text{Converting the purge time to seconds, } 1.11 \text{ minutes} \times 60 \text{ seconds/minute} = 67 \text{ seconds.}$$

SOIL GAS SAMPLING DATA SHEET														
Address <u>2301 E 12th STREET OAKLAND</u>														
Job # <u>8404 RH</u> Probe Method (check one)														
Date <u>3/11/04</u> <input type="radio"/> PRT														
P&D Sampler <u>ESD</u> <input checked="" type="checkbox"/> Temp Well														
Drilling Company <u>VIRTEX</u>														
Soil Gas Location Designation	Probe Depth (FL)	Time Probe Installed	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Start leak check vacuum (In. Hg) and time	End leak check vacuum (In. Hg) and time	ADDITIONAL leak check vacuum (In. Hg) and time	Start PURGE time	End PURGE time	Start of tracer gas equilibration time	Time and conc. (ppm) of tracer gas equilibration	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	NOTES
SG-1	3	1050	36506	vac -27 time 1115	vac -27 time 1125	vac -27 time 1135	vac time	time 124400	time 124452	time 124950	conc 44 time 125055	vac -29 time 125310	vac -5 time 130555	13:06:10 4 PPM
SG-1 DUP			36427	vac -27 time 1120	vac time	vac time	vac time	time	time	time	conc time	vac -29 time 130710	vac -5 time 131824	
SG-2	3	1056	63677	vac -27 time 1125	vac -28 time 1300	vac -28 time 1315	vac time 133600	time 133600	time 133652	time 135612	conc 36 time 135813	vac -28.5 time 135742	vac -5 time 140810	14:08:30 2 PPM
SG-3	3	1100	11896 H	vac -27 time 1130	vac -29 time 135600	vac -28 time 140600	vac time	time 142200	time 143252	time 143400	conc 42 time 143530	vac -29.5 time 143625	vac -5 time 155030	15:51:00 0 PPM
SG-4	3	1105	33414	vac -27 time 1300	vac -27 time 1310	vac -27 time 1320	vac time	time 154000	time 154052	time 1604	conc 60 time 1606	vac -29 time 160540	vac -5 time 161400	1614:30 9 PPM
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG-6	5	1240	31885	vac -27 time 1245	vac -27 time 1420	vac -27 time 1430	vac time	time 143500	time 143607	time 1638	conc 48 time 1640	vac -28 time 164100	vac -18 time 17:30:07	17:35:00 0 PPM
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	

SOIL GAS SAMPLING DATA SHEET

MEL SENA BRAKE SERVICE
2311 E 12th St. OAKLAND

Address 2311 E 12th St. OAKLAND
Job # 040484
Date 3/16/09
P&D Sampler MLD
Drilling Company ULTRONEX

Probe Method (check one)
 PRT
 Temp Well

Soil Gas Location Designation	Probe Depth (ft)	Time Probe Installed	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Start leak check vacuum (In. Hg) and time	End leak check vacuum (In. Hg) and time	ADDITIONAL leak check vacuum (In. Hg) and time	Start PURGE time	End PURGE time	Start of tracer gas equilibration time	Time and conc. (ppm) of tracer gas equilibration	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	NOTES
SG-5	3	1430	36505	vac -28 time 15:50	vac -28.5 time 16:00	vac 28.5 time 16:10	vac time r	time 16:30	time 16:35	time 16:15	conc. 3.2 time 16:17	vac -5 time 16:18:30	vac -5 time 16:28:10	16:31:30 0 PPM
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc. time	vac time	vac time	

SOIL GAS SAMPLING DATA SHEET **MEL SERRA BRAKE SERVICE**

Address **2301 E 125 STREET, OAKLAND**
 Job # **0404-R4** Probe Method (check one)
 Date **3/11/09** PRT
 P&D Sampler **MLD** Temp Well
 Drilling Company **VIROTEX**

Soil Gas Location Designation	Probe Depth (FL)	Time Probe Installed	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Start leak check vacuum (In. Hg) and time	End leak check vacuum (In. Hg) and time	ADDITIONAL leak check vacuum (In. Hg) and time	Start PURGE time	End PURGE time	Start of tracer gas equilibration time	Time and conc. (ppm) of tracer gas equilibration	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	NOTES
SG-6	5	0835	3390	vac -28 time 0910	vac -26.5 time 0919	vac -26.5 time 0929	vac	time 093100	time 093207	time 0938	conc 34 time 0939	vac -28.5 time 094018	vac -14.5 time 124852	124950 am
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	
SG				vac time	vac time	vac time	vac time	time	time	time	conc time	vac time	vac time	

APPENDIX D

Soil Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number

6733

4. Generator's Name and Mailing Address

Jena Automotive
2301 East 12th Street
Oakland, CA 94606
Generator's Phone 415-935-5518

5. Transporter Company Name

CLEARWATER ENVIRONMENTAL

6.

US EPA ID Number

CAR000007013

7. Transporter Phone

(510) 476-1740

8. Designated Facility Name and Site Address

ALVISO INDEPENDENT OIL
5002 ARCHER STREET
ALVISO, CA 95002

9.

US EPA ID Number

CAL000161743

10. Facility's Phone

(510) 476-1740

11. Waste Shipping Name and Description

a. Non-Hazardous waste - Solid

12. Containers
No. Type

od dr

13. Total Quantity

400

14. Unit Wt/Vol

P

15. Special Handling Instructions and Additional Information

Wear PPE
Emergency Contact
(510) 476-1740
Attn: Kirk Hayward

Handling Codes for Wastes Listed Above

11a.

11b.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Signed on Behalf of Generator

Will Clark

Month Day Year
03 30 09

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

William Clark

William Clark

Month Day Year
03 30 09

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name

Signature

Charles Seaton

Charles Seaton

Month Day Year
3 30 09

GENERATOR
TRANSPORTER
FACILITY

APPENDIX E

Laboratory Analytical Reports and Chain of Custody Documentation

- **McC Campbell Work Order # 0903273 Borehole Soil SB11**
- **McC Campbell Work Order # 0903272 Borehole Soil SB12 & SB13**
- **McC Campbell Work Order # 0903181 Borehole Groundwater SB7 & SB8**
- **McC Campbell Work Order # 0903274 Borehole Groundwater SB11**
- **McC Campbell Work Order # 0903275 Borehole Groundwater SB9, SB10, SB12, & SB13**
- **Air Toxics Work Order # 0903356B_d Soil Gas SG1 through SG6 TO-3/TPH-G**
- **Air Toxics Work Order # 0903356A_d Soil Gas SG1 through SG6 TO-15/HVOCs**



McC Campbell Analytical, Inc.

"When Quality Counts"

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E.12th St., Oakland	Date Sampled: 03/11/09
		Date Received: 03/11/09
	Client Contact: Paul King	Date Reported: 03/18/09
	Client P.O.:	Date Completed: 03/18/09

WorkOrder: 0903273

March 18, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0404; 2301 E.12th St., Oakland,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903273

ClientCode: PDEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Paul King	Email: lab@pdenviro.com	Bill to:	Accounts Payable	Requested TAT:	5 days
	P & D Environmental	cc:		P & D Environmental	Date Received:	03/11/2009
	55 Santa Clara, Ste.240	PO:		55 Santa Clara, Ste.240	Date Printed:	03/11/2009
	Oakland, CA 94610	ProjectNo: #0404; 2301 E.12th St., Oakland		Oakland, CA 94610		
	(510) 658-6916 FAX 510-834-0152					

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903273-001	SB11-8.5	Soil	3/11/2009 13:10	<input type="checkbox"/>	A	A											

Test Legend:

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

The following SampID: 001A contains testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **3/11/2009 6:01:40 PM**

Project Name: **#0404; 2301 E.12th St., Oakland**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **0903273** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 6.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mcccampbell.com E-mail: main@mcccampbell.com

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E.12th St., Oakland	Date Sampled: 03/11/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/11/09
		Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903273

Lab ID	0903273-001A
Client ID	SB11-8.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.0	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	0.81	40	0.005	sec-Butyl benzene	0.36	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	ND<0.20	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	0.44	40	0.005
4-Isopropyl toluene	0.48	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	0.94	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	ND<0.20	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	83	%SS2:	103
%SS3:	107		

Comments: a3

* 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.

a3) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41960

WorkOrder: 0903273

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0903265-003A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	86.5	87.3	0.878	83.5	88.8	6.17	60 - 130	30	60 - 130	30
Benzene	ND	0.050	112	115	2.53	109	118	8.46	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	89.4	92.1	2.92	86.1	91.1	5.70	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	108	108	0	104	110	6.24	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	97.6	3.93	95.9	101	5.37	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.8	99.4	1.62	98.4	105	6.01	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	76.6	80.1	4.39	81	84.8	4.55	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	110	114	3.99	105	113	7.23	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	112	115	2.82	107	115	7.45	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	103	103	0	98.4	106	7.46	60 - 130	30	60 - 130	30
Toluene	ND	0.050	113	111	1.44	116	121	4.08	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	102	106	4.14	103	109	5.32	60 - 130	30	60 - 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 41960 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903273-001A	03/11/09 1:10 PM	03/11/09	03/18/09 3:47 AM				

