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Alameda County Environmental Health

#### **INTERIM SOURCE REMOVAL REPORT**

3442 Adeline Street Oakland, CA 94608

Project No. 281939

Prepared For

Ms. Steffi Zimmerman 6330 Swainland Road Oakland, CA 94611

Prepared By

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#### **1.0** INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Ms. Steffi Zimmerman, the owner of the property located at 3442 Adeline Street in the City of Oakland, Alameda County, California. AEI has been retained by Ms. Zimmerman to provide environmental engineering and consulting services relating to the release of gasoline from a former underground storage tank (UST) on the property.

Previous site investigations have identified a release of gasoline from the former UST. Following an onsite meeting with the ACEH on March 19, 2008, AEI prepared a work plan for source area removal and installation of groundwater monitoring wells. This report summarizes the source removal activities in March and soil and Water disposal in and April and May 2009.

### 2.0 SITE DESCRIPTION

The subject site (hereinafter referred to as the "site" or "property") is situated on the northeast corner of 35<sup>th</sup> Street and Chestnut Street in a mixed commercial, industrial and residential area of Oakland. The Main entrance to the property is on 3442 Adeline St.. A second entrance is located at 3433 Chestnut St. The on-site building covers approximately 65% of the property and is currently a. Refer to Figure 2 for an aerial photo of the property and Figure 3, Site Map.

#### 2.1 UST Removal

On February 22, 2000, Clearwater supervised the excavation and removal of a single-wall 3,750 gallon UST. Soil samples and a groundwater sample was collected from the excavation pit and analyzed for total petroleum hydrocarbons as gasoline (TPH-g), as diesel (TPH-d), methyl tertiary butyl ether (MTBE) and BTEX (benzene, toluene, ethyl benzene, and total xylenes). Soil analyses reported concentrations of TPH-g, TPH-d and benzene at concentrations up to 920 milligrams per kilogram (mg/kg), 850 mg/kg, and 0.3 mg/kg, respectively. TPH-g, TPH-d, and benzene were reported in the excavation groundwater sample at concentrations of 7,400 micrograms per liter ( $\mu$ g/L), 34,000  $\mu$ g/L, and 3,300  $\mu$ g/L, respectively.

Following receipt of the tank removal report, the City of Oakland Fire Department requested (May 15, 2006) requested additional soil and groundwater samples to further characterize the site. The location of the former UST and sample locations are presented in Figure 3

#### 2.2 Clearwater Phase II Investigation

In June, 2006 Clearwater Group (Clearwater) performed a Phase II Environmental Site Investigation. Four (4) additional soil borings (S1 - S4) were drilled on June 23, 2006. The location of soil borings are shown in Figure 3. Analysis of groundwater samples reported TPH-g and benzene at concentrations up to 120,000  $\mu$ g/L and 7,000  $\mu$ g/L, respectively. TPH-d was reported as non-detectable at elevated reporting limits

#### 2.3 AEI Consultants Site Investigation

In October and December of 2007 and May of 2008, AEI performed additional site investigations to further define the nature and extent of the release. A total of thirty-one soil borings (SB-1 through SB-22) have been advanced to an approximate depth of 16 feet bgs and three (3) soil vapor samples collected from within the building. Soil boring locations are shown on Figure 3.

The maximum concentrations of TPH-g, TPH-d, and BTEX reported in soil were 1,200 mg/kg, 450 mg/kg, 6.9 mg/kg, 2.5 mg/kg, 24 mg/kg and 110 mg/kg, respectively. MTBE was reported at a concentration of 0.14 mg/kg in one sample, SB-11-15.5.

The maximum concentrations of TPH-g, TPH-d and BTEX reported in groundwater were 83,000  $\mu$ g/L, 12,000  $\mu$ g/L, 10,000  $\mu$ g/L, 640  $\mu$ g/L, 2,700  $\mu$ g/L and 7,900  $\mu$ g/L, respectively. No MTBE was reported in groundwater samples from any of the soil borings

The maximum concentrations of TPH-g, TPH-d and BTEX reported in soil vapor samples were 3,100  $\mu$ g/m<sup>3</sup>, 130  $\mu$ g/m<sup>3</sup>, 42  $\mu$ g/m<sup>3</sup>, 16  $\mu$ g/m<sup>3</sup>, and 49  $\mu$ g/L, respectively. No MTBE was reported in soil vapor samples.

Soil and groundwater analytical data indicates gasoline plume in the soil and groundwater trend in a west to northwesterly direction, beneath the warehouse building on the property. TPH-g concentrations decrease rapidly to the north, south and east of the former UST. The results of these and previous soil, soil vapor, and groundwater analyses can be found in Well Installation Report. Soil boring locations are shown on Figure 3.

#### 2.4 Well Installation

AEI installed seven groundwater monitoring wells and one sparge well during April and May 2009. The locations of the wells are shown on Figure 3. The details of the well installation are summarized in Groundwater Monitoring Well Installation Report.

#### 3.0 GEOLOGY AND HYDROLOGY

The site lies on the distal end of the Temescal Creek Alluvial Fan at approximately 45 feet above mean seal level (amsl). The Temescal Alluvial Fan is a low relief broad fan sloping westerly and southwesterly from the mouth of the Temescal Creek. The Holocene age alluvial fan deposits are mapped as Qhaf (Helley 1997). The sediments are described as typically, brown to tan gravelly sand or sandy gravel, which generally grades upward into sandy or silty clay.

The sediments in the upper four (4) to five (5) feet underlying the site are black silty clay - clayey silt containing variable amounts of scattered gravel. These sediments are considered to be bay margin sediments.

The shallow fine grained surface layer is underlain by alluvial deposits of intercalated, lenticular bodies of silt, clay, sand, and gravel. The sediments are typically highly variable mixtures of the four primary lithologies. Permeability (transmissivity) of the coarse grained sediments is typically low due to the presence of interstitial clay; however scattered clean sands and gravels are present with good permeability. These permeable bodies appear to act as preferential channels for groundwater flow across the site and are the likely cause of the slightly sinuous, asymmetric appearance of the hydrocarbon plume in the soil and groundwater.

Groundwater was encountered in all borings; however the borings were slow to produce water and in some cases several days were required to accumulate sufficient water to allow collection of groundwater samples. Groundwater elevations range from 24.11 feet amsl (6.53 ft bgs) in well MW-7, located in Chestnut Street to the east, to 19.36 ft amsl (9.98 ft bgs) in well MW-6 adjacent to Adeline Street to the West. Groundwater flow direction is in a westerly direction at an average gradient of 0.019ft/ft.

#### 4.0 Environmental Concerns

#### 4.1 Soil

Based on the results of previous investigations significant concentrations of hydrocarbon contamination have been identified in the shallow soil, typically between a depth 5 feet and 12 feet bgs with only occasional significant impact identified below 12 feet bgs. Maximum hydrocarbon concentrations reported in the tank removal samples were samples for TPH-g, TPH-d, and benzene were 920 mg/kg, 850 mg/kg, and 0.3 mg/kg, respectively. Maximum hydrocarbon concentrations reported in soil boring samples were 1,200 mg.kg, 450 mg/kg, and 6.9 mg/kg, respectively for TPH-g, TPH-d, and benzene. The distribution of hydrocarbons in the soil is variable and appears related to variations in lithology and permeability.

#### 4.2 Groundwater

Maximum concentrations of TPH-g and BTEX reported in groundwater samples from soil borings were 120,000  $\mu$ g/L (S-4), 10,000  $\mu$ g/L (SB-11) 930  $\mu$ g/L (SB-11), 3,500  $\mu$ g/L(S-4), and 7,900  $\mu$ g/L (SB-11), respectively. No MTBE has been reported in groundwater samples.

The primary contaminant reported in soil and groundwater analyses is a gasoline range fuel with related BTEX. Diesel range hydrocarbons are typically reported at significantly lower concentration than TPH-g and examination of chromatograph charts from several of the wells concentration found no indication of diesel present. Chart patterns that are consistent with a gasoline range fuel release.

An exception to the rule of higher gasoline concentrations and significantly lower diesel concentrations is seen water samples from soil borings SB-16, SB-18 and SB-19. These borings are located on the eastern up gradient edge of the plume in Chestnut Street and are up gradient of the former UST location. The analytical reports of diesel range hydrocarbons in

these samples typically carry laboratory flags indicating the presence of oil range hydrocarbons. The analyses for these samples were re-quantified as diesel and motor oil. The re-quantified results for these samples reported motor oil at significantly higher concentration than either gasoline or diesel. Examination of the chromatograph charts for these three samples show the presence of a hydrocarbon centered in the overlap of diesel motor oil ranges. These heavier than gasoline and diesel range hydrocarbons suggest a release up gradient of the site, probably of heating oil.

The calculated direction of groundwater flow is to the west, however the orientation of the hydrocarbon plume and hydrocarbon distribution in the groundwater indicates that the actual groundwater flow is sinuous and appears to follow permeability channels (sands and gravels).

Depth to groundwater ranges from 6.53 feet bgs (MW-7, 24.51 ft amsl) to 9.98 feet bgs (MW-6, 19.36 ft amsl.

#### 5.0 SCOPE OF WORK

The scope of work for this project consisted of the following:

- Excavation of clean shallow soil to a depth of approximately 3.5 4.0 feet and stockpile soil for re-use.
- Excavation of impacted soil to a depth of approximately 12 12.5 feet bgs.
- De-water excavation and store water onsite pending disposal.
- Place 3-4 feet of permeable fill in the bottom of excavation to support the excavation sidewalls and to allow maintenance of existing groundwater movements in the Shallow Groundwater Zone.
- Installation of five (5) 4-inch diameter PVC casings to allow monitoring of groundwater in excavation and for possible use to remediate residual hydrocarbons.
- Backfilled the remainder of the excavation with engineered fill to a depth of 6-inches below grade.
- Characterization and disposal of excavated soil and water resulting from de-watering of excavation.

#### 6.0 EXCAVATION

#### 6.1 Excavation

The concrete floor slab overlying the excavation area was cut and removed by the client in February 2009 (Figures 3 & 4). Beginning on March 2, 2009 the surface layer of non-impacted soil was removed from the excavation and stockpiled to the northwest in the corner of the building. The shallow soil was excavated to a depth of approximately 4.0 feet bgs to 4.5 feet bgs, the depth below which field screening with a photo-ionization detector (PID) exceeded 100 ppmv. Field screening concentrations at depths between 5 and 6 feet bgs ranged from 110 ppmv

to 2,100 ppmv. The locations of field screenings samples and vapor concentrations are show on Figure 5. Soil samples from the vadose zone were field screened with PID reading ranging from 500 ppmv to 2,000 ppmv. The locations of screening samples are shown on Figure 5.

On March 9, 2009, three (3) sets of four (4) discrete soil samples were collected from shallow stockpiled soil to confirm its acceptance for re-use as backfill in the excavation. Analysis of the samples reported TPH-g, and MBTEX at concentrations up to 9.0 mg/kg, ND<0.05 mg/kg, 0.18 mg/kg, 0.049 mg/kg, 0.087 mg/kg, and 0.27 kg/kg respectively meeting the regional water quality control boards guideline for re-use of soil on impacted sites. The results of the chemical analyses are shown on Table 1. Copies of the analytical reports are included in Appendix A.

The impacted soil was removed in sections beginning in the south end of the excavation proceeding northward. During excavation the impacted soil was temporarily stockpiled at under the roofed over area adjacent to Adeline Street pending profiling and disposal after the excavation was backfilled. Soil was excavated to yellowish brown soil at a depth of approximately 12 - 13 feet bgs, the depth at which field screening of soil at the bottom of the excavation reported PID readings below 100 ppmv.