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41945

WorkOrder 0903273

Analyte	EPA Method SW8015Bm		Extraction SW5030B						Spiked Sample ID: 0903236-006A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	104	101	3.11	114	101	11.9	70 - 130	20	70 - 130	20
MTBE	ND	0.10	109	115	5.57	109	108	0.677	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.7	96.4	2.78	99.1	100	1.23	70 - 130	20	70 - 130	20
Toluene	ND	0.10	103	106	2.74	111	113	1.86	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	102	104	2.36	110	111	0.433	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	114	116	2.24	118	123	3.92	70 - 130	20	70 - 130	20
%SS:	81	0.10	96	87	10.4	98	100	1.79	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 41945 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903273-001A	03/11/09 1:10 PM	03/11/09	03/14/09 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41914

WorkOrder 0903273

Analyte	EPA Method SW8015B			Extraction SW3550C					Spiked Sample ID: 0903208-012A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	102	102	0	94	91.5	2.68	70 - 130	30	70 - 130	30
%SS:	99	50	99	100	0.470	82	82	0	70 - 130	30	70 - 130	30

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

BATCH 41914 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903273-001A	03/11/09 1:10 PM	03/11/09	03/12/09 3:56 AM				

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

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

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

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

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



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silviera Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Reported: 03/18/09
		Date Completed: 03/18/09

WorkOrder: 0903272

March 18, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#0404; J.W. Silviera Mel Senna Bra**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

0903272

PROJECT NUMBER: 0404		PROJECT NAME: J.W. SILVEIRA MEL SENNA BRAKES SERVICE 2301 E 12th STREET OAKLAND			NUMBER OF CONTAINERS	ANALYSIS(ES): TPH (G.D.) MULTI RANGE EPA 8260B + PYRENETES + LEAD SAUVENERS	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) MICHAEL DESCHENES <i>Michael Deschenes</i>								
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION				
SB12-9.5	3/10/09	0830	Soil		1	X	X	ICE NORMAL TURN AROUND
SB12-14.5	3/10/09	0840	"		1	X	X	" " "
SB12-17.5	3/10/09	0917	"		1	X	X	" " "
SB13-9.5	3/10/09	1110	"		1	X	X	" " "
SB13-13.5	3/10/09	1127	"		1	X	X	" " "
SB13-17.5	3/10/09	1138	"		1	X	X	" " "
ICE / 4.2 GOOD CONDITION _____ APPROPRIATE HEAD SPACE ABSENT _____ CONTAINERS DECHLORINATED IN LAB _____ PRESERVED IN LAB PRESERVATION _____ VOAS O & G METALS OTHER								
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF SAMPLES (THIS SHIPMENT)	LABORATORY:			
<i>Michael Deschenes</i>	3/10/09	8:57	<i>[Signature]</i>	6	MC. CAMPBELL ANALYTICAL			
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF CONTAINERS (THIS SHIPMENT)	LABORATORY CONTACT: LABORATORY PHONE NUMBER:			
<i>[Signature]</i>	3/10/09	4:45	<i>[Signature]</i>	6	ANGELA RYDELINS (877) 252-9262			
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () Y'S (X) NO				
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com			REMARKS:					

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903272

ClientCode: PDEO

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Paul King
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610
 (510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
 cc:
 PO:
 ProjectNo: #0404; J.W. Silveira Mel Senna Brakes
 Service

Bill to:

Accounts Payable
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610

Requested TAT: 5 days

Date Received: 03/11/2009

Date Printed: 03/11/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903272-001	SB12-9.5	Soil	3/10/2009 8:30	<input type="checkbox"/>	A	A											
0903272-002	SB12-14.5	Soil	3/10/2009 8:40	<input type="checkbox"/>	A	A											
0903272-003	SB12-17.5	Soil	3/10/2009 9:17	<input type="checkbox"/>	A	A											
0903272-004	SB13-9.5	Soil	3/10/2009 11:10	<input type="checkbox"/>	A	A											
0903272-005	SB13-13.5	Soil	3/10/2009 11:27	<input type="checkbox"/>	A	A											
0903272-006	SB13-17.5	Soil	3/10/2009 11:38	<input type="checkbox"/>	A	A											

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **3/11/2009 5:44:16 PM**
Project Name: **#0404; J.W. Silviera Mel Senna Brakes Service** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder N°: **0903272** Matrix Soil Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Container/Temp Blank temperature Cooler Temp: 4.2°C NA
Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
Sample labels checked for correct preservation? Yes No
TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
Samples Received on Ice? Yes No
(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: Date contacted: Contacted by:

Comments:



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/17/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-001A
Client ID	SB12-9.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.20	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	0.63	40	0.005	sec-Butyl benzene	0.35	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	ND<0.20	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	0.63	40	0.005
4-Isopropyl toluene	0.52	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	1.2	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	ND<0.20	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	92	%SS2:	97
%SS3:	105		

Comments: a3

* 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.

a3) sample diluted due to high organic content.

c2) estimated value due to high surrogate recovery, caused by matrix interference/high organic content.



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-002A
Client ID	SB12-14.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	0.054	1.0	0.005	sec-Butyl benzene	0.031	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	0.047	1.0	0.005
4-Isopropyl toluene	0.038	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	0.074	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	103	%SS2:	108
%SS3:	---#		

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.

a3) sample diluted due to high organic content.

c2) estimated value due to high surrogate recovery, caused by matrix interference/high organic content.



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-003A
Client ID	SB12-17.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.057	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	0.054	1.0	0.005	sec-Butyl benzene	0.028	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	0.053	1.0	0.005
4-Isopropyl toluene	0.045	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	0.098	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	104
%SS3:	---#		

Comments: c2

* 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.

a3) sample diluted due to high organic content.

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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-004A
Client ID	SB13-9.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.0	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	1.2	40	0.005	sec-Butyl benzene	0.41	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	ND<0.20	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	0.91	40	0.005
4-Isopropyl toluene	0.73	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	1.9	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	ND<0.20	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	91	%SS2:	101
%SS3:	---#		

Comments: a3

* 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.

a3) sample diluted due to high organic content.

c2) estimated value due to high surrogate recovery, caused by matrix interference/high organic content.



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-005A
Client ID	SB13-13.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	0.018	1.0	0.005	sec-Butyl benzene	0.0090	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	0.0091	1.0	0.005
4-Isopropyl toluene	0.018	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	85	%SS2:	111
%SS3:	81		

Comments: c2

* 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.

a3) sample diluted due to high organic content.

c2) estimated value due to high surrogate recovery, caused by matrix interference/high organic content.



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira	Date Sampled: 03/10/09
	Mel Senna Brakes Service	Date Received: 03/11/09
	Client Contact: Paul King	Date Extracted: 03/11/09
	Client P.O.:	Date Analyzed 03/18/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903272

Lab ID	0903272-006A
Client ID	SB13-17.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.0	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	0.59	40	0.005	sec-Butyl benzene	0.24	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	0.84	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	0.52	40	0.005
4-Isopropyl toluene	0.39	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	0.97	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	ND<0.20	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	90	%SS2:	104
%SS3:	103		

Comments: a3

* 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.

a3) sample diluted due to high organic content.

c2) estimated value due to high surrogate recovery, caused by matrix interference/high organic content.



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silveira Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Analyzed 03/13/09-03/16/09
		Date Extracted: 03/11/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Bm

Work Order: 0903272

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	SB12-9.5	S	360,d9	67	---#
002A	SB12-14.5	S	25,d9	1	96
003A	SB12-17.5	S	390,d9	33	---#
004A	SB13-9.5	S	820,d9	50	---#
005A	SB13-13.5	S	35,d9	2	99
006A	SB13-17.5	S	460,d9	33	---#

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

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d9) no recognizable pattern



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W. Silviera Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Analyzed 03/11/09-03/13/09

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550C

Analytical methods: SW8015B

Work Order: 0903272

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0903272-001A	SB12-9.5	S	67,e11,e7,e2	1	115
0903272-002A	SB12-14.5	S	15,e11,e7,e2	1	108
0903272-003A	SB12-17.5	S	13,e11,e7,e2	1	99
0903272-004A	SB13-9.5	S	280,e11,e1	1	117
0903272-005A	SB13-13.5	S	9.5,e7,e11,e2	1	109
0903272-006A	SB13-17.5	S	94,e11,e2	5	111

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- e1) unmodified or weakly modified diesel is significant
- e2) diesel range compounds are significant; no recognizable pattern
- e7) oil range compounds are significant
- e11) stoddard solvent/mineral spirit (?)