Following excavation of impacted soil to apparent clean soil in each section, the excavation was backfilled with <sup>3</sup>/<sub>4</sub> inch drain rock to a depth of approximately 9 feet bgs prior to excavation of the next section. During the emplacement of the permeable fill in each section of the excavation, a section of 0.020-inch factory slotted, 4-inch diameter, schedule 40 PVC with a blank riser was installed in a sump at a depth of approximately 13 feet bgs to allow the excavation to be kept free of water. Five (5) temporary casings (BF-1 through BF-5) were installed during excavation under permit from the Alameda County PWD. The locations of the backfill casings are shown on Figure 6.

The excavation had overall dimensions of 35 feet by 70 feet with 9 feet indentation by sixteen feet indentation in the northeast corner around the facility bathroom. Impacted soil was excavated to an average depth of 12 feet with an estimated volume of soil removed of 982.09 cubic yards.

#### 6.2 Confirmation Sampling

During excavation, soil samples were collected from the side walls of the excavation to confirm the extent to which impacted soil was being removed. Soil was sampled at a approximately 20 foot intervals along the sides of the excavation at depths of approximately 7 feet bgs and 11.5 feet bgs. A total of 19 soil samples were collected from the excavation side walls and 3 soil samples were collected from the bottom of the excavation. No groundwater was collected from the excavation during excavation activities, but a light sheen of free product was seen on the water seeping into the pit during excavation. The results of the confirmation soil sample analyses are shown in Table 2. Copies of the analytical reports are included in Appendix B.

#### 6.3 Excavation Backfill

As described above, the excavation was backfilled a permeable bridge of <sup>3</sup>/<sub>4</sub>-inch drain rock at the bottom of the excavation, approximately four feet of drain rock was placed in the bottom of excavation. A layer of geo-textile fabric was then placed over the drain rock and the excavation was back-filled to a depth of 7 feet bgs with compacted Class II base rock. Three horizontal SVE wells were installed along the north, east and south sides of the excavation as described below. The purpose of the casing was allow evaluation of the vadose zone adjacent to the excavation in the same interval that field screening indicated the presence of significant concentrations of hydrocarbons. The shallow stockpiled soil and recycled Class II base rock was used to fill the excavation to approximately three feet bgs. The broken concrete from the former floor was placed in a single layer across the excavation then covered with engineered fill to the bottom of the adjacent existing floor. A concrete slab will be installed by the client to match the adjacent floor.

#### 6.4 Backfill Wells

During the emplacement of the 3/4-inch drain rock permeable bridge in the bottom of each section excavated, a four foot section of 0.020-inch factory slotted, 4-inch diameter, schedule 40 PVC and blank riser was installed in a sump at a depth of approximately 13 feet bgs to allow the excavation to be dewatered. Flush mounted well boxes will be placed at the surface to protect the well heads when the final concrete slab is poured by the client.

#### 6.5 Horizontal SVE Wells

When the excavation was backfilled to a depth of 7 feet bgs, three horizontal SVE wells were installed along the north, east and south sides of the excavation to allow evaluation and possible remediation of high VOC vapor concentrations seen during field screening of this interval. The horizontal wells consisted of four-inch schedule 40 PVC 0.010 slotted casing with 4-inch blank risers at each end of the horizontal section. The horizontal casings were covered by approximately one foot of pea gravel then covered with geotextile fabric then backfilling of the excavation was completed.

On April 27, 2009, concentrations of VOCs, oxygen and CO2 in the soil vapor of the SVE casings were measured to determine hydrocarbon concentrations and potential for remediation of hydrocarbons in the vadose zone. Vapor concentrations were measured by placing a 4-inch to <sup>1</sup>/<sub>4</sub>-inch reducing fitting on one end of a horizontal SVE well with an end cap on the other. A vacuum was placed on the well casing using a peristaltic pump. An Eagle vapor meter capable of measuring parts per vapor million (ppmv) range organic vapor concentration , as well as percent concentrations of oxygen (O<sub>2</sub>), carbon dioxide (CO<sub>2</sub>), and methane (CH<sub>4</sub>) was attached to the discharge side of the pump as shown on Figure 8. A Tedlar bag sample was collected from each well and submitted for analysis to McCampbell Analytical, in Pittsburg, CA. Field VOC concentrations reported ranged from 60 ppmv (SVE-1) to 55 ppmv (SVE-3). Oxygen was reported at concentrations of 10.7 % (SVE-1) to 8.9 % (SVE-3) and CO2 at concentrations of 7.7 % (SVE-1) to 8.1 % (SVE-2). Re-measurement of the gases in the SVE casings on June 6, 2009 reported VOCs as less than at 1 ppmv, and average oxygen and CO2 measurements of 14.26 % and 6.03 %, respectively.

Analysis of the Tedlar bag vapor samples from SVE-2, SVE-2 and SVE-3 reported TPH-g at concentrations of 51  $\mu$ g/L, 48  $\mu$ g/L, and ND <25  $\mu$ g/L.

The results of vapor sampling from the SVE wells are summarized on Table 3. Field data sheets for SVE casing measurements and vapor analyses are attached in Appendix C.

#### 7.0 TREATMENT AND DISPOSAL OF GROUNDWATER FROM EXCAVATION

De-watering activities during excavation produced approximately 5,000 gallons of water which was stored on site in a Baker Tank. Laboratory analysis of a water sample from the tank on March 11, 2009 reported TPH-g and MBTEX at concentrations of 3,500 µg/L, ND<90 µg/L, 750 µg/L, 24 µg/L, 15 µg/L, and 180  $\mu$ g/L, respectively. April 1, 2009 the water in the tank was treated with approximately 25 gallons of 50% hydrogen peroxide to reduce TPH, and MBTEX to concentrations to East Bay Municipal Utility District (EBMUD). Re-sampling of the water in the tank on April 15, 2009 reported TPH-g and MBTEX at concentrations of 200  $\mu$ g/L, 5.7 µg/L, 30 µg/L, 1.5 µg/L, 0.60 µg/L, and 11 µg/L, respectively. On April 23, 2009 20 additional gallons of 50% hydrogen peroxide were mixed into the tank. Resampling of water in the tank on April 30, 2009 reported TPH, MTBE and BTEX at concentrations of ND<50  $\mu$ g/L, ND<5.0  $\mu$ g/L, 2.6  $\mu$ g/L, 0.57  $\mu$ g/L, ND<0.5  $\mu$ g/L, and 3.1  $\mu$ g/L, respectively. The water was disposed into the EBMUD sanitary sewer on May 5, 2009, under EBMUD permit No. 50642901. The results of analysis of extracted groundwater samples are summarized on Table 4. A copy of the water analyses and disposal permit are attached in Appendix D.

#### 8.0 SOIL DISPOSAL

The stockpiled soil excavated from below a depth of 4.5 feet bgs was divided into three equal sections. Three groups of four (4) discrete soil samples were collected and composited by the laboratory into four-point composite samples (STKA1234, STKB1234, STKC1234) to characterize the soil for disposal. TPH-g, benzene was reported in composite samples STKA1234, STKB1234, STKC1234 at concentrations of 43 mg/kg and 0.17 mg/kg; 31 mg/kg and 0.044 mg/kg; 60 mg/kg and 0.25 mg/kg, respectively. Copies of the soil analyses are attached as Appendix E. 745.37 tons of soil (STKA1234, STKB1234) were transported under bill of lading to West Contra Costa Sanitary Landfill, Inc, Richmond California. 352.84 tons of soil (STKC1234) was transported to Keller Canyon Landfill under non-hazardous waste manifest. The results of analysis of the impacted stockpile samples are summarized on Table 1. Copies of the analytical results and disposal manifests are attached in Appendix F.

### 9.0 PERMEABLE BRIDGE TREATMENT

A groundwater sampled was collected from backfill casing BF-1 on March 27, 2009. Laboratory analysis reported TPH-g, TPH-d and MBTEX at concentrations of 19,000  $\mu$ g/L, ND<250  $\mu$ g/L, 890  $\mu$ g/L, 27  $\mu$ g/L, 460  $\mu$ g/L, and 1,200  $\mu$ g/L, respectively. On April 1, 2009 the water in the permeable bridge was treated with approximately 75 gallons of 50% hydrogen peroxide was mixed into the permeable bridge by injecting it into groundwater being circulated from BF-5 to BF-1. The purpose of the injection of the hydrogen peroxide was to remove the free product observed during excavation and to determine circulation of groundwater through the permeable bridge could be used to intercept and treat groundwater migrating down gradient from former tank hold. On June 22, 2009, BF-1 was re-sampled with analysis reporting TPH-g and MBTEX at concentrations of 6,700  $\mu$ g/L, ND<150  $\mu$ g/L, 840  $\mu$ g/L, 19  $\mu$ g/L, 170  $\mu$ g/L, and 150  $\mu$ g/L, respectively.

On August 10, 2009, casings BF-1 and BF-5 were re-sampled. TPH-g and MBTEX were reported in BF-1 at concentrations of 11,000  $\mu$ g/L, ND<120  $\mu$ g/L, 710  $\mu$ g/L, 14  $\mu$ g/L, 440  $\mu$ g/L, and 290  $\mu$ g/L, respectively. TPH-g and MBTEX were reported in BF-5 at concentrations of 170  $\mu$ g/L, ND<25  $\mu$ g/L, 32  $\mu$ g/L, 0.55  $\mu$ g/L, 4.2  $\mu$ g/L, and 0.81  $\mu$ g/L, respectively.

The results of analysis of backfill casing groundwater samples are summarized on Table 4. Copies of the backfill well water sample analytical reports are attached as Appendix G.

## **10.0 HEALTH AND SAFETY PLAN**

AEI prepared a site specific Health and Safety Plan (HASP) conforming to Part 1910.120 (i) (2) of 29 CFR. Prior to commencement of field activities, a site safety meeting was held at a designated command post near the working area. The HASP was discussed and emergency procedures will be reviewed at this meeting, including an explanation of the hazards of the known or suspected chemicals of interest. All site personnel were in modified Level D personal protection equipment, which is the anticipated maximum amount of protection needed. A working area was established with bright orange cones, barricades and/or warning tape to delineate the zone where hard hats, steel-toed shoes and eye protection must be worn at all times, as well as where unauthorized personnel were not be allowed. The site HASP was onsite and available at all times during the project.

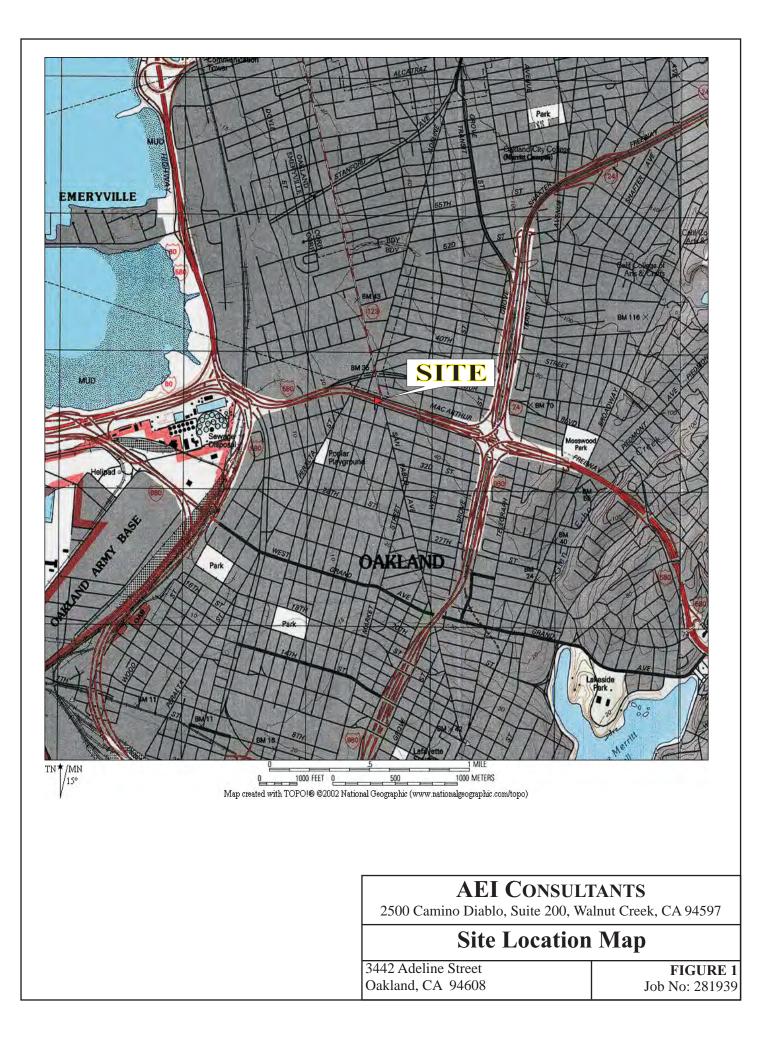
#### **11.0 RECOMMENDATIONS**

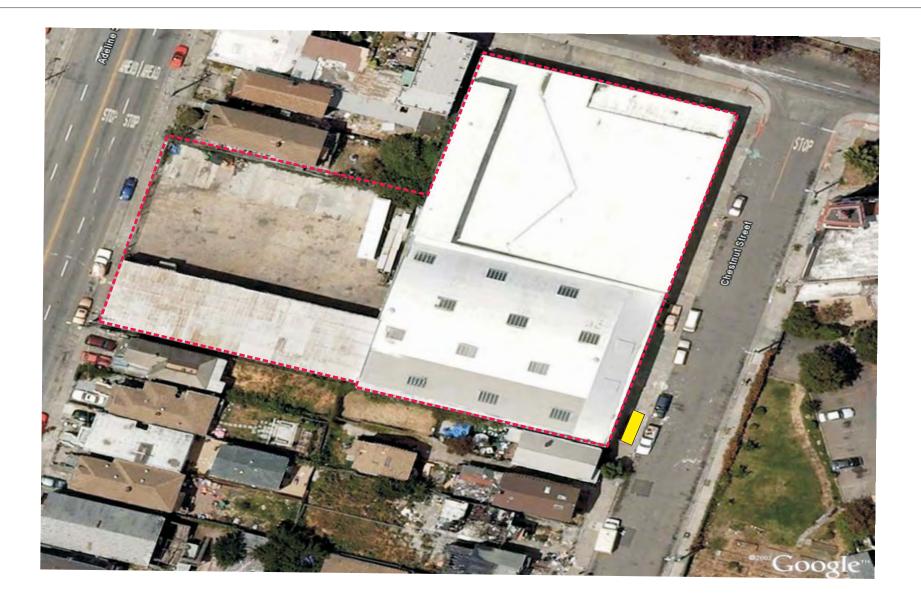
AEI recommends that the oxygen concentrations in the excavations permeable backfill bridge be kept elevated to enhance the natural biodegration, there by reducing the residual hydrocarbons remaining and allowing closure of the site.

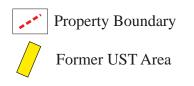
Sincerely, AEI Consultants

Dusty Ry Dusty Roy Kirby-Fernando Project Manager Director, Construction GE F No. 5825 Robert F. Flory, PG Senior Geologist OF

FIGURES







Approximate Scale: 1 inch = 55 feet

0'

55'

**AEI CONSULTANTS** 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

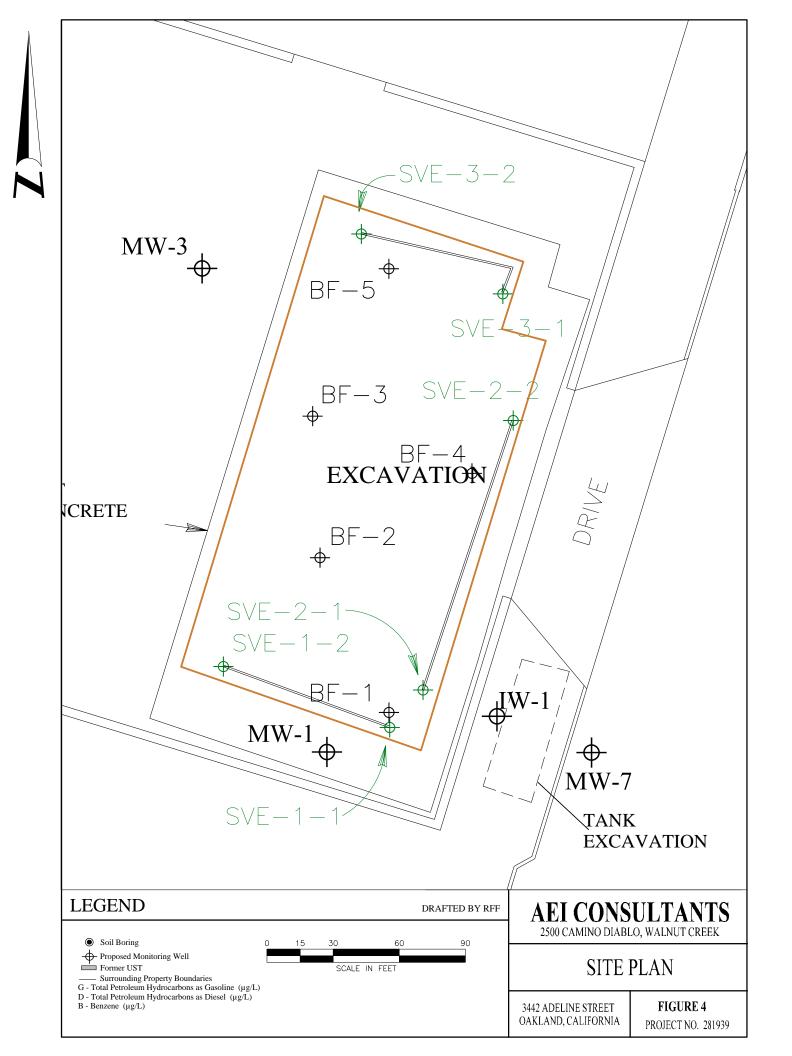
## Site Vicinity Map

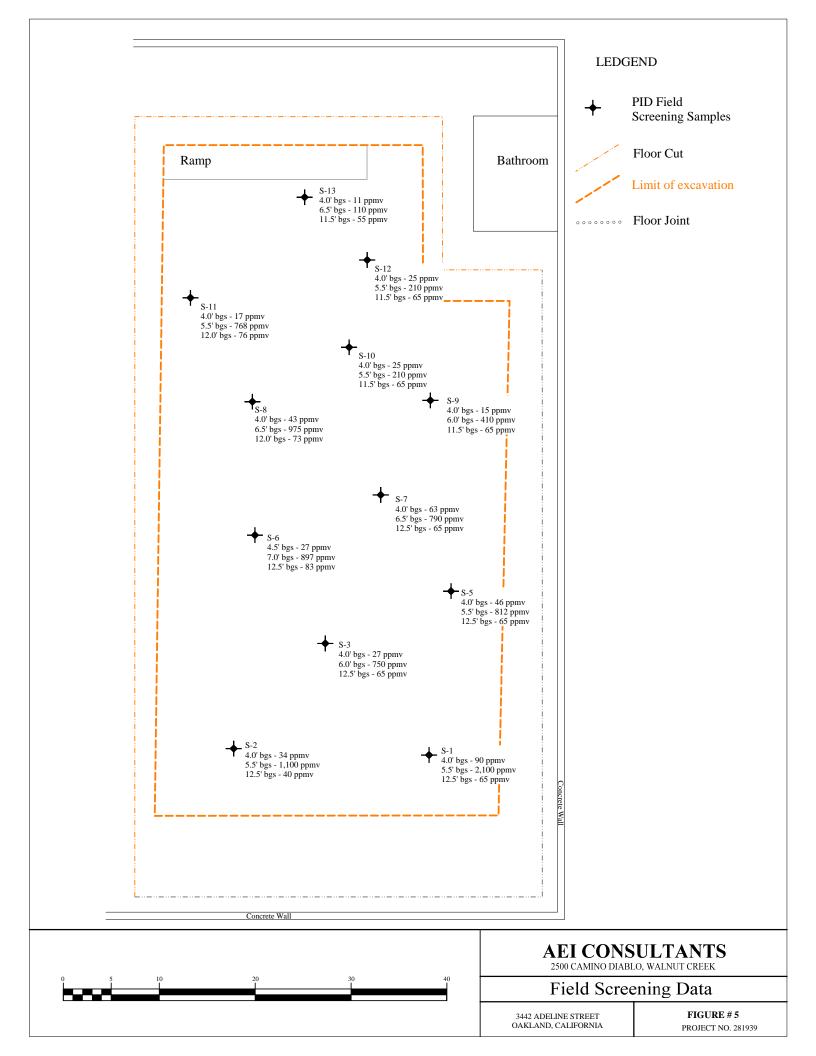
3442 Adeline Street Oakland, CA 94608

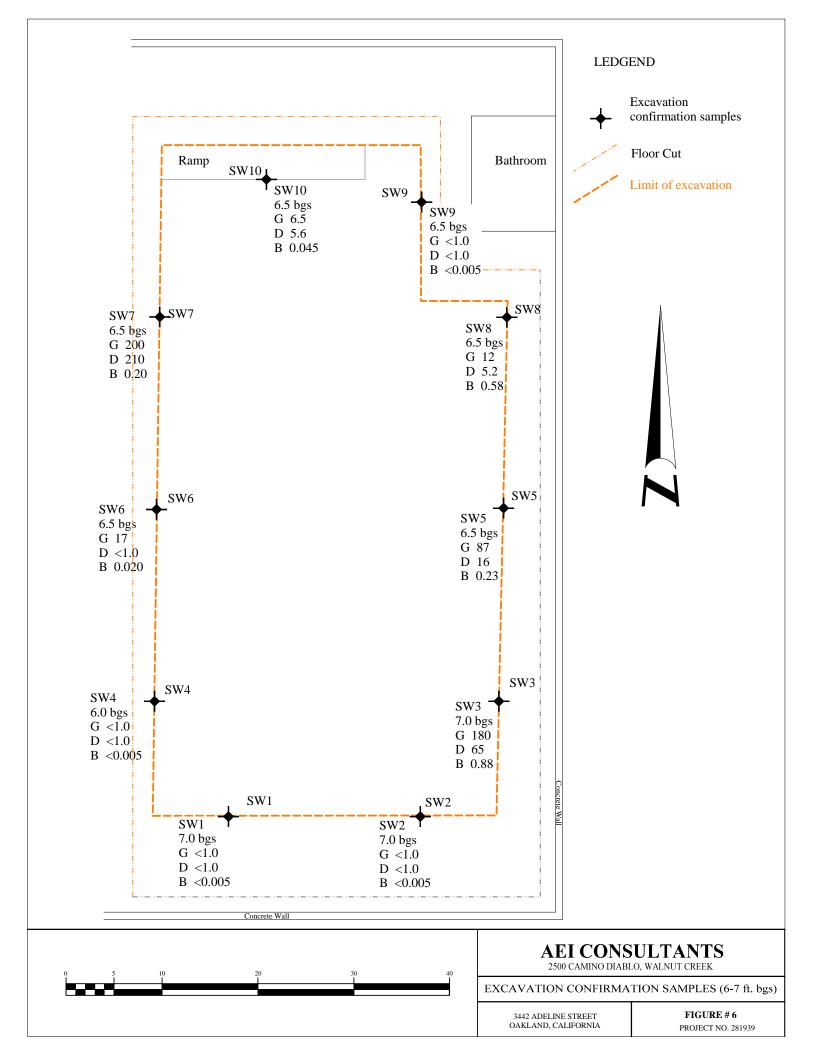
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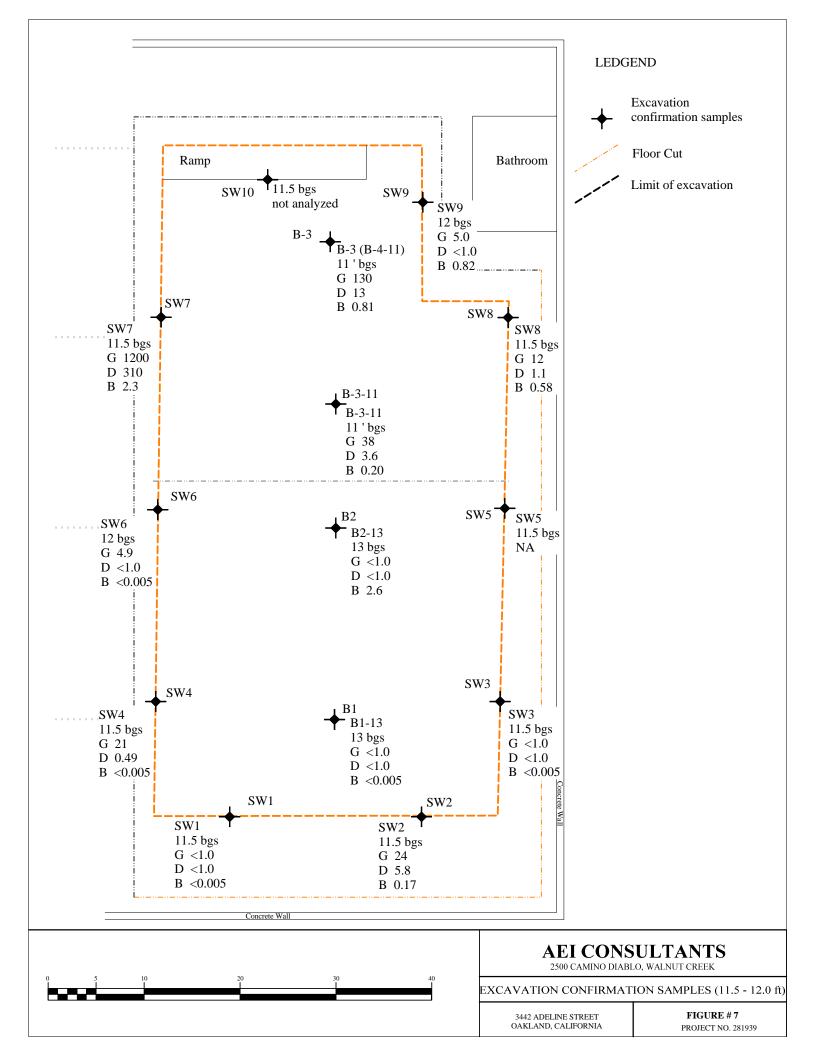
**FIGURE 2** Job No: 281939