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41960

WorkOrder 0903272

Analyte	Extraction SW5030B								Spiked Sample ID: 0903265-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	86.5	87.3	0.878	83.5	88.8	6.17	60 - 130	30	60 - 130	30
Benzene	ND	0.050	112	115	2.53	109	118	8.46	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	89.4	92.1	2.92	86.1	91.1	5.70	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	108	108	0	104	110	6.24	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	97.6	3.93	95.9	101	5.37	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.8	99.4	1.62	98.4	105	6.01	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	76.6	80.1	4.39	81	84.8	4.55	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	110	114	3.99	105	113	7.23	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	112	115	2.82	107	115	7.45	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	103	103	0	98.4	106	7.46	60 - 130	30	60 - 130	30
Toluene	ND	0.050	113	111	1.44	116	121	4.08	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	102	106	4.14	103	109	5.32	60 - 130	30	60 - 130	30
%SS1:	87	0.12	83	84	1.05	83	83	0	70 - 130	30	70 - 130	30
%SS2:	105	0.12	105	104	1.13	106	106	0	70 - 130	30	70 - 130	30
%SS3:	97	0.012	85	88	2.91	87	84	3.68	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 41960 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903272-001A	03/10/09 8:30 AM	03/11/09	03/17/09 11:57 PM	0903272-002A	03/10/09 8:40 AM	03/11/09	03/18/09 12:37 AM
0903272-003A	03/10/09 9:17 AM	03/11/09	03/18/09 10:39 AM	0903272-004A	03/10/09 11:10 AM	03/11/09	03/18/09 1:53 AM
0903272-005A	03/10/09 11:27 AM	03/11/09	03/18/09 11:17 AM	0903272-006A	03/10/09 11:38 AM	03/11/09	03/18/09 3:09 AM

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41945

WorkOrder 0903272

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0903236-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	104	101	3.11	114	101	11.9	70 - 130	20	70 - 130	20
MTBE	ND	0.10	109	115	5.57	109	108	0.677	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.7	96.4	2.78	99.1	100	1.23	70 - 130	20	70 - 130	20
Toluene	ND	0.10	103	106	2.74	111	113	1.86	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	102	104	2.36	110	111	0.433	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	114	116	2.24	118	123	3.92	70 - 130	20	70 - 130	20
%SS:	81	0.10	96	87	10.4	98	100	1.79	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 41945 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903272-001A	03/10/09 8:30 AM	03/11/09	03/13/09 8:21 PM	0903272-002A	03/10/09 8:40 AM	03/11/09	03/16/09 5:12 PM
0903272-003A	03/10/09 9:17 AM	03/11/09	03/13/09 10:37 PM	0903272-004A	03/10/09 11:10 AM	03/11/09	03/14/09 12:17 AM
0903272-005A	03/10/09 11:27 AM	03/11/09	03/16/09 4:33 PM	0903272-006A	03/10/09 11:38 AM	03/11/09	03/14/09 1:56 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 41914

WorkOrder 0903272

EPA Method SW8015B		Extraction SW3550C							Spiked Sample ID: 0903208-012A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	102	102	0	94	91.5	2.68	70 - 130	30	70 - 130	30
%SS:	99	50	99	100	0.470	82	82	0	70 - 130	30	70 - 130	30

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

BATCH 41914 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903272-001A	03/10/09 8:30 AM	03/11/09	03/12/09 5:28 PM	0903272-002A	03/10/09 8:40 AM	03/11/09	03/12/09 8:30 AM
0903272-003A	03/10/09 9:17 AM	03/11/09	03/13/09 4:57 AM	0903272-004A	03/10/09 11:10 AM	03/11/09	03/13/09 6:04 AM
0903272-005A	03/10/09 11:27 AM	03/11/09	03/12/09 11:18 PM	0903272-006A	03/10/09 11:38 AM	03/11/09	03/11/09 11:23 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 enough sample to perform matrix spike and matrix spike duplicate.

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



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E. 12th St, Oakland	Date Sampled: 03/05/09
		Date Received: 03/06/09
	Client Contact: Paul King	Date Reported: 03/11/09
	Client P.O.:	Date Completed: 03/11/09

WorkOrder: 0903181

March 11, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **#0404; 2301 E. 12th St, Oakland,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

0903181

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER: 0404		PROJECT NAME: 2301 E. 12th St., Oakland			NUMBER OF CONTAINERS	ANALYSIS(ES): TPH & TPH-D		PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Steven Flexser <i>Steven Flexser</i>						<i>260B with fuel oxygenates and lead scavengers</i>			
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION					
SB7-W	3/5/09	1300	W		7	X	X	ice	Normal Turn Around
SB8-W	3/5/09	1415	W		7	X	X	ice	Normal Turn Around
					ICE: <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS HEADSPACE ABSENT <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> PRESERVED IN LAB DECHLORINATED IN LAB <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> PRESERVED IN LAB PRESERVATION: VOCAS <input checked="" type="checkbox"/> D&C <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER <input checked="" type="checkbox"/>				
RELINQUISHED BY: (SIGNATURE) <i>Steven Flexser</i>		DATE 3/6/09	TIME 306	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		TOTAL NO. OF SAMPLES (THIS SHIPMENT) 2	LABORATORY: McCampbell Analytical		
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 3/6/09	TIME 350	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 14	LABORATORY CONTACT: Angela Rydelius LABORATORY PHONE NUMBER: (877) 252-9262		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO			
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com				REMARKS: Containers preserved with HCl.					

+5
+10

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903181

ClientCode: PDEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Paul King	Email: lab@pdenviro.com	Bill to:	Accounts Payable	Requested TAT: 5 days
	P & D Environmental	cc:		P & D Environmental	<i>Date Received: 03/06/2009</i>
	55 Santa Clara, Ste.240	PO:		55 Santa Clara, Ste.240	<i>Date Printed: 03/06/2009</i>
	Oakland, CA 94610	ProjectNo: #0404; 2301 E. 12th St, Oakland		Oakland, CA 94610	
	(510) 658-6916 FAX 510-834-0152				

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0903181-001	SB7-W	Water	3/5/2009 13:00	<input type="checkbox"/>	B	A	A									
0903181-002	SB8-W	Water	3/5/2009 14:15	<input type="checkbox"/>	B	A	A									

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	TPH(D)_W	4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **3/6/2009 7:35:24 PM**

Project Name: **#0404; 2301 E. 12th St, Oakland**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **0903181** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 2.6°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E. 12th St, Oakland	Date Sampled: 03/05/09
	Client Contact: Paul King	Date Received: 03/06/09
	Client P.O.:	Date Extracted: 03/10/09
		Date Analyzed 03/10/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903181

Lab ID	0903181-001B
Client ID	SB7-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	0.63	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-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	ND	1.0	0.5	Trichloroethene	0.86	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	73	%SS2:	94
%SS3:	87		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E. 12th St, Oakland	Date Sampled: 03/05/09
	Client Contact: Paul King	Date Received: 03/06/09
	Client P.O.:	Date Extracted: 03/10/09
		Date Analyzed 03/10/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903181

Lab ID	0903181-002B
Client ID	SB8-W
Matrix	Water

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

Surrogate Recoveries (%)

%SS1:	73	%SS2:	95
%SS3:	88		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41873

WorkOrder 0903181

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0903150-004A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	104	104	0	95.6	95.9	0.384	70 - 130	30	70 - 130	30
Benzene	ND	10	118	119	0.679	110	111	1.24	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	95.7	98.8	3.23	105	98.8	6.20	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	104	103	0.980	105	104	1.35	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	102	103	0.783	105	106	0.964	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	125	127	1.31	98.2	98.8	0.580	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	75.4	76.3	1.10	73.1	72.3	1.13	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	123	124	1.16	99.5	99.8	0.382	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	127	124	2.74	111	110	0.867	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	117	115	2.13	106	105	0.583	70 - 130	30	70 - 130	30
Toluene	ND	10	124	123	0.798	109	110	0.669	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	106	103	2.99	106	105	0.890	70 - 130	30	70 - 130	30
%SS1:	71	25	80	80	0	71	71	0	70 - 130	30	70 - 130	30
%SS2:	99	25	99	99	0	100	100	0	70 - 130	30	70 - 130	30
%SS3:	77	2.5	78	76	3.21	85	86	0.444	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 41873 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903181-001B	03/05/09 1:00 PM	03/10/09	03/10/09 10:20 PM	0903181-002B	03/05/09 2:15 PM	03/10/09	03/10/09 11:04 PM

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

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41894

WorkOrder 0903181

Analyte	EPA Method SW8015Bm		Extraction SW5030B						Spiked Sample ID: 0903172-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	60	94.1	99.6	5.68	103	108	4.76	70 - 130	20	70 - 130	20
MTBE	ND	10	76.8	82.7	7.47	98.6	102	2.90	70 - 130	20	70 - 130	20
Benzene	ND	10	85.8	93.6	8.76	89.7	94.9	5.66	70 - 130	20	70 - 130	20
Toluene	ND	10	86.4	94.3	8.76	92.9	97.7	5.05	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	90.8	98.4	8.12	95	99.2	4.33	70 - 130	20	70 - 130	20
Xylenes	ND	30	101	109	6.81	107	112	4.44	70 - 130	20	70 - 130	20
%SS:	88	10	92	95	3.26	104	103	0.644	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 41894 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903181-001A	03/05/09 1:00 PM	03/10/09	03/10/09 1:50 AM	0903181-002A	03/05/09 2:15 PM	03/10/09	03/10/09 2:23 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41876

WorkOrder: 0903181

EPA Method SW8015B		Extraction SW3510C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	91.6	91.7	0.158	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	80	83	3.12	N/A	N/A	70 - 130	30

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

BATCH 41876 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903181-001A	03/05/09 1:00 PM	03/06/09	03/10/09 12:37 AM	0903181-002A	03/05/09 2:15 PM	03/06/09	03/07/09 3:36 AM

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

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

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

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

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



McC Campbell Analytical, Inc.