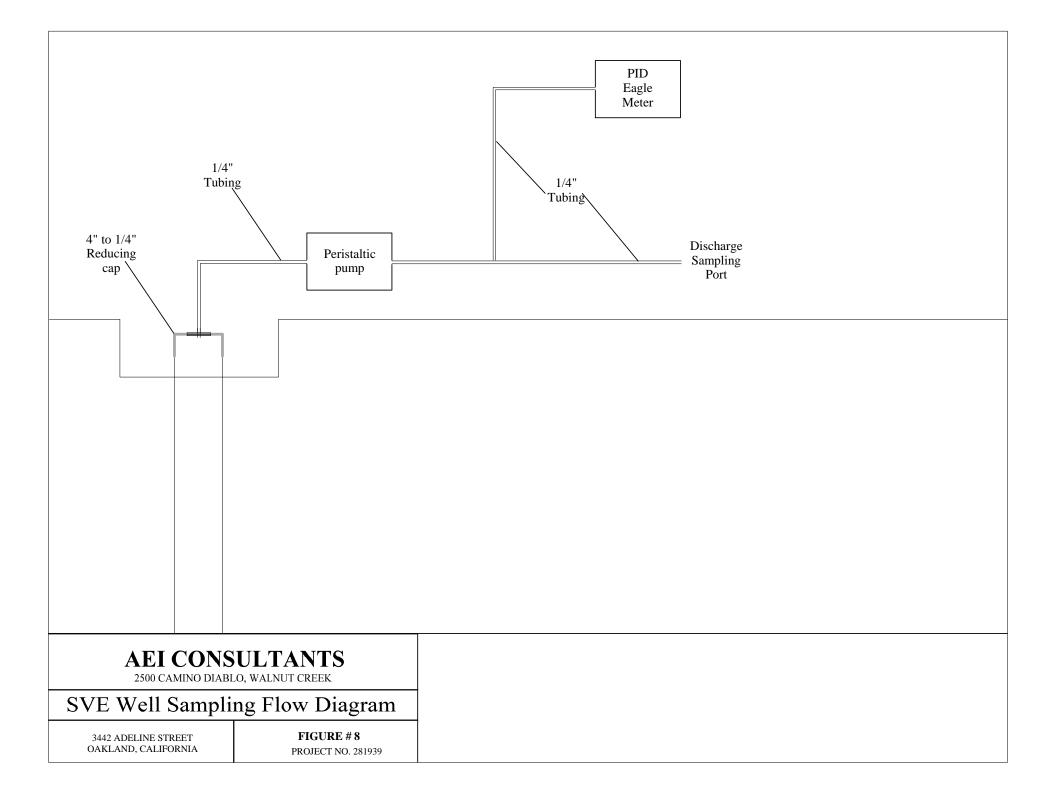












TABLES

## Table 1:Stockpiled Soil Analytical Data3442 Adeline Street St. Oakland, CA 94608AEI Project 281939

Sample	Date	TPHg	TPH-d	MTBE	Benzene	Toluene	Ethyl	Xylenes
Number	Collected						benzene	
		80	15			8021B		
		mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
"Clean" Soil	Stockpile							
ST1-A-D	3/9/2009	3.9	2.6	< 0.05	0.071	0.023	0.064	0.22
ST2-A-D	3/9/2009	5.0	2.2	< 0.05	0.057	0.036	0.069	0.21
ST3-A-D	3/9/2009	9.0	1.3	< 0.05	0.18	0.049	0.087	0.27
ST4-A-D	3/9/2009	6.0	1.7	< 0.05	0.066	0.031	0.078	0.27
Impacted Soi	il Stockpile							
STKA1234		43		0.17	0.069	0.32	0.32	0.82
STKB1234		31		<5.0	0.044	0.019	0.13	0.4
STKA1234		60		<5.0	0.25	0.032	0.59	1.3

mg/kg = milligrams per kilogram

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

 $MTBE = methyl \ tertiary \ butyl \ ether$ 

< = not detected at or above laboratory reporting limit

Sample Number	Date Collected	Depth	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
Inumber	Conecteu		80	15			8021B	Delizene	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sidewall Samp	oles		00	00	00	00	0 0	00	00
SW1-7.0	3/4/2009	7.0	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW1-11.5	3/4/2009	11.5	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW2-8.0	3/4/2009	8.0	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW2-11.5	3/4/2009	11.5	24	5.8	< 0.05	0.17	< 0.005	0.26	0.19
SW3-7.5	3/4/2009	7.5	180	65	<1.0	0.88	0.28	2.9	4.2
SW3-11.5	3/4/2009	11.5	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW4-6	3/5/2009	6.0	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW4-11.5	3/5/2009	11.5	100	21	<1.0	0.49	0.10	1.5	4.2
SW5-6.5	3/5/2009	6.5	87	16	< 0.50	0.23	0.11	0.62	0.49
SW5-11.5	3/10/2009	11.5		Sample	e not analyzed	by error			
SW6-6.5	3/5/2009	6.5	17	<1.0	< 0.10	0.020	< 0.010	< 0.010	0.032
SW6-12	3/11/2009	11.5	4.9	<1.0	< 0.05	0.54	< 0.005	0.15	0.16
SW7-6.5	3/5/2009	6.5	200	210	<1.0	0.20	< 0.10	0.49	0.71
SW7-11.5	3/9/2009	11.5	1200	310	<2.5	2.3	1.4	18	41
SW8-6.5	3/11/2009	6.5	12	5.2	< 0.05	0.085	0.0084	0.027	0.070
SW8-11.5	3/11/2009	11.5	12	1.1	< 0.05	0.58	0.0091	0.15	0.19
SW9-6.5	3/11/2009	6.5	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
SW9-12	3/11/2009	11.5	5.0	<1.0	< 0.05	0.82	< 0.005	0.2	0.2
SW10-6.5	3/11/2009	6.5	5.6	<1.0	< 0.05	0.045	0.0062	0.0089	0.012
SW10-11.5	3/11/2009	11.5		Misl	abeled not ana	lyzed			
Bottom Sampl	es								
B1-13	3/4/2009	13	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
B2-13	3/4/2009	13	<1.0	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
B-3-11	3/9/2009	11	38	3.6	< 0.50	2.6	< 0.050	0.49	0.58
B-3 (B-4-11)	3/11/2009	12	130	13	< 0.50	0.81	0.12	1.5	2.5

#### Table 2: **Excavation Confirmation Sampling** 3442 Adeline Street St. Oakland, CA 94608 AEI Project 281939

mg/kg = milligrams per kilogram

< = not detected at or above laboratory reporting limit MTBE = methyl tertiary butyl ether

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

# Table 3:Horizontal SVE Casing Tests3442 Adeline Street St. Oakland, CA 94608AEI Project 281939

Date	Purge	PID	$CH_4$	<b>O</b> <sub>2</sub>	CO <sub>2</sub>	TPHg	MTBE	Benzene	Toluene	Ethyl	Xylenes
Collected	Vacuum		El -			9015			90 <b>3</b> 1D		
-			Eagle	meter	I	8015			8021B		
	(in. H <sub>2</sub> 0)	(ppmv)	(%)	(%)	(%)	µg/L	μg/L	μg/L	μg/L	μg/L	μg/L
4/27/2009	13.5	60	0	10.7	7.7	51	<2.5	< 0.25	< 0.25	< 0.25	< 0.25
6/24/2009	20.0	0	0	14.4	6.1						
1/27/2000	13.0	60	0	0.0	8 1	48	~2.5	0.20	<0.25	0.26	1.1
						40	<2.5	0.29	<0.25	0.20	1.1
6/24/2009	20.0	0	0	14.2	6.0						
4/27/2009	12.5	55	0	8.9	8.5	<25	<2.5	< 0.25	< 0.25	< 0.25	< 0.25
6/24/2009	20.0	0	0	13.9	6.0						
	Collected 4/27/2009 6/24/2009 4/27/2009 6/24/2009	Collected         Vacuum           (in. H20)           4/27/2009           6/24/2009           4/27/2009           13.5           20.0           4/27/2009           13.0           6/24/2009           13.0           6/24/2009           13.0           20.0           4/27/2009           12.5	Collected         Vacuum         (in. H20)         (ppmv)           4/27/2009         13.5         60           6/24/2009         20.0         0           4/27/2009         13.0         60           6/24/2009         20.0         0           4/27/2009         13.0         60           6/24/2009         20.0         0           4/27/2009         13.5         55	Collected         Vacuum         Eagle           (in. H20)         (ppmv)         (%)           4/27/2009         13.5         60         0           6/24/2009         20.0         0         0           4/27/2009         13.0         60         0           6/24/2009         20.0         0         0           4/27/2009         13.0         60         0           4/27/2009         13.0         55         0	Collected         Vacuum         Eagle meter           (in. $H_20$ )         (ppmv)         (%)         (%)           4/27/2009         13.5         60         0         10.7           6/24/2009         20.0         0         0         14.4           4/27/2009         13.0         60         0         9.0           6/24/2009         20.0         0         0         14.2           4/27/2009         12.5         55         0         8.9	Collected         Vacuum         Eagle meter           (in. $H_20$ )         (ppmv)         (%)         (%)         (%)           4/27/2009         13.5         60         0         10.7         7.7           6/24/2009         20.0         0         0         14.4         6.1           4/27/2009         13.0         60         0         9.0         8.1           6/24/2009         20.0         0         0         14.2         6.0           4/27/2009         13.0         60         0         9.0         8.1           6/24/2009         20.0         0         0         14.2         6.0           4/27/2009         12.5         55         0         8.9         8.5	Collected         Vacuum         Eagle meter         8015           (in. H <sub>2</sub> 0)         (ppmv)         (%)         (%)         (%) $\mu g/L$ 4/27/2009         13.5         60         0         10.7         7.7         51           6/24/2009         20.0         0         0         14.4         6.1            4/27/2009         13.0         60         0         9.0         8.1         48           6/24/2009         20.0         0         0         14.2         6.0            4/27/2009         13.0         60         0         9.0         8.1         48           6/24/2009         20.0         0         0         14.2         6.0            4/27/2009         12.5         55         0         8.9         8.5         <25	Collected         Vacuum         Image: height of the sector of the sect	CollectedVacuumImage: Constraint of the second seco	CollectedVacuumImage: CollectedVacuumImage: CollectedVacuumImage: CollectedSold image: CollectedS	Collected         Vacuum         Image: height of the second seco

ppmv

mg/kg milligrams per kilogram

TPH-g total petroleum hydrocarbons as gasoline

MTBE methyl tertiary butyl ether

< not detected at or above laboratory reporting limit

# Table 4:Miscellaneous Groundwater Sample Analytical Data3442 Adeline Street St. Oakland, CA 94608AEI Project 281939

Sample ID	Date	TPH-g	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Field Oxygen
		Method 8015			Method 8021B	······		Reading
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	mg/L
Poly Tank	03/11/09	3,500	<90	750	24	15	180	2.1
	04/15/09	200	5.7	30	1.5	0.6	11	1.1
	04/30/09	<50	<5.0	2.6	0.57	<0.5	3	3.5
BF-1	03/27/09	19,000	<250	890	27	460	1,200	0.75
	04/01/09	After circulating h	ydrogen peroxi	de through permea	ble bridge			15.1
	06/11/09	6,700	<150	840	19	170	150	1.75
	08/10/09	11,000	<120	710	14	440	290	0.82
		After re-circulating	g from BF-1 to	BF-3 tor 1.5 hour				5.85
BF-5	08/10/09	170	<25	32	0.55	4.2	0.72	0.89
		After re-circulating	g from BF-5 to	BF-3 tor 1.5 hour				5.51
SL - Res DW		100	5.0	1.0	40	30	20	

Notes:

 $\mu g/L = micrograms per liter$ 

ESL = Environmental Screening Level

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tert-butyl ether

## APPENDIX A

"Clean" Stockpile Analyses

McCampbell A		Web: www.mc	low Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	9; Zimmerman,	Date Sampled:	03/09/09
2500 Camino Diablo, Ste. #200	3442 Adeline, Oakland		Date Received:	03/09/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/10/09
Wallut Creek, CA 94397	Client P.O.: WC081405		Date Completed:	03/10/09

#### WorkOrder: 0903203

March 10, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 4 analyzed samples from your project: **#281939; Zimmerman, 3442 Adeline**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

RUSH 110 2 <sup>rd</sup> PACHI Telephone: (925) 798-1620	L ANALY VENUE SOU CO, CA 94553	(TICAI TH, #D7 -5560 Fa	L INC	5) 798-	1622				URN F Rec		OU	ND	TIN		R		2	<b>D</b> 24 H					2 HR	D 5 DAY
Report To: Robert Flory	Bill	To: Sam	ie										_	eque	_			1		C	ther	•	Com	nents
Company: AEI Consultants																								
2500 Camino Diablo									3&F															
Walnut Creek, CA 9459	F	E-Mail: rf	flory@a	eiconsu	Itants.	com		IBE	N.F.						8310									
Tele: (925) 746-6000		(925)						8015)/MTBE	Q B	8.1)					8/0									
Project #: 281939 PO: WC081405	/ Pro	ject Nan	ne Zim	merma	an			801	Trifica Se FiB&F) Grease (5520 E&F/B&F)	(41	1	6			8270/									
Project Location: 3442 Adeline, Ø	akland, CA	11	-					+ 02	110	Sons	1000	202	ALY		625 / 8			10)						
Sampler Signature:	99	Ø						2/803	C S	cart	S	0708 / 200	S ON		A 62			2/60		2				
SAM	PLING	2	MA	TRIX		1ETHO		s (60	TPH as Diesel (8015) Total Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)			EPA 608 / 8080 PCB's ONLY		EPA			Lead (7240/7421/239.2/6010)						
		Containers			PR	ESER	VED	s Ga	(80 m	m	0	BTEX UNLY (EPA EPA 608 / 8080	30 P	9 5	PAH's / PNA's by	als	s	21/						
SAMPLE ID LOCATION		Containers ype Containe						PHa	TPH as Diesel Total Petroleur	oleu	EPA 601 / 8010	EPA 608 / 8080	808	EPA 624 / 8260	NA	CAM-17 Metals	LUFT 5 Metals	0/74						
(Field Point Name) Docarion Date	Time	Conta	er	36	-	6	-	& T	Petr	Petr	10	808	508	524	s/P	1-1-	SN	(724						
			Water Soil	Air Sludge	Other	HCI HNO.	Other	BTEX	PH a	otal	PA I	PA	PA	Vd	AH	AM	H	cad	RCI					
		# F	20	N N	0 3	# #	0	æ	FF	E	ш	E B	Ξ	шц	1 1	0	Ц	7	24			1		10
STI-A-0 319/09	0530 1	4 2.6	X					XI	C				1	Ca	1	0	31	Ep		4	pi	K	A	0.4
5TR-A-17 1	09551	41	×					X	6					Ce	24	10	25	A	5	4	101	×	1.0X	VI
573-4-0	PC 1	4 1			-				7		+	-		Th	17	E	-	E		11	7		X	6 L
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Relinguished By: Date:	Time: 1 14'56	111	M	an	2.	_	6	G		SPAC	EAI	BSEN		B	AP	PRO	PRI	ATE RS_	2	LAB				- CTITER

### McCampbell Analytical, Inc.

1534 Willow Pass Rd

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	g, CA 94565-1701 52-9262					Work	Order:	09032	203	Clie	ntCode: A	EL				
			WriteOn		Γ	Excel	[	Fax	<b>~</b>	] Email	Hard	Сору	Thirc	Party	□ J-1	flag
Report to:							Bill to:					Req	uested -	TAT:	1	day
	ants no Diablo, Ste. #200 ek, CA 94597	Email: cc: PO: ProjectNo	rflory@aeicon WC081405 : #281939; Zim Oakland	sultants.com merman, 3442 A	deline	,	AE 25 Wa	alnut Cr	ultants hino Dial reek, CA	olo, Ste. # 94597 sultants.c			te Recei te Printo		03/09/2 03/09/2	
									Requ	ested Te	sts (See leg	jend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6 7	8	9	10	11	12
0903203-001	ST1-A-D		Soil	3/9/2009 8:30		А	А									
0903203-002	ST2-A-D		Soil	3/9/2009 8:55		А	А									
0903203-003	ST3-A-D		Soil	3/9/2009 9:15		Α	А					1				

3/9/2009 9:30

А

А

#### Test Legend:

0903203-004

1	G-MBTEX_S
6	
11	

2	TPH(D)WSG_S
7	
12	

Soil

ST4-A-D

3	
8	

4	
9	

5				
10				

Prepared by: Ana Venegas

**Comments:** 24hr rush

> 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.



## McCampbell Analytical, Inc.

"When Ouality Counts"

#### Sample Receipt Checklist

Client Name: AEI Consultants			Date a	and Time Received:	3/9/2009 6:22:04 PM
Project Name: #281939; Zimmerman, 3442 Adelin	e, Oal	land	Check	klist completed and r	eviewed by: Ana Venegas
WorkOrder N°:         0903203         Matrix         Soil			Carrie	er: <u>Client Drop-In</u>	
<u>Chain</u>	of Cu	stody (COC)	Informa	ation	
Chain of custody present?	Yes	$\checkmark$	No 🗆		
Chain of custody signed when relinquished and received?	Yes	$\checkmark$	No 🗆		
Chain of custody agrees with sample labels?	Yes		No 🗌		
Sample IDs noted by Client on COC?	Yes	$\checkmark$	No 🗆		
Date and Time of collection noted by Client on COC?	Yes		No 🗆		
Sampler's name noted on COC?	Yes		No 🗆		
<u>S</u>	ample	Receipt Info	ormation	<u>1</u>	
Custody seals intact on shipping container/cooler?	Yes		No 🗆		NA 🗹
Shipping container/cooler in good condition?	Yes	$\checkmark$	No 🗆		
Samples in proper containers/bottles?	Yes		No 🗆		
Sample containers intact?	Yes	$\checkmark$	No 🗆		
Sufficient sample volume for indicated test?	Yes		No 🗌		
Sample Prese	rvatior	n and Hold T	ime (HT	) Information	
All samples received within holding time?	Yes		No 🗌		
Container/Temp Blank temperature	Coole	r Temp: 6.4	٥c		NA 🗆
Water - VOA vials have zero headspace / no bubbles?	Yes		No 🗆	No VOA vials subm	itted 🗹
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 🗆		
(Ісе Тур	e: WE	TICE )			
* NOTE: If the "No" box is checked, see comments below.					

Client contacted:

Date contacted:

Contacted by:

Comments:

		ell Ana en Ouality Cor	lytical, Inc.		Web: www.mcca	ampbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com			
AEI C	onsultants		Client Project ID: 3442 Adeline, Oa		Zimmerman		ampled: 03/0				
2500 0	Camino Diablo, Ste. #2	200			Date Received: 03/09/09						
Wala	tt Creek, CA 94597		Client Contact: Client P.O.: WC		су.		xtracted: 03/0				
wannu	,						nalyzed 03/1				
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*         Extraction method: SW5030B       Analytical methods: SW8021B/8015Bm       Work Order: 0										3203	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	
001A	ST1-A-D	S	3.9,d1	ND	0.071	0.023	0.064	0.22	1	112	
002A	ST2-A-D	S	5.0,d1	ND	0.057	0.036	0.069	0.21	1	105	
003A	ST3-A-D	S	9.0,d1	ND	0.18	0.049	0.087	0.27	1	112	
004A	ST4-A-D	S	6.0,d1	ND	0.066	0.031	0.078	0.27	1	111	
	ting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	u	g/L	
	eans not detected at or ve the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mş	g/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 McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



McC	<b>Campbell Analyti</b> "When Ouality Counts"	cal, Inc.	Web: www.mccamp	Pass Road, Pittsburg, CA 94565- bell.com E-mail: main@mccam 377-252-9262 Fax: 925-252-92	pbell.com	
AEI Consultants		Client Project ID: 3442 Adeline, Oak	#281939; Zimmerman,	Date Sampled: 03/09/	/09	
2500 Camino Diat	olo, Ste. #200	5442 Adenne, Oak	land	Date Received: 03/09/	09	
		Client Contact: Ro	-	Date Extracted: 03/09/	09	
Walnut Creek, CA	94597	Client P.O.: WC08	31405	Date Analyzed 03/10/	/09	
Extraction method SW:		•	nethods: SW8015B	l <b>Clean-Up*</b> Work Or	der: 09	03203
Lab ID	Client ID	Matrix	TPH-Dies (C10-C23)		DF	% SS
0903203-001A	ST1-A-D	S	2.6,e7,e2	.e4	1	95
0903203-002A	ST2-A-D	S	2.2,e7,e2	.e4	1	93
0903203-003A	ST3-A-D	S	1.3,e7,e2,	.e4	1	99
0903203-004A	ST4-A-D	S	1.7,e2,e	4	1	99
						<u> </u>

Reporting Limit for DF =1;	W	NA	NA	
ND means not detected at or above the reporting limit	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 McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil	QC Matrix: Soil					BatchID: 41874 WorkOrder: 090				Order: 09032	03	
EPA Method SW8021B/8015Bm	Extrac	Extraction SW5030B						s	piked San	nple ID	: 0903162-0	01A
Analyte	Sample	le Spiked MS MSD MS-MSD LCS LCSD LCS-LCSI			LCS-LCSD	Acce	eptance	e Criteria (%)				
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	103	106	3.16	102	103	0.587	70 - 130	20	70 - 130	20
MTBE	ND	0.10	112	113	0.588	108	105	2.18	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.2	98.6	5.69	93	95.3	2.38	70 - 130	20	70 - 130	20
Toluene	ND	0.10	104	109	4.75	104	107	2.91	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	102	108	5.41	103	106	2.57	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	114	119	4.38	114	117	2.69	70 - 130	20	70 - 130	20
%SS:	81	0.10	75	90	18.9	91	95	3.77	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

#### BATCH 41874 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903203-001A	03/09/09 8:30 AM	03/09/09	03/10/09 3:34 AM	0903203-002A	03/09/09 8:55 AM	03/09/09	03/10/09 4:03 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.