"When Quality Counts"

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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E.12th St., Oakland	Date Sampled: 03/11/09
		Date Received: 03/11/09
	Client Contact: Paul King	Date Reported: 03/17/09
	Client P.O.:	Date Completed: 03/17/09

WorkOrder: 0903274

March 17, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0404; 2301 E.12th St., Oakland,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0903274

PROJECT NUMBER: 0404		PROJECT NAME: 2301 E. 12th St. Oakland			NUMBER OF CONTAINERS	ANALYSIS(ES): TPH 6+P X26DB w/ Fe, LOX, 3+ Pb, Se, Cr, Pb, Cu	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack <i>StGled</i>								
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION				
SB11-w	3/11/09	1405	H₂O		X X	ICE	Normal Turnaround Time	
					ICE / 1" 4 5 GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB PRESERVATION			
					APPROPRIATE CONTAINERS PRESERVED IN LAB VOAS O & G METALS OTHER			
RELINQUISHED BY: (SIGNATURE) <i>StGled</i>		DATE 3/11/09	TIME 3:44	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	TOTAL NO. OF SAMPLES (THIS SHIPMENT) 1	LABORATORY: McCampbell Analytical		
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 3/11/09	TIME 4:45	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 7	LABORATORY CONTACT: Angeles Ryzelins LABORATORY PHONE NUMBER: (877) 252-9262		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO			
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com				REMARKS: All bottles preserved w/ HCC				

+5

Time

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903274

ClientCode: PDEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Paul King	Email: lab@pdenviro.com	Bill to:	Accounts Payable	Requested TAT:	5 days
	P & D Environmental	cc:		P & D Environmental	<i>Date Received:</i>	03/11/2009
	55 Santa Clara, Ste.240	PO:		55 Santa Clara, Ste.240	<i>Date Printed:</i>	03/11/2009
	Oakland, CA 94610	ProjectNo: #0404; 2301 E.12th St., Oakland		Oakland, CA 94610		
	(510) 658-6916 FAX 510-834-0152					

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903274-001	SB11-W	Water	3/11/2009 14:05	<input type="checkbox"/>	B	A											

Test Legend:

1	8260B_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **3/11/2009 6:11:14 PM**

Project Name: **#0404; 2301 E.12th St., Oakland**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **0903274** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 4.8°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; 2301 E.12th St., Oakland	Date Sampled: 03/11/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/15/09
		Date Analyzed 03/15/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903274

Lab ID	0903274-001B
Client ID	SB11-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<50	5.0	10	tert-Amyl methyl ether (TAME)	ND<2.5	5.0	0.5
Benzene	37	5.0	0.5	Bromobenzene	ND<2.5	5.0	0.5
Bromochloromethane	ND<2.5	5.0	0.5	Bromodichloromethane	ND<2.5	5.0	0.5
Bromoform	ND<2.5	5.0	0.5	Bromomethane	ND<2.5	5.0	0.5
2-Butanone (MEK)	ND<10	5.0	2.0	t-Butyl alcohol (TBA)	ND<10	5.0	2.0
n-Butyl benzene	29	5.0	0.5	sec-Butyl benzene	17	5.0	0.5
tert-Butyl benzene	ND<2.5	5.0	0.5	Carbon Disulfide	ND<2.5	5.0	0.5
Carbon Tetrachloride	ND<2.5	5.0	0.5	Chlorobenzene	ND<2.5	5.0	0.5
Chloroethane	ND<2.5	5.0	0.5	Chloroform	ND<2.5	5.0	0.5
Chloromethane	ND<2.5	5.0	0.5	2-Chlorotoluene	ND<2.5	5.0	0.5
4-Chlorotoluene	ND<2.5	5.0	0.5	Dibromochloromethane	ND<2.5	5.0	0.5
1,2-Dibromo-3-chloropropane	ND<1.0	5.0	0.2	1,2-Dibromoethane (EDB)	ND<2.5	5.0	0.5
Dibromomethane	ND<2.5	5.0	0.5	1,2-Dichlorobenzene	ND<2.5	5.0	0.5
1,3-Dichlorobenzene	ND<2.5	5.0	0.5	1,4-Dichlorobenzene	ND<2.5	5.0	0.5
Dichlorodifluoromethane	ND<2.5	5.0	0.5	1,1-Dichloroethane	ND<2.5	5.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	5.0	0.5	1,1-Dichloroethene	ND<2.5	5.0	0.5
cis-1,2-Dichloroethene	9.6	5.0	0.5	trans-1,2-Dichloroethene	11	5.0	0.5
1,2-Dichloropropane	ND<2.5	5.0	0.5	1,3-Dichloropropane	ND<2.5	5.0	0.5
2,2-Dichloropropane	ND<2.5	5.0	0.5	1,1-Dichloropropene	ND<2.5	5.0	0.5
cis-1,3-Dichloropropene	ND<2.5	5.0	0.5	trans-1,3-Dichloropropene	ND<2.5	5.0	0.5
Diisopropyl ether (DIPE)	ND<2.5	5.0	0.5	Ethylbenzene	41	5.0	0.5
Ethyl tert-butyl ether (ETBE)	ND<2.5	5.0	0.5	Freon 113	ND<50	5.0	10
Hexachlorobutadiene	ND<2.5	5.0	0.5	Hexachloroethane	ND<2.5	5.0	0.5
2-Hexanone	ND<2.5	5.0	0.5	Isopropylbenzene	66	5.0	0.5
4-Isopropyl toluene	27	5.0	0.5	Methyl-t-butyl ether (MTBE)	ND<2.5	5.0	0.5
Methylene chloride	ND<2.5	5.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<2.5	5.0	0.5
Naphthalene	ND<2.5	5.0	0.5	n-Propyl benzene	90	5.0	0.5
Styrene	ND<2.5	5.0	0.5	1,1,1,2-Tetrachloroethane	ND<2.5	5.0	0.5
1,1,1,2-Tetrachloroethane	ND<2.5	5.0	0.5	Tetrachloroethene	ND<2.5	5.0	0.5
Toluene	ND<2.5	5.0	0.5	1,2,3-Trichlorobenzene	ND<2.5	5.0	0.5
1,2,4-Trichlorobenzene	ND<2.5	5.0	0.5	1,1,1-Trichloroethane	ND<2.5	5.0	0.5
1,1,2-Trichloroethane	ND<2.5	5.0	0.5	Trichloroethene	30	5.0	0.5
Trichlorofluoromethane	ND<2.5	5.0	0.5	1,2,3-Trichloropropane	ND<2.5	5.0	0.5
1,2,4-Trimethylbenzene	ND<2.5	5.0	0.5	1,3,5-Trimethylbenzene	ND<2.5	5.0	0.5
Vinyl Chloride	3.1	5.0	0.5	Xylenes	6.1	5.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	99
%SS3:	---		

Comments: b6,b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41954

WorkOrder 0903274

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0903264-011A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	104	96.1	7.47	89.9	95.5	6.07	70 - 130	20	70 - 130	20
MTBE	ND	10	95.8	101	5.23	89.6	96	6.91	70 - 130	20	70 - 130	20
Benzene	ND	10	92.9	95.7	3.02	106	96.4	9.42	70 - 130	20	70 - 130	20
Toluene	ND	10	104	106	2.40	96.7	87.9	9.55	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	103	104	1.14	109	96.4	12.2	70 - 130	20	70 - 130	20
Xylenes	ND	30	115	115	0	103	94.8	8.30	70 - 130	20	70 - 130	20
%SS:	99	10	95	98	2.71	107	100	6.60	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 41954 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903274-001A	03/11/09 2:05 PM	03/13/09	03/13/09 8:57 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41955

WorkOrder 0903274

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0903260-005B			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	86.1	85.9	0.153	101	102	1.61	70 - 130	30	70 - 130	30
Benzene	ND	10	104	104	0	114	112	1.41	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	3.9	50	82.5	85.9	3.73	91.2	93.5	2.50	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	97.2	99	1.76	101	102	0.965	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	95.1	101	6.49	106	108	1.86	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	97.9	97.5	0.440	104	104	0	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	75.1	74.8	0.437	73.9	73.3	0.859	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	90.7	90.5	0.161	110	110	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	96.2	97.6	1.51	119	119	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	21	10	80.3	86.6	2.16	109	110	0.656	70 - 130	30	70 - 130	30
Toluene	0.76	10	102	103	0.312	106	108	1.95	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	99.4	98.4	1.00	106	104	2.00	70 - 130	30	70 - 130	30
%SS1:	81	25	80	82	2.11	80	79	0.570	70 - 130	30	70 - 130	30
%SS2:	100	25	95	96	1.50	98	99	1.33	70 - 130	30	70 - 130	30
%SS3:	83	2.5	86	84	2.92	86	86	0	70 - 130	30	70 - 130	30

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

BATCH 41955 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903274-001B	03/11/09 2:05 PM	03/15/09	03/15/09 2:51 AM				

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

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41946

WorkOrder 0903274

EPA Method SW8015B		Extraction SW3510C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.8	99.1	2.41	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	104	107	3.03	N/A	N/A	70 - 130	30

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

BATCH 41946 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903274-001A	03/11/09 2:05 PM	03/11/09	03/12/09 3:28 AM				

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

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

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

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

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



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silviera, Mel Senna Brakes Service	Date Sampled: 03/10/09-03/11/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Reported: 03/18/09
		Date Completed: 03/18/09

WorkOrder: 0903275

March 18, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#0404; J.W Silviera, Mel Senna Bra**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

CHAIN OF CUSTODY RECORD

0903275

PROJECT NUMBER: 0404		PROJECT NAME: J.W. SILVEIRA MEL SENNA BRAKES SERVICE 2301 E 12TH STREET OAKLAND		NUMBER OF CONTAINERS	ANALYSIS(ES): TPH(G,D) MULTI RANGE EPA 8260B+OXYGENATES & LEAD SAVER	PRESERVATIVE	REMARKS
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SAMPLED BY: (PRINTED AND SIGNATURE) MICHAEL DESCHENES Michael Deschenes							
---	--	--	--	--	--	--	--

+30
+10
+5
+30
+20
+5

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES)	PRESERVATIVE	REMARKS
SB9-W	3/10/09	15:10	WATER		7	X X	ICE	NORMAL TURN AROUND
SB10-W	3/11/09	08:40	"		* 7	X X	"	" "
SB12-W	3/10/09	0935	"		7	X X	"	" "
SB12W-45	3/10/09	0958	"		7	X X	"	" "
SB13-W	3/10/09	1425	"		7	X X	"	" "
SB13-W-48	3/10/09	1340	"		7	X X	"	" "

ICE !! **3/10**

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

PRESERVATION

APPROPRIATE CONTAINERS

PRESERVED IN LAB

VOAS O & S METALS OTHER

RELINQUISHED BY: (SIGNATURE) Michael Deschenes	DATE 3/11/09	TIME 744	RECEIVED BY: (SIGNATURE) [Signature]	TOTAL NO. OF SAMPLES (THIS SHIPMENT) 6	LABORATORY: MC CAMPBELL ANALYTICAL
RELINQUISHED BY: (SIGNATURE) [Signature]	DATE 3/11/09	TIME 945	RECEIVED BY: (SIGNATURE) [Signature]	TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 42	LABORATORY PHONE NUMBER: (877) 252-9262
RELINQUISHED BY: (SIGNATURE) [Signature]	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO	

Results and billing to: P&D Environmental, Inc. lab@pdenviro.com	REMARKS: CONTAINERS PRESERVED IN HCL. * SB10-W: SUBMITTED 7 VOAS ONLY
--	---

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903275

ClientCode: PDEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: #0404; J.W Silviera, Mel Senna Brakes
Service

Bill to:

Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 5 days

Date Received: 03/11/2009

Date Printed: 03/11/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0903275-001	SB9-W	Water	3/10/2009 15:10	<input type="checkbox"/>	B	A											
0903275-002	SB10-W	Water	3/11/2009 8:40	<input type="checkbox"/>	B	A											
0903275-003	SB12-W	Water	3/10/2009 9:35	<input type="checkbox"/>	B	A											
0903275-004	SB12W-45	Water	3/10/2009 9:58	<input type="checkbox"/>	B	A											
0903275-005	SB13-W	Water	3/10/2009 14:25	<input type="checkbox"/>	B	A											
0903275-006	SB13W-48	Water	3/10/2009 13:40	<input type="checkbox"/>	B	A											

Test Legend:

1	8260B_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **3/11/2009 6:22:32 PM**
 Project Name: **#0404; J.W Silviera, Mel Senna Brakes Service** Checklist completed and reviewed by: **Ana Venegas**
 WorkOrder N°: **0903275** Matrix Water Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 3.6°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: Date contacted: Contacted by:

Comments:



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/16/09
		Date Analyzed 03/16/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-001B
Client ID	SB9-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	1.2	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	2.9	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	18	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.53	1.0	0.5

Surrogate Recoveries (%)

%SS1:	86	%SS2:	99
%SS3:	81		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/11/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/16/09
		Date Analyzed 03/16/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-002B
Client ID	SB10-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	43	2.0	10	tert-Amyl methyl ether (TAME)	ND<1.0	2.0	0.5
Benzene	ND<1.0	2.0	0.5	Bromobenzene	ND<1.0	2.0	0.5
Bromochloromethane	ND<1.0	2.0	0.5	Bromodichloromethane	ND<1.0	2.0	0.5
Bromoform	ND<1.0	2.0	0.5	Bromomethane	ND<1.0	2.0	0.5
2-Butanone (MEK)	10	2.0	2.0	t-Butyl alcohol (TBA)	ND<4.0	2.0	2.0
n-Butyl benzene	ND<1.0	2.0	0.5	sec-Butyl benzene	ND<1.0	2.0	0.5
tert-Butyl benzene	ND<1.0	2.0	0.5	Carbon Disulfide	ND<1.0	2.0	0.5
Carbon Tetrachloride	ND<1.0	2.0	0.5	Chlorobenzene	ND<1.0	2.0	0.5
Chloroethane	ND<1.0	2.0	0.5	Chloroform	ND<1.0	2.0	0.5
Chloromethane	ND<1.0	2.0	0.5	2-Chlorotoluene	ND<1.0	2.0	0.5
4-Chlorotoluene	ND<1.0	2.0	0.5	Dibromochloromethane	ND<1.0	2.0	0.5
1,2-Dibromo-3-chloropropane	ND<0.40	2.0	0.2	1,2-Dibromoethane (EDB)	ND<1.0	2.0	0.5
Dibromomethane	ND<1.0	2.0	0.5	1,2-Dichlorobenzene	ND<1.0	2.0	0.5
1,3-Dichlorobenzene	ND<1.0	2.0	0.5	1,4-Dichlorobenzene	ND<1.0	2.0	0.5
Dichlorodifluoromethane	ND<1.0	2.0	0.5	1,1-Dichloroethane	ND<1.0	2.0	0.5
1,2-Dichloroethane (1,2-DCA)	1.2	2.0	0.5	1,1-Dichloroethene	ND<1.0	2.0	0.5
cis-1,2-Dichloroethene	49	2.0	0.5	trans-1,2-Dichloroethene	4.4	2.0	0.5
1,2-Dichloropropane	ND<1.0	2.0	0.5	1,3-Dichloropropane	ND<1.0	2.0	0.5
2,2-Dichloropropane	ND<1.0	2.0	0.5	1,1-Dichloropropene	ND<1.0	2.0	0.5
cis-1,3-Dichloropropene	ND<1.0	2.0	0.5	trans-1,3-Dichloropropene	ND<1.0	2.0	0.5
Diisopropyl ether (DIPE)	ND<1.0	2.0	0.5	Ethylbenzene	ND<1.0	2.0	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.0	2.0	0.5	Freon 113	ND<20	2.0	10
Hexachlorobutadiene	ND<1.0	2.0	0.5	Hexachloroethane	ND<1.0	2.0	0.5
2-Hexanone	ND<1.0	2.0	0.5	Isopropylbenzene	ND<1.0	2.0	0.5
4-Isopropyl toluene	ND<1.0	2.0	0.5	Methyl-t-butyl ether (MTBE)	ND<1.0	2.0	0.5
Methylene chloride	ND<1.0	2.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.0	2.0	0.5
Naphthalene	ND<1.0	2.0	0.5	n-Propyl benzene	ND<1.0	2.0	0.5
Styrene	ND<1.0	2.0	0.5	1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5
1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5	Tetrachloroethene	ND<1.0	2.0	0.5
Toluene	3.2	2.0	0.5	1,2,3-Trichlorobenzene	ND<1.0	2.0	0.5
1,2,4-Trichlorobenzene	ND<1.0	2.0	0.5	1,1,1-Trichloroethane	ND<1.0	2.0	0.5
1,1,2-Trichloroethane	ND<1.0	2.0	0.5	Trichloroethene	42	2.0	0.5
Trichlorofluoromethane	ND<1.0	2.0	0.5	1,2,3-Trichloropropane	ND<1.0	2.0	0.5
1,2,4-Trimethylbenzene	ND<1.0	2.0	0.5	1,3,5-Trimethylbenzene	ND<1.0	2.0	0.5
Vinyl Chloride	ND<1.0	2.0	0.5	Xylenes	ND<1.0	2.0	0.5