McCampbell Analytical, Inc.

"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil	O. Sample Matrix:     Soil     QC Matrix:     Soil						BatchID: 41912 WorkOrder: 0903203						
EPA Method SW8021B/8015Bm	Extrac	Extraction SW5030B						Spiked Sample ID: 0903208-009A					
Analyte	Sample	Spiked MS MSD MS-MSD LCS LCSD LC				LCS-LCSD	Acce	eptance	Criteria (%)				
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex)	ND	0.60	99.8	96	3.88	105	103	1.76	70 - 130	20	70 - 130	20	
MTBE	ND	0.10	112	118	5.34	101	106	4.49	70 - 130	20	70 - 130	20	
Benzene	ND	0.10	92.1	98.1	6.32	98.9	100	1.27	70 - 130	20	70 - 130	20	
Toluene	ND	0.10	102	108	5.67	110	113	2.08	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	0.10	100	108	7.41	109	110	1.16	70 - 130	20	70 - 130	20	
Xylenes	ND	0.30	113	116	2.71	120	122	1.23	70 - 130	20	70 - 130	20	
%SS:	77	0.10	80	98	20.0	98	100	1.83	70 - 130	20	70 - 130	20	
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:				

#### BATCH 41912 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903203-003A	03/09/09 9:15 AM	03/09/09	03/10/09 5:03 AM	0903203-004A	03/09/09 9:30 AM	03/09/09	03/10/09 5:33 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.





McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 41864 WorkOrd				order 09032	03
EPA Method SW8015B	Extra	ction SW	n SW3550C/3630C viked MS MSD MS-MSD LCS					5	Spiked San	nple ID	: 0903134-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	250	20	NR	NR	NR	94.5	92.8	1.88	70 - 130	30	70 - 130	30
%SS:	94	50	93	96	2.66	99	97	2.00	70 - 130	30	70 - 130	30
%SS: All target compounds in the Meth- NONE										30	70 - 130	

#### BATCH 41864 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903203-001A	03/09/09 8:30 AM	03/09/09	03/10/09 4:02 AM	0903203-002A	03/09/09 8:55 AM	03/09/09	03/10/09 5:10 AM

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

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

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

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

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

DHS ELAP Certification 1644

A QA/QC Officer



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

03203-004A eria (%)
eria (%)
S/LCSD RPE
- 130 30
- 130 30

#### BATCH 41911 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903203-003A	03/09/09 9:15 AM	1 03/09/09	03/10/09 12:08 PM	0903203-004A	03/09/09 9:30 AM	03/09/09	03/10/09 10:55 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.

A QA/QC Officer

## **APPENDIX B**

# **Excavation Confirmation Sample Analyses**

McCampbell An "When Ouality		Web: www.mco	low Pass Road, Pittsburg, CA 94565-1701 campbell.com E-mail: main@mccampbell.com one: 877-252-9262 Fax: 925-252-9269					
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	03/04/09-03/06/09				
2500 Camino Diablo, Ste. #200			Date Received:	03/06/09				
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/13/09				
Wundt Creek, Cri 94397	Client P.O.: #WC081403		Date Completed:	03/12/09				

### WorkOrder: 0903163

March 13, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 13 analyzed samples from your project: #281939; Zimmerman,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

			(	00	-		,1(	Ó	3	>		_						_		_	_	_									
McCAM Telephone: (925) 798	PACHEC	L ANAI VENUE SC CO, CA 945	UTH,	#D7 60	L IN		798	8-16	22								ou		TI	ME		R		1	DY 24 H	k	RECORD 48 HR 72 HR		5 DAY		
Report To: Robert Flory		B	ill To	:sam	e									2	_		_	_	_	Req	uest	-					(	Othe	r	Con	ments
Company: AEI Consultants														3	0																
2500 Camino Dia	blo													an	(5520 E&F/B&F)																
Walnut Creek, C			E-M	lail: r	flory	a)aei	cons	ulta	nts.c	om			8015)/MTBE	2	&F/							\$310									
Tele: (925) 746-6000		F	ax: (	925)	746-	6099	9						2)/M	0	OE	8.1)						Sec. 1									
Project #: 281939 PO: WC08	Fax: (925) 746-6099 C081403 Project Name Zimmerman						801	2	(222	(4]		6				8270															
										÷ 🗸	11Co	Grease	pons		802	2 17			625/			10									
Sampler Signature:									2/8020	Siller	B	carl		2	C.						2/6010)										
SAMPLE ID (Field Point Name)	Date	Time	# Containers	Type Containers	er	Joil Soll	Sludge		PRI	HCI	RVE	D	BTEX & TPH as Gas (60	01	Total Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EFA 000 / 0000 FPA 608 / \$080 DCR's ONI V	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.	RCI					
5121-7.	31,109	1215	1	2×6	X	(			X			5	(	Y																	
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Relinquished By:	Date: (	Time:	Rece	ived B	y:								HEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PERSERVED IN LAB							_											

1534 Willow Pass Rd CA 04565 1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9	9262					Work	Order	: 0903	163	(	ClientC	Code: A	EL				
			WriteOn	✓ EDF		Excel		Fax		🗸 Email		Hard	dCopy	🗌 Thi	irdParty	J	-flag
Report to:							Bill to:						Req	uested	I TAT:	5	days
Robert Flory AEI Consultants 2500 Camino I Walnut Creek, ( (925) 283-6000	Diablo, Ste. #200 CA 94597	Email: cc: PO: ProjectNo	rflory@aeicon #WC081403 : #281939; Zim				AE 25 W	enise M El Consi 500 Can alnut Cr nockel @	ultants nino Dia reek, Ca	A 94597	7			e Rece e Prin		03/06/ 03/06/	/2009
									Req	uested	Tests	(See le	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0903163-001	SW1-7		Soil	3/4/2009 12:15		А	Α	А									1
0903163-002	SW1-11.5		Soil	3/4/2009 12:30		А		А									
0903163-003	SW2-8		Soil	3/4/2009 9:45		А		А									
0903163-004	SW2-12		Soil	3/4/2009 9:40		А		А									
0903163-005	SW3-7.5		Soil	3/4/2009 10:50		А		А									
0903163-006	SW3-11.5		Soil	3/4/2009 11:30		А		А									
0903163-007	B1-13		Soil	3/4/2009 12:15		А		А									
0903163-008	B2-13		Soil	3/4/2009 13:00		А		А									
0903163-009	SW4-6		Soil	3/5/2009 8:30		А		А									
0903163-010	SW4-11.5		Soil	3/5/2009 13:00		А		А									
0903163-011	SW5-6.5		Soil	3/5/2009 12:40		А		А									
0903163-012	SW6-6.5		Soil	3/5/2009 14:00		А		А	1								
0903163-013	SW7-6.5		Soil	3/6/2009 12:00		А		А	1								1

#### Test Legend:

1 G-MBTEX_S	2 PREDF REPORT
6	7
11	12

	B TI	PH(D)WSG_S	4
1	3		9

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)	

5	
10	

Prepared by: Maria 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.



"When Ouality Counts"

### Sample Receipt Checklist

Client Name:	AEI Consultants				Date	e and	Time Received:	03/06/09 3	43:24 PM
Project Name:	#281939; Zimmer	man			Che	cklist	completed and re	eviewed by:	Maria Venegas
WorkOrder N°:	0903163	Matrix <u>Soil</u>			Car	rier:	Client Drop-In		
		<u>Chair</u>	of Cu	stody (C	OC) Inforr	natio	<u>n</u>		
Chain of custody	present?		Yes	$\checkmark$	No				
Chain of custody	signed when relinqui	shed and received?	Yes	$\checkmark$	No 🗆				
Chain of custody	agrees with sample l	abels?	Yes	<	No				
Sample IDs noted	by Client on COC?		Yes	$\checkmark$	No 🗆	Ì			
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆				
Sampler's name r	noted on COC?		Yes	✓	No 🗆				
		<u>S</u>	ample	Receipt	Informatio	<u>on</u>			
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No 🗆			NA 🔽	
Shipping containe	er/cooler in good cond	ition?	Yes	$\checkmark$	No 🗆				
Samples in prope	er containers/bottles?		Yes	✓	No 🗆				
Sample containe	rs intact?		Yes	$\checkmark$	No				
Sufficient sample	volume for indicated	test?	Yes	✓	No				
		Sample Prese	rvatior	n and Ho	old Time (H	IT) In	formation		
All samples recei	ved within holding time	e?	Yes	✓	No 🗌				
Container/Temp E	Blank temperature		Coole	r Temp:	3.8°C			NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes		No	No	VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No	Ì			
TTLC Metal - pH	acceptable upon recei	pt (pH<2)?	Yes		No 🗆			NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE	)				
* NOTE: If the "N	lo" box is checked, se	ee comments below.							

Client contacted:

Date contacted:

Contacted by:

Comments:

		ell Ana en Ouality Co	llytical, Inc.		Web: www.mcc	ampbell.com	attsburg, CA 9456 E-mail: main@mcc 2 Fax: 925-252-	campbell.com		
AEI Co	onsultants		Client Project ID:	#281939;	Zimmerman	Date Sa	mpled: 03/0	04/09-03/06	/09	
2500 C	omino Dichlo Sta #1	200				Date Re	eceived: 03/0	06/09		
2300 Ca	amino Diablo, Ste. #2	.00	Client Contact:	Robert Flor	У	Date Ex	tracted: 03/0	)6/09		
Walnut	Creek, CA 94597		Client P.O.: #WO	2081403		Date A	nalyzed 03/0	07/09-03/12	/09	
Entra ati a a		oline Ran	ge (C6-C12) Volatile Hy				X and MTBI		1	2162
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	n Toluene	Ethylbenzene	Xylenes	ler: 090 DF	% SS
001A	SW1-7	S	ND	ND	ND	ND	ND	ND	1	80
002A	SW1-11.5	s	ND	ND	ND	ND	ND	ND	1	79
003A	SW2-8	s	ND	ND	ND	ND	ND	ND	1	80
004A	SW2-12	s	24,d1	ND	0.17	ND	0.26	0.19	1	93
005A	SW3-7.5	s	180,d1	ND<1.0	0.88	0.28	2.9	4.2	20	103
006A	SW3-11.5	s	ND	ND	ND	ND	ND	ND	1	78
007A	B1-13	S	ND	ND	ND	ND	ND	ND	1	88
008A	B2-13	S	ND	ND	ND	ND	ND	ND	1	84
009A	SW4-6	S	ND	ND	ND	ND	ND	ND	1	92
010A	SW4-11.5	S	100,d1	ND<1.0	0.49	0.10	1.5	4.2	20	89
011A	SW5-6.5	S	87,d1	ND<0.50	0.23	0.11	0.62	0.49	10	109
012A	SW6-6.5	S	17,d7,d9	ND<0.10	0.020	ND<0.010	ND<0.010	0.032	2	82
013A	SW7-6.5	S	200,d7,d9	ND<1.0	0.20	ND<0.10	0.49	0.71	20	103
-	ing Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	uį	g/L
	ans not detected at or e the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mg	g/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.