Surrogate Recoveries (%)

%SS1:	86	%SS2:	99
%SS3:	80		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/16/09
		Date Analyzed 03/16/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-003B
Client ID	SB12-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	43	2.5	10	tert-Amyl methyl ether (TAME)	ND<1.2	2.5	0.5
Benzene	ND<1.2	2.5	0.5	Bromobenzene	ND<1.2	2.5	0.5
Bromochloromethane	ND<1.2	2.5	0.5	Bromodichloromethane	ND<1.2	2.5	0.5
Bromoform	ND<1.2	2.5	0.5	Bromomethane	ND<1.2	2.5	0.5
2-Butanone (MEK)	5.2	2.5	2.0	t-Butyl alcohol (TBA)	ND<5.0	2.5	2.0
n-Butyl benzene	5.7	2.5	0.5	sec-Butyl benzene	3.8	2.5	0.5
tert-Butyl benzene	ND<1.2	2.5	0.5	Carbon Disulfide	ND<1.2	2.5	0.5
Carbon Tetrachloride	ND<1.2	2.5	0.5	Chlorobenzene	ND<1.2	2.5	0.5
Chloroethane	ND<1.2	2.5	0.5	Chloroform	ND<1.2	2.5	0.5
Chloromethane	ND<1.2	2.5	0.5	2-Chlorotoluene	ND<1.2	2.5	0.5
4-Chlorotoluene	ND<1.2	2.5	0.5	Dibromochloromethane	ND<1.2	2.5	0.5
1,2-Dibromo-3-chloropropane	ND<0.50	2.5	0.2	1,2-Dibromoethane (EDB)	ND<1.2	2.5	0.5
Dibromomethane	ND<1.2	2.5	0.5	1,2-Dichlorobenzene	ND<1.2	2.5	0.5
1,3-Dichlorobenzene	ND<1.2	2.5	0.5	1,4-Dichlorobenzene	ND<1.2	2.5	0.5
Dichlorodifluoromethane	ND<1.2	2.5	0.5	1,1-Dichloroethane	ND<1.2	2.5	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.2	2.5	0.5	1,1-Dichloroethene	ND<1.2	2.5	0.5
cis-1,2-Dichloroethene	ND<1.2	2.5	0.5	trans-1,2-Dichloroethene	ND<1.2	2.5	0.5
1,2-Dichloropropane	ND<1.2	2.5	0.5	1,3-Dichloropropane	ND<1.2	2.5	0.5
2,2-Dichloropropane	ND<1.2	2.5	0.5	1,1-Dichloropropene	ND<1.2	2.5	0.5
cis-1,3-Dichloropropene	ND<1.2	2.5	0.5	trans-1,3-Dichloropropene	ND<1.2	2.5	0.5
Diisopropyl ether (DIPE)	ND<1.2	2.5	0.5	Ethylbenzene	1.3	2.5	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.2	2.5	0.5	Freon 113	ND<25	2.5	10
Hexachlorobutadiene	ND<1.2	2.5	0.5	Hexachloroethane	ND<1.2	2.5	0.5
2-Hexanone	ND<1.2	2.5	0.5	Isopropylbenzene	12	2.5	0.5
4-Isopropyl toluene	5.4	2.5	0.5	Methyl-t-butyl ether (MTBE)	ND<1.2	2.5	0.5
Methylene chloride	ND<1.2	2.5	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.2	2.5	0.5
Naphthalene	ND<1.2	2.5	0.5	n-Propyl benzene	14	2.5	0.5
Styrene	ND<1.2	2.5	0.5	1,1,1,2-Tetrachloroethane	ND<1.2	2.5	0.5
1,1,1,2-Tetrachloroethane	ND<1.2	2.5	0.5	Tetrachloroethene	ND<1.2	2.5	0.5
Toluene	14	2.5	0.5	1,2,3-Trichlorobenzene	ND<1.2	2.5	0.5
1,2,4-Trichlorobenzene	ND<1.2	2.5	0.5	1,1,1-Trichloroethane	ND<1.2	2.5	0.5
1,1,2-Trichloroethane	ND<1.2	2.5	0.5	Trichloroethene	ND<1.2	2.5	0.5
Trichlorofluoromethane	ND<1.2	2.5	0.5	1,2,3-Trichloropropane	ND<1.2	2.5	0.5
1,2,4-Trimethylbenzene	2.4	2.5	0.5	1,3,5-Trimethylbenzene	1.2	2.5	0.5
Vinyl Chloride	ND<1.2	2.5	0.5	Xylenes	3.8	2.5	0.5

Surrogate Recoveries (%)

%SS1:	85	%SS2:	98
%SS3:	94		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/16/09
		Date Analyzed 03/16/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-004B
Client ID	SB12W-45
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	0.51	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	0.69	1.0	0.5	n-Propyl benzene	0.59	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.7	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	0.80	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.60	1.0	0.5

Surrogate Recoveries (%)

%SS1:	87	%SS2:	100
%SS3:	83		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/16/09
		Date Analyzed 03/16/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-005B
Client ID	SB13-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	49	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	8.4	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	23	1.0	2.0	t-Butyl alcohol (TBA)	14	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	2.4	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	3.1	1.0	0.5	trans-1,2-Dichloroethene	2.1	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	2.7	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	1.7	1.0	0.5	Isopropylbenzene	2.1	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	1.2	1.0	0.5	n-Propyl benzene	1.7	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.8	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	1.2	1.0	0.5	Xylenes	0.88	1.0	0.5

Surrogate Recoveries (%)

%SS1:	85	%SS2:	100
%SS3:	88		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Extracted: 03/15/09
		Date Analyzed 03/15/09

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0903275

Lab ID	0903275-006B
Client ID	SB13W-48
Matrix	Water

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

Surrogate Recoveries (%)

%SS1:	84	%SS2:	104
%SS3:	96		

Comments: b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0404; J.W Silveira, Mel Senna Brakes Service	Date Sampled: 03/10/09-03/11/09
	Client Contact: Paul King	Date Received: 03/11/09
	Client P.O.:	Date Analyzed 03/12/09-03/18/09
		Date Extracted: 03/11/09

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C

Analytical methods: SW8015B

Work Order: 0903275

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0903275-001A	SB9-W	W	1400,e7,e11,e2,b1	2	98
0903275-002A	SB10-W	W	110,e2,b1	1	109
0903275-003A	SB12-W	W	760,e11,e7,b1	1	103
0903275-004A	SB12W-45	W	110,e7,e2,e11,b1	1	103
0903275-005A	SB13-W	W	610,e7,e11,e2,b1	2	86
0903275-006A	SB13W-48	W	ND,b1	1	107

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41967

WorkOrder 0903275

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0903275-002B			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND<1.0	10	90.7	95.5	5.20	91.6	98	6.69	70 - 130	30	70 - 130	30
Benzene	ND<1.0	10	112	116	3.16	109	115	4.70	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND<4.0	50	92.3	95	2.96	87.8	80.2	9.04	70 - 130	30	70 - 130	30
Chlorobenzene	ND<1.0	10	107	112	4.04	113	111	2.08	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND<1.0	10	107	112	4.76	108	104	3.54	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	1.2	10	108	115	5.23	105	107	2.10	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND<1.0	10	76.7	82.5	7.28	74.8	76.4	2.10	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND<1.0	10	94.5	99	4.61	96.4	92	4.64	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND<1.0	10	100	107	6.12	104	100	3.51	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND<1.0	10	97.7	101	3.44	99.2	98.1	1.05	70 - 130	30	70 - 130	30
Toluene	3.2	10	121	130	5.63	128	126	1.70	70 - 130	30	70 - 130	30
Trichloroethene	42	10	NR	NR	NR	102	108	5.26	70 - 130	30	70 - 130	30
%SS1:	86	25	89	92	3.36	81	80	1.15	70 - 130	30	70 - 130	30
%SS2:	99	25	96	99	2.53	98	95	2.92	70 - 130	30	70 - 130	30
%SS3:	80	2.5	90	89	1.02	86	89	3.35	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 41967 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903275-001B	03/10/09 3:10 PM	03/16/09	03/16/09 4:29 PM	0903275-002B	03/11/09 8:40 AM	03/16/09	03/16/09 5:11 PM
0903275-003B	03/10/09 9:35 AM	03/16/09	03/16/09 7:19 PM	0903275-004B	03/10/09 9:58 AM	03/16/09	03/16/09 8:01 PM
0903275-005B	03/10/09 2:25 PM	03/16/09	03/16/09 8:44 PM	0903275-006B	03/10/09 1:40 PM	03/15/09	03/15/09 1:32 AM

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

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41966

WorkOrder 0903275

Analyte	Extraction SW5030B			Spiked Sample ID: 0903275-006A								
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
TPH(btex) [£]	ND	60	95.1	90.8	4.61	111	109	2.53	70 - 130	20	70 - 130	20
MTBE	ND	10	96.3	94.4	1.99	103	104	0.590	70 - 130	20	70 - 130	20
Benzene	ND	10	91.1	91.4	0.307	92.5	97	4.79	70 - 130	20	70 - 130	20
Toluene	ND	10	80.9	82.6	1.99	94.8	103	7.84	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.7	93.8	0.0864	96.6	102	5.63	70 - 130	20	70 - 130	20
Xylenes	ND	30	89.6	89.5	0.0972	109	118	8.12	70 - 130	20	70 - 130	20
%SS:	101	10	98	98	0	101	102	0.266	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 41966 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903275-001A	03/10/09 3:10 PM	03/14/09	03/14/09 4:56 AM	0903275-002A	03/11/09 8:40 AM	03/15/09	03/15/09 7:47 AM
0903275-003A	03/10/09 9:35 AM	03/14/09	03/14/09 5:56 AM	0903275-004A	03/10/09 9:58 AM	03/14/09	03/14/09 6:25 AM
0903275-005A	03/10/09 2:25 PM	03/14/09	03/14/09 6:55 AM	0903275-006A	03/10/09 1:40 PM	03/14/09	03/14/09 7:25 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41946

WorkOrder 0903275

EPA Method SW8015B		Extraction SW3510C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.8	99.1	2.41	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	104	107	3.03	N/A	N/A	70 - 130	30

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

BATCH 41946 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903275-001A	03/10/09 3:10 PM	03/11/09	03/13/09 8:20 AM	0903275-002A	03/11/09 8:40 AM	03/11/09	03/18/09 10:47 AM
0903275-003A	03/10/09 9:35 AM	03/11/09	03/12/09 12:02 PM	0903275-004A	03/10/09 9:58 AM	03/11/09	03/13/09 6:38 PM
0903275-005A	03/10/09 2:25 PM	03/11/09	03/13/09 8:20 AM				

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

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

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

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

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



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41965

WorkOrder 0903275

EPA Method SW8015B		Extraction SW3510C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	104	97.9	5.70	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	106	104	1.26	N/A	N/A	70 - 130	30

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

BATCH 41965 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903275-006A	03/10/09 1:40 PM	03/11/09	03/12/09 3:28 AM				

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

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

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

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

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

3/20/2009

Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: J.W. Silviera
Project #: 0404
Workorder #: 0903356B

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 3/13/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

A handwritten signature in black ink that reads 'Kyle Vagadori'.

Kyle Vagadori
Project Manager



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0903356B

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	BILL TO:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	P.O. #	
FAX:	510-834-0772	PROJECT #	0404 J.W. Silveira
DATE RECEIVED:	03/13/2009	CONTACT:	Kyle Vagadori
DATE COMPLETED:	03/20/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG1	Modified TO-3	3.2 "Hg	15 psi
02A	SG1-DUP	Modified TO-3	3.0 "Hg	15 psi
03A	SG2	Modified TO-3	4.0 "Hg	15 psi
04A	SG3	Modified TO-3	4.8 "Hg	15 psi
05A	SG4	Modified TO-3	3.6 "Hg	15 psi
06A	SG5	Modified TO-3	4.4 "Hg	15 psi
06AA	SG5 Lab Duplicate	Modified TO-3	4.4 "Hg	15 psi
07A	SG6	Modified TO-3	13.6 "Hg	15 psi
08A	Lab Blank	Modified TO-3	NA	NA
09A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: 

DATE: 03/20/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

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

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
P & D Environmental
Workorder# 0903356B

Seven 1 Liter Summa Canister samples were received on March 13, 2009. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

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

<i>Requirement</i>	<i>TO-3</i>	<i>ATL Modifications</i>
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch <=/= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The recovery of surrogate Fluorobenzene in sample SG4 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SG1

Lab ID#: 0903356B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.16	0.66	23	94

Client Sample ID: SG1-DUP

Lab ID#: 0903356B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.056	0.23	16	67

Client Sample ID: SG2

Lab ID#: 0903356B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.48	66	270

Client Sample ID: SG3

Lab ID#: 0903356B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.24	0.98	110	450

Client Sample ID: SG4

Lab ID#: 0903356B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.15	0.63	72	300

Client Sample ID: SG5

Lab ID#: 0903356B-06A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.059	0.24	2.0	8.0



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SG5 Lab Duplicate

Lab ID#: 0903356B-06AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.059	0.24	2.0	8.3

Client Sample ID: SG6

Lab ID#: 0903356B-07A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.092	0.38	12	48



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1

Lab ID#: 0903356B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031715	Date of Collection: 3/9/09 1:05:00 PM
Dil. Factor:	6.46	Date of Analysis: 3/17/09 05:55 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.16	0.66	23	94

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1-DUP

Lab ID#: 0903356B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031716	Date of Collection:	3/9/09 1:18:00 PM
Dil. Factor:	2.24	Date of Analysis:	3/17/09 06:39 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.056	0.23	16	67

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	103	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2

Lab ID#: 0903356B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031717	Date of Collection: 3/9/09 2:08:00 PM
Dil. Factor:	4.66	Date of Analysis: 3/17/09 07:12 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.48	66	270

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	149	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG3

Lab ID#: 0903356B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031718	Date of Collection:	3/9/09 2:06:00 PM
Dil. Factor:	9.60	Date of Analysis:	3/17/09 07:47 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.24	0.98	110	450

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	135	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG4

Lab ID#: 0903356B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031719	Date of Collection: 3/9/09 4:14:00 PM
Dil. Factor:	6.13	Date of Analysis: 3/17/09 08:20 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.15	0.63	72	300

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	176 Q	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG5

Lab ID#: 0903356B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031720	Date of Collection:	3/10/09 4:28:00 PM
Dil. Factor:	2.37	Date of Analysis:	3/17/09 08:53 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.059	0.24	2.0	8.0

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	105	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG5 Lab Duplicate

Lab ID#: 0903356B-06AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031721	Date of Collection: 3/10/09 4:28:00 PM
Dil. Factor:	2.37	Date of Analysis: 3/17/09 09:26 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.059	0.24	2.0	8.3

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	107	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG6

Lab ID#: 0903356B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031722	Date of Collection: 3/11/09 12:48:00 PM
Dil. Factor:	3.70	Date of Analysis: 3/17/09 09:58 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.092	0.38	12	48

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0903356B-08A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/17/09 11:11 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0903356B-09A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d031705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/17/09 10:12 AM

Compound	%Recovery
TPH (Gasoline Range)	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

3/26/2009

Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: J.W. Silviera
Project #: 0404
Workorder #: 0903356A

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 3/13/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

A handwritten signature in black ink that reads 'Kyle Vagadori'.

Kyle Vagadori
Project Manager

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0903356A

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	BILL TO:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	P.O. #	
FAX:	510-834-0772	PROJECT #	0404 J.W. Silveira
DATE RECEIVED:	03/13/2009	CONTACT:	Kyle Vagadori
DATE COMPLETED:	03/26/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG1	Modified TO-15	3.2 "Hg	15 psi
02A	SG1-DUP	Modified TO-15	3.0 "Hg	15 psi
02AA	SG1-DUP Lab Duplicate	Modified TO-15	3.0 "Hg	15 psi
03A	SG2	Modified TO-15	4.0 "Hg	15 psi
04A	SG3	Modified TO-15	4.8 "Hg	15 psi
05A	SG4	Modified TO-15	3.6 "Hg	15 psi
06A	SG5	Modified TO-15	4.4 "Hg	15 psi
07A	SG6	Modified TO-15	13.6 "Hg	15 psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 03/26/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
P & D Environmental
Workorder# 0903356A

Seven 1 Liter Summa Canister samples were received on March 13, 2009. 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.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
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

There were no receiving discrepancies.

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.