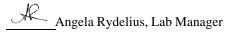
# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

d1) weakly modified or unmodified gasoline is significant

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern



<u> </u>	Campbell Analyt	ical, Inc.	Web: www.mccamp	Pass Road, Pittsburg, CA 94565- obell.com E-mail: main@mccan 877-252-9262 Fax: 925-252-92	npbell.com	
AEI Consultants		Client Project ID:	#281939; Zimmerman		/09-03/0	6/09
2500 Comine Die	h1- St- #200			Date Received: 03/06	/09	
2500 Camino Dia	bio, Ste. #200	Client Contact: R	obert Flory	Date Extracted: 03/06	/09	
Walnut Creek, CA	A 94597	Client P.O.: #WC	081403	Date Analyzed 03/07	/09-03/1	0/09
	Total Extracta	ble Petroleum Hydr	ocarbons with Silica Ge	l Clean-Up*		
Extraction method SW	/3550C/3630C	Analytical 1	methods: SW8015B	Work Or	der: 09	03163
Lab ID	Client ID	Matrix	TPH-Die: (C10-C23		DF	% SS
0903163-001A	SW1-7	S	ND		1	104
0903163-002A	SW1-11.5	S	ND		1	101
0903163-003A	SW2-8	S	ND		1	102
0903163-004A	SW2-12	S	5.8,e4		1	103
0903163-005A	SW3-7.5	S	65,e4		1	103
0903163-006A	SW3-11.5	S	ND		1	100
0903163-007A	B1-13	S	ND		1	98
0903163-008A	B2-13	S	ND		1	98
0903163-009A	SW4-6	S	ND		1	99
0903163-010A	SW4-11.5	S	21,e4		1	102
0903163-011A	SW5-6.5	S	16,e4		1	110
0903163-012A	SW6-6.5	S	ND		1	107
0903163-013A	SW7-6.5	S	210,e1	1	1	108
Reportin	g Limit for DF =1:	W	NA			JA

Reporting Limit for DF =1;WNANAND means not detected at or<br/>above the reporting limitS1.0mg/Kg

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

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

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

e4) gasoline range compounds are significant. e11) stoddard solvent/mineral spirit (?)



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil			QC Matri			Batch	ID: 41843		WorkC	Order 09031	63	
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					s	Spiked San	nple ID	: 0903094-0	)18A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
, mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>f</sup> )	ND	0.60	109	103	6.15	103	107	4.15	70 - 130	20	70 - 130	20
MTBE	ND	0.10	89.3	96.2	7.39	96.6	104	7.16	70 - 130	20	70 - 130	20
Benzene	ND	0.10	89.3	99.8	11.2	100	96.9	3.37	70 - 130	20	70 - 130	20
Toluene	ND	0.10	112	94.8	16.4	112	111	1.04	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	100	105	5.05	111	107	4.01	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	113	116	2.50	123	118	3.65	70 - 130	20	70 - 130	20
%SS:	77	0.10	87	97	11.3	98	95	2.57	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

#### BATCH 41843 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903163-001A	03/04/09 12:15 PM	03/06/09	03/07/09 12:12 PM	0903163-002A	03/04/09 12:30 PM	03/06/09	03/07/09 1:54 PM
0903163-003A	03/04/09 9:45 AM	03/06/09	03/10/09 6:15 AM	0903163-004A	03/04/09 9:40 AM	03/06/09	03/09/09 6:35 PM
0903163-005A	03/04/09 10:50 AM	03/06/09	03/10/09 10:28 PM	0903163-006A	03/04/09 11:30 AM	03/06/09	03/11/09 11:36 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).

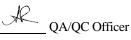
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

 $\pounds$  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.



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 41874		WorkC	Order 09031	63
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					ŝ	Spiked San	nple ID	: 0903162-0	001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
, mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	103	106	3.16	102	103	0.587	70 - 130	20	70 - 130	20
MTBE	ND	0.10	112	113	0.588	108	105	2.18	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.2	98.6	5.69	93	95.3	2.38	70 - 130	20	70 - 130	20
Toluene	ND	0.10	104	109	4.75	104	107	2.91	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	102	108	5.41	103	106	2.57	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	114	119	4.38	114	117	2.69	70 - 130	20	70 - 130	20
%SS:	81	0.10	75	90	18.9	91	95	3.77	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 41874 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903163-007A	03/04/09 12:15 PM	03/06/09	03/09/09 9:07 PM	0903163-008A	03/04/09 1:00 PM	03/06/09	03/09/09 9:37 PM
0903163-009A	03/05/09 8:30 AM	03/06/09	03/10/09 6:25 PM	0903163-010A	03/05/09 1:00 PM	03/06/09	03/10/09 11:29 PM
0903163-011A	03/05/09 12:40 PM	03/06/09	03/10/09 11:59 PM	0903163-012A	03/05/09 2:00 PM	03/06/09	03/12/09 12:08 AM
0903163-013A	03/06/09 12:00 PM	03/06/09	03/11/09 1:29 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).

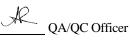
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





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

### "When Ouality Counts"

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 41838		WorkC	Order 09031	63
EPA Method SW8015B	Extra	ction SW	3550C/3	630C				5	Spiked San	nple ID	: 0903091-0	18A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	92.2	94.2	2.13	93.6	94.5	0.968	70 - 130	30	70 - 130	30
%SS:	108	50	107	109	2.08	107	108	0.750	70 - 130	30	70 - 130	30
All target compounds in the Meth NONE										20	150	50

#### BATCH 41838 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903163-001A	03/04/09 12:15 PM	I 03/06/09	03/07/09 9:33 AM	0903163-002A	03/04/09 12:30 PM	03/06/09	03/07/09 10:44 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.

A QA/QC Officer



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 41864		WorkC	order 09031	63
EPA Method SW8015B	Extra	ction SW	3550C/3	630C				5	Spiked Sar	nple ID	: 0903134-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	250	20	NR	NR	NR	94.5	92.8	1.88	70 - 130	30	70 - 130	30
%SS:	94	50	93	96	2.66	99	97	2.00	70 - 130	30	70 - 130	30
All target compounds in the Metho NONE	od Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 41864 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903163-003A	03/04/09 9:45 AM	03/06/09	03/07/09 11:54 AM	0903163-004A	03/04/09 9:40 AM	03/06/09	03/07/09 1:05 PM
0903163-005A	03/04/09 10:50 AM	03/06/09	03/09/09 11:28 PM	0903163-006A	03/04/09 11:30 AM	03/06/09	03/10/09 10:55 AM
0903163-007A	03/04/09 12:15 PM	03/06/09	03/07/09 8:22 AM	0903163-008A	03/04/09 1:00 PM	03/06/09	03/07/09 9:33 AM
0903163-009A	03/05/09 8:30 AM	03/06/09	03/07/09 10:44 AM	0903163-010A	03/05/09 1:00 PM	03/06/09	03/07/09 11:54 AM
0903163-011A	03/05/09 12:40 PM	03/06/09	03/09/09 1:47 PM	0903163-012A	03/05/09 2:00 PM	03/06/09	03/09/09 2:55 PM
0903163-013A	03/06/09 12:00 PM	03/06/09	03/07/09 2:16 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.

A QA/QC Officer

McCampbell An "When Ouality		Web: www.mco	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	03/10/09
2500 Camino Diablo, Ste. #200			Date Received:	03/18/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/24/09
Wundt Creek, Cri 94397	Client P.O.: WC081414		Date Completed:	03/20/09

### WorkOrder: 0903478

March 24, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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Report To: Rober	t Flory		B	ill To	: Sar	ne	-	_		-	_	_	t			lequ	me		Ana	_	-	que	_		10	-				Oth	er	Т	Com	ment	s
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Tele: (925) 746-6					925)								-	5)/N	1	20 E	8.1							625/8270/8310											
Project #: 281939					t Nar	ne 7	Zimr	nern	nan				100	801	10F	(55	s (4)		6		~			827											
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9	19	SAMP	LING	~	Containers	1	MAT	RI	(		ETH			Gas (6	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY			2	s		Lead (7240/7421/239.2/6010)								
SAMPLE ID	LOCUTION			iner	Itai									Has	esel	leun	leun	8010	LY	808	808	8260	827(	NA'S	fetal	etals	1742								
(Field Point Name)	LOCATION	Date	Time	Containers	Col	5		e	-			-		BTEX & TPH	S Die	Cetro	etro	EPA 601 / 8010	NO	EPA 608 / 8080	08/	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	7240								
		Date	Time	S	Type	Water	Soil	Sludge	Other	Ice	HCI	HNO3	Other	EX	Ha	tal	tal	A 6	LEX	A 6	9 V 6	A 6	A 6	H	-WA	E	) per	RCI							
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1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090347	78 Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	✓ Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	II to:		Rec	quested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsul	tants.com		Denise Mod	kel			
AEI Consultants	CC:				AEI Consult	ants	_		
2500 Camino Diablo, Ste. #200	PO:	WC081414			2500 Camir	no Diablo, Ste. #20	$D_0 Dat$	te Received:	03/18/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	erman		Walnut Cree	ek, CA 94597	Da	te Printed:	03/18/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	1		

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
					-		-		-		-	-	-	-	
0903478-001	SW5-11.5	Soil	3/10/2009 10:45	А	Α	Α									

#### Test Legend:

1	G-MBTEX_S	
6		
11		

2	PREDF REPORT	
7		
12		

3	B TPH(D)WSG_S	4
8	3	9

4	
9	

5	
10	

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.



"When Ouality Counts"

### Sample Receipt Checklist

Client Name:	AEI Consultants					Date	e anc	d Time Received:	3/18/2009	8:08:43 PM
Project Name:	#281939; Zimmer	man				Che	ecklis	st completed and re	eviewed by:	Ana Venegas
WorkOrder N°:	0903478	Matrix	<u>Soil</u>			Car	rier:	Client Drop-In		
			<u>Chain</u>	of Cu	stody (C	OC) Infori	matio	on		
Chain of custody	present?			Yes	✓	No	]			
Chain of custody	signed when relinqui	ished and	received?	Yes	✓	No	]			
Chain of custody	agrees with sample I	labels?		Yes		No	]			
Sample IDs noted	by Client on COC?			Yes	✓	No	]			
Chain of custody present? Chain of custody signed when relinquished and received Chain of custody agrees with sample labels? Sample IDs noted by Client on COC? Date and Time of collection noted by Client on COC? Sampler's name noted on COC? Custody seals intact on shipping container/cooler? Shipping container/cooler in good condition? Samples in proper containers/bottles? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time?				Yes		No	]			
Sampler's name r	noted on COC?			Yes		No	]			
			<u>Sa</u>	ample	Receipt	Informati	<u>on</u>			
Custody seals int	tact on shipping conta	iner/coole	er?	Yes		No	]		NA 🔽	
Shipping containe	er/cooler in good cond	lition?		Yes	✓	No	]			
Samples in prope	er containers/bottles?			Yes	✓	No	]			
Sample containe	rs intact?			Yes	$\checkmark$	No	]			
Sufficient sample	e volume for indicated	test?		Yes		No	]			
		<u>San</u>	nple Preser	vatior	and Ho	ld Time (H	1T) li	nformation		
All samples recei	ived within holding tim	e?		Yes		No	]			
Container/Temp E	Blank temperature			Coole	r Temp:	6.2°C			NA 🗆	
Water - VOA vial	ls have zero headspa	.ce / no bu	ubbles?	Yes		No	] и	lo VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pre	servation	?	Yes	✓	No	]			
TTLC Metal - pH	acceptable upon rece	ipt (pH<2)	?	Yes		No	]		NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No 🗆	]			
			(Ice Type	e: WE	TICE	)				
* NOTE: If the "N	No" box is checked, se	ee comme	ents below.							