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.
- 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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: SG1

Lab ID#: 0903356A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	9.0	22	29	70
Toluene	9.0	2600	34	9700
Ethyl Benzene	9.0	86	39	380
m,p-Xylene	9.0	260	39	1100
o-Xylene	9.0	71	39	310

Client Sample ID: SG1-DUP

Lab ID#: 0903356A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	5.0	17	16	54
Toluene	5.0	1500	19	5500
Ethyl Benzene	5.0	58	22	250
m,p-Xylene	5.0	180	22	770
o-Xylene	5.0	50	22	220

Client Sample ID: SG1-DUP Lab Duplicate

Lab ID#: 0903356A-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	2.2	16	7.2	53
Toluene	2.2	1500 E	8.4	5800 E
Ethyl Benzene	2.2	56	9.7	240
m,p-Xylene	2.2	180	9.7	760
o-Xylene	2.2	50	9.7	220

Client Sample ID: SG2

Lab ID#: 0903356A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	2.6	3.1	18	21
Benzene	2.6	43	8.3	140
Toluene	2.6	860	9.8	3200
Ethyl Benzene	2.6	43	11	190
m,p-Xylene	2.6	140	11	630



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: SG2

Lab ID#: 0903356A-03A

o-Xylene	2.6	60	11	260
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Client Sample ID: SG3

Lab ID#: 0903356A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	4.8	14	15	46
Toluene	4.8	1800	18	6600
Ethyl Benzene	4.8	66	21	280
m,p-Xylene	4.8	210	21	930
o-Xylene	4.8	71	21	310

Client Sample ID: SG4

Lab ID#: 0903356A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	5.8	47	18	150
Toluene	5.8	1900	22	7100
Ethyl Benzene	5.8	93	25	400
m,p-Xylene	5.8	310	25	1400
o-Xylene	5.8	100	25	460

Client Sample ID: SG5

Lab ID#: 0903356A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	3.0	8.0	20
Benzene	1.2	15	3.8	49
Toluene	1.2	190	4.5	710
Ethyl Benzene	1.2	12	5.1	50
m,p-Xylene	1.2	38	5.1	170
o-Xylene	1.2	10	5.1	45

Client Sample ID: SG6

Lab ID#: 0903356A-07A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: SG6

Lab ID#: 0903356A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	4.4	9.8	14	31
Toluene	4.4	1200	16	4400
Ethyl Benzene	4.4	38	19	160
m,p-Xylene	4.4	120	19	510
o-Xylene	4.4	37	19	160



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1

Lab ID#: 0903356A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032411	Date of Collection: 3/9/09 1:05:00 PM
Dil. Factor:	18.1	Date of Analysis: 3/24/09 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	9.0	Not Detected	61	Not Detected
2-Propanol	36	Not Detected	89	Not Detected
Methyl tert-butyl ether	9.0	Not Detected U J	33	Not Detected U J
Benzene	9.0	22	29	70
Toluene	9.0	2600	34	9700
Ethyl Benzene	9.0	86	39	380
m,p-Xylene	9.0	260	39	1100
o-Xylene	9.0	71	39	310
Trichloroethene	9.0	Not Detected	49	Not Detected
cis-1,2-Dichloroethene	9.0	Not Detected	36	Not Detected
trans-1,2-Dichloroethene	9.0	Not Detected	36	Not Detected
Vinyl Chloride	9.0	Not Detected	23	Not Detected
Naphthalene	36	Not Detected	190	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1-DUP

Lab ID#: 0903356A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032412	Date of Collection: 3/9/09 1:18:00 PM
Dil. Factor:	9.96	Date of Analysis: 3/24/09 05:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Methyl tert-butyl ether	5.0	Not Detected U J	18	Not Detected U J
Benzene	5.0	17	16	54
Toluene	5.0	1500	19	5500
Ethyl Benzene	5.0	58	22	250
m,p-Xylene	5.0	180	22	770
o-Xylene	5.0	50	22	220
Trichloroethene	5.0	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1-DUP Lab Duplicate

Lab ID#: 0903356A-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032410	Date of Collection:	3/9/09 1:18:00 PM
Dil. Factor:	4.48	Date of Analysis:	3/24/09 04:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	2.2	Not Detected	15	Not Detected
2-Propanol	9.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	2.2	Not Detected U J	8.1	Not Detected U J
Benzene	2.2	16	7.2	53
Toluene	2.2	1500 E	8.4	5800 E
Ethyl Benzene	2.2	56	9.7	240
m,p-Xylene	2.2	180	9.7	760
o-Xylene	2.2	50	9.7	220
Trichloroethene	2.2	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	2.2	Not Detected	8.9	Not Detected
trans-1,2-Dichloroethene	2.2	Not Detected	8.9	Not Detected
Vinyl Chloride	2.2	Not Detected	5.7	Not Detected
Naphthalene	9.0	Not Detected	47	Not Detected

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

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2

Lab ID#: 0903356A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032415	Date of Collection: 3/9/09 2:08:00 PM
Dil. Factor:	5.18	Date of Analysis: 3/24/09 08:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	2.6	3.1	18	21
2-Propanol	10	Not Detected	25	Not Detected
Methyl tert-butyl ether	2.6	Not Detected U J	9.3	Not Detected U J
Benzene	2.6	43	8.3	140
Toluene	2.6	860	9.8	3200
Ethyl Benzene	2.6	43	11	190
m,p-Xylene	2.6	140	11	630
o-Xylene	2.6	60	11	260
Trichloroethene	2.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Vinyl Chloride	2.6	Not Detected	6.6	Not Detected
Naphthalene	10	Not Detected	54	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG3

Lab ID#: 0903356A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032416	Date of Collection: 3/9/09 2:06:00 PM
Dil. Factor:	9.62	Date of Analysis: 3/24/09 09:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	4.8	Not Detected	33	Not Detected
2-Propanol	19	Not Detected	47	Not Detected
Methyl tert-butyl ether	4.8	Not Detected U J	17	Not Detected U J
Benzene	4.8	14	15	46
Toluene	4.8	1800	18	6600
Ethyl Benzene	4.8	66	21	280
m,p-Xylene	4.8	210	21	930
o-Xylene	4.8	71	21	310
Trichloroethene	4.8	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Vinyl Chloride	4.8	Not Detected	12	Not Detected
Naphthalene	19	Not Detected	100	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	92	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG4

Lab ID#: 0903356A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032420	Date of Collection: 3/9/09 4:14:00 PM
Dil. Factor:	11.5	Date of Analysis: 3/25/09 12:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	5.8	Not Detected	39	Not Detected
2-Propanol	23	Not Detected	56	Not Detected
Methyl tert-butyl ether	5.8	Not Detected U J	21	Not Detected U J
Benzene	5.8	47	18	150
Toluene	5.8	1900	22	7100
Ethyl Benzene	5.8	93	25	400
m,p-Xylene	5.8	310	25	1400
o-Xylene	5.8	100	25	460
Trichloroethene	5.8	Not Detected	31	Not Detected
cis-1,2-Dichloroethene	5.8	Not Detected	23	Not Detected
trans-1,2-Dichloroethene	5.8	Not Detected	23	Not Detected
Vinyl Chloride	5.8	Not Detected	15	Not Detected
Naphthalene	23	Not Detected	120	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	92	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG5

Lab ID#: 0903356A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032418	Date of Collection:	3/10/09 4:28:00 PM
Dil. Factor:	2.37	Date of Analysis:	3/24/09 10:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	3.0	8.0	20
2-Propanol	4.7	Not Detected	12	Not Detected
Methyl tert-butyl ether	1.2	Not Detected U J	4.3	Not Detected U J
Benzene	1.2	15	3.8	49
Toluene	1.2	190	4.5	710
Ethyl Benzene	1.2	12	5.1	50
m,p-Xylene	1.2	38	5.1	170
o-Xylene	1.2	10	5.1	45
Trichloroethene	1.2	Not Detected	6.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Naphthalene	4.7	Not Detected	25	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	91	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG6

Lab ID#: 0903356A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032419	Date of Collection: 3/11/09 12:48:00 PM
Dil. Factor:	8.70	Date of Analysis: 3/24/09 11:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	4.4	Not Detected	30	Not Detected
2-Propanol	17	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.4	Not Detected U J	16	Not Detected U J
Benzene	4.4	9.8	14	31
Toluene	4.4	1200	16	4400
Ethyl Benzene	4.4	38	19	160
m,p-Xylene	4.4	120	19	510
o-Xylene	4.4	37	19	160
Trichloroethene	4.4	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	4.4	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	4.4	Not Detected	17	Not Detected
Vinyl Chloride	4.4	Not Detected	11	Not Detected
Naphthalene	17	Not Detected	91	Not Detected

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	92	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0903356A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032408	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/09 02:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	0.50	Not Detected U J	1.8	Not Detected U J
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	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
Trichloroethene	0.50	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	128	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0903356A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/09 09:51 AM

Compound	%Recovery
Tetrachloroethene	92
2-Propanol	97
Methyl tert-butyl ether	66 Q
Benzene	90
Toluene	91
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	91
Trichloroethene	92
cis-1,2-Dichloroethene	93
trans-1,2-Dichloroethene	88
Vinyl Chloride	98
Naphthalene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0903356A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d032406	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/09 01:05 PM

Compound	%Recovery
Tetrachloroethene	90
2-Propanol	99
Methyl tert-butyl ether	83
Benzene	89
Toluene	94
Ethyl Benzene	88
m,p-Xylene	89
o-Xylene	88
Trichloroethene	92
cis-1,2-Dichloroethene	94
trans-1,2-Dichloroethene	86
Vinyl Chloride	95
Naphthalene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	96	70-130