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbo "Wh	ell Analy en Ouality Coun			Web: www.mcca	ampbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com				
AEI Con	isultants		Client Project ID:	#281939;	Zimmerman	Date Sa	Date Sampled: 03/10/09					
2500 Car	mino Diablo, Ste. #2	200				Date R	eceived: 03/1	18/09				
2300 Cai	111110 D1a010, Ste. #2	200	Client Contact: F	Robert Flor	ry	Date E	Date Extracted: 03/18/09					
Walnut C	Creek, CA 94597		Client P.O.: WCC	081414		Date A	nalyzed 03/1	19/09				
Extraction me	Gas ethod SW5030B	oline Range	e (C6-C12) Volatile Hy Analytica		<b>ns as Gasolin</b> W8021B/8015Bn		EX and MTBI		ler: 090	)3478		
Lab ID	Client ID	Toluene	Ethylbenzene	Xylenes	DF	% SS						
001A	SW5-11.5	S	ND	ND	ND	ND	ND	ND	1	96		
	ng Limit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	u	g/L		
	ns not detected at or the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mg	g/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 McCampbell Analytical is not responsible for their interpretation:

	CCampbell Analyti	cal, Inc.	Web: www.mccamp	Pass Road, Pittsburg, CA 94565- bell.com E-mail: main@mccam 377-252-9262 Fax: 925-252-92	pbell.com				
AEI Consulta	nts	Client Project ID:	#281939; Zimmerman	Date Sampled: 03/10/	/09				
2500 Camino	Diablo, Ste. #200			Date Received: 03/18/	/09				
	,	Client Contact: I	Client Contact: Robert Flory Date Extracted: 03/18/						
Walnut Creek	, CA 94597	Client P.O.: WC	Client P.O.: WC081414 Date Analyzed 03/19						
		-	rocarbons with Silica Gel	-					
Extraction method	SW3550C/3630C	Analytical	methods: SW8015B	Work Or	der: 090	03478			
Lab ID	Client ID	Matrix	TPH-Dies (C10-C23)		DF	% SS			
0903478-001A	SW5-11.5	S	ND		1	81			
		Г			1				

Reporting Limit for DF =1;	W	NA	NA
ND means not detected at or	c	1.0	mg/Kg
above the reporting limit	3	1.0	mg/ <b>k</b> g

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

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

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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701Web: www.mccampbell.comE-mail: main@mccampbell.comTelephone: 877-252-9262Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil							BatchID: 42062 WorkOrder 090347					78
EPA Method SW8015B         Extraction SW3550C/3630C         Spiked Sample ID: 05									: 0903380-0	05A		
Analyte	Sample	Sample Spiked MS MSD MS-MSD LC				LCS	LCS LCSD L		Acce	eptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	430	20	NR	NR	NR	106	106	0	70 - 130	30	70 - 130	30
%SS:	108	50	83	82	0.793	109	110	1.11	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 42062 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903478-001A	03/10/09 10:45 AM	03/18/09	03/19/09 9:14 PM				

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

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

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

N/A = not 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.

A QA/QC Officer

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

"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 42120	120 WorkOrder 0903478				
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					Spiked Sample ID: 0903454-001A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex <sup>£</sup>	ND	0.60	102	93.6	8.40	107	108	0.917	70 - 130	20	70 - 130	20	
MTBE	ND	0.10	84.8	85.5	0.874	96.7	92.5	4.48	70 - 130	20	70 - 130	20	
Benzene	ND	0.10	84.1	82.2	2.23	97.3	91.2	6.51	70 - 130	20	70 - 130	20	
Toluene	ND	0.10	87.4	93.9	7.17	99.3	94.5	4.95	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	0.10	89	93.8	5.27	99.3	94.7	4.73	70 - 130	20	70 - 130	20	
Xylenes	ND	0.30	100	103	2.91	111	107	3.76	70 - 130	20	70 - 130	20	
%SS:	85	0.10	94	85	10.2	106	100	5.67	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 42120 SL	JMMARY			
Lab	D	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
090	03478-001A	03/10/09 10:45 AM	03/18/09	03/19/09 3:15 PM				

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

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

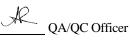
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

£ 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.



McCampbell A		Web: www.mc	CA 94565-1701 aain@mccampbell.com 925-252-9269	
AEI Consultants	Client Project ID: #281939	9; Zimmerman,	Date Sampled:	03/09/09
2500 Camino Diablo, Ste. #200	3442 Adeline, Oakland		Date Received:	03/09/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/13/09
Wallut Creek, CA 94397	Client P.O.: WC081403		Date Completed:	03/13/09

### WorkOrder: 0903204

March 13, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#281939; Zimmerman, 3442 Adeline**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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Project #: 281939	PO: WC08	31403	P	roje	t Na	ne	Zim	meri	nan					801		(55	s (4)		6					827									
<b>Project Location:</b>	3442 Ad	eline, Oa	kland, C	A		2	-							20+		case	pon		802		NLY			25 /			(010)						
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air Sludge	Other	Ice	HCI	HNO <sub>3</sub>	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI					
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1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA 94565-1701 (925) 252-9262					Work	Order	: 09032	204	(	ClientC	ode: AEL	4				
		WriteO	n 🗌 EDF		Excel		Fax	6	🖌 Email		HardCo	ру	Third	Party	J-	flag
Report to:						Bill to:					F	Requ	lested 1	ΓΑΤ:	5 0	days
Robert Flory	Email:	rflory@aeico	nsultants.com				enise Mo									
AEI Consultants	CC:	W0004400					El Consi			"000	. 1	Date	e Recei	vød·	03/09/	2009
2500 Camino Diablo, Ste. #200	PO:	WC081403				-	00 Carr		,		, -					
Walnut Creek, CA 94597	ProjectNo	:#281939; Zir	nmerman, 3442 Ao	deline	,	Wa	alnut Cr	eek, CA	4 94597	7	1	Date	e Printe	?d:	03/09/	2009
(925) 283-6000 FAX (925) 283-6121		Oakland				dn	nockel@	aeicor	nsultant	s.com						
						1		Req	uested	Tests	(See leger	າd be	elow)		1	1
Lab ID Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12

Easte		matrix	Concontrol Paro			-	•	•	•	•	•	v	 	• -
				-										
0903204-001	SW7-11.5	Soil	3/9/2009 9:00		А	Α								
0903204-002	B-3-11	Soil	3/9/2009 9:50		А	Α								

### Test Legend:

1	G-MBTEX_S
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2	TPH(D)_S
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10			

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.



"When Ouality Counts"

### Sample Receipt Checklist

Client Name: AEI Consultants			Date a	and Time Received:	3/9/2009 6:33:33	PM
Project Name: #281939; Zimmerman, 3442 Adelin	ie, Oak	land	Check	klist completed and r	eviewed by: Ana Ve	enegas
WorkOrder N°:         0903204         Matrix         Soil			Carrie	r: <u>Client Drop-In</u>		
<u>Chair</u>	n of Cu	stody (COC)	Informa	ation		
Chain of custody present?	Yes	$\checkmark$	No 🗆			
Chain of custody signed when relinquished and received?	Yes	$\checkmark$	No 🗆			
Chain of custody agrees with sample labels?	Yes		No 🗌			
Sample IDs noted by Client on COC?	Yes	$\checkmark$	No 🗆			
Date and Time of collection noted by Client on COC?	Yes	✓	No 🗆			
Sampler's name noted on COC?	Yes	✓	No 🗆			
<u>S</u>	ample	Receipt Info	ormation	<u>1</u>		
Custody seals intact on shipping container/cooler?	Yes		No 🗆		NA 🔽	
Shipping container/cooler in good condition?	Yes	$\checkmark$	No 🗆			
Samples in proper containers/bottles?	Yes	<b>~</b>	No 🗆			
Sample containers intact?	Yes	$\checkmark$	No 🗆			
Sufficient sample volume for indicated test?	Yes		No 🗌			
Sample Prese	rvatior	and Hold T	ime (HT	) Information		
All samples received within holding time?	Yes		No 🗌			
Container/Temp Blank temperature	Coole	r Temp: 7.6	S°C		NA 🗆	
Water - VOA vials have zero headspace / no bubbles?	Yes		No 🗆	No VOA vials subm	tted 🗹	
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 🗆			
(Ісе Тур	e: WE	TICE )				
* NOTE: If the "No" box is checked, see comments below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

	1	<b>ell Ana</b> en Oualitv C	alytical, Inc.		Web: www.mcca	ampbell.com	ittsburg, CA 9456 E-mail: main@mcc 2 Fax: 925-252-	ampbell.com		
AEI Co	onsultants		Client Project ID: 3442 Adeline, Oak		Zimmermar	n, Date Sa	mpled: 03/0	09/09		
2500 C	amino Diablo, Ste. #2	200				Date Re	eceived: 03/0	09/09		
			Client Contact: R		У		stracted: 03/0			
Walnut	t Creek, CA 94597		Client P.O.: WC0				nalyzed 03/1			
Extraction	Gas method SW5030B	oline Rar	nge (C6-C12) Volatile Hyo Analytical		<b>is as Gasolin</b> W8021B/8015Bn		X and MTBI		ler: 090	3204
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SW7-11.5	S	1200,d2,d9	ND<2.5	2.3	1.4	18	41	50	#
002A	B-3-11	S	38,d1 N	ND<0.50	2.6	ND<0.050	0.49	0.58	10	81
									<u> </u>	
ND me	ting Limit for DF =1; ans not detected at or	W	50	5.0	0.5	0.5	0.5	0.5		g/L
abov	e the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mg	g/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 McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

d2) heavier gasoline range compounds are significant (aged gasoline?)

d9) no recognizable pattern



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		SAMP	LING		ers	I	MAT	RE	X	PRI	ETI		D D	Gas (602 / 8021 +	15)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515/ 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	ÉPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)			
SAMPLE ID	LOCATION/			Containers	Type Containers									12	TPH as Diesel (8015)	um	min	601/	0 X3	8/80	182 P	141 (	151 (	624 /	625/	IMI/	tals (	als (2	200.	5		
SAMTLEID	Field Point Name	Date	Time	ntai	Con	1		9	2 1			3	2	& TP	Dies	etrolo	etrole	12.2	/ BTI	15/ 60	8/80	17/ 8	518	4.21	521	270 S	7 Me	5 Met	00.7	8		
		Date	Time		ype	Water	Soil	AIT	the	ICE	HCL	HNO3	Other	BTEX & TPH	PH as	otal P	otal P	PA 50	TBE	PA 50	PA 60	PA 50	2A 51	A 52	PA 52	A 8.	I WN	14	ad (2	kbesto.		
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	CCampbell Analyti "When Ouality Counts"	<u>cal, Inc.</u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565- bbell.com E-mail: main@mccam 877-252-9262 Fax: 925-252-92	pbell.com	
AEI Consulta	ints		#281939; Zimmerman,	Date Sampled: 03/09	/09	
2500 Camino	Diablo, Ste. #200	3442 Adeline, Oal	kianu	Date Received: 03/09	/09	
		Client Contact: F	Robert Flory	Date Extracted: 03/09/	09	
Walnut Creek	, CA 94597	Client P.O.: WC	081403	Date Analyzed 03/11	/09-03/1	2/09
			roleum Hydrocarbons*			
Extraction method	SW3550C	Analytical	methods: SW8015B	Work Or	der: 090	03204
Lab ID	Client ID	Matrix	TPH-Dies (C10-C23		DF	% SS
0903204-001A	SW7-11.5	S	310,e4		10	115
0903204-002A	B-3-11	S	3.6,e4		1	104
-						

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

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

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

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

e4) gasoline range compounds are significant.



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil			QC Matri	k: Soil			Batch	ID: 41912		WorkC	Order 09032	04
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					s	Spiked San	nple ID	: 0903208-0	009A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>£</sup>	ND	0.60	99.8	96	3.88	105	103	1.76	70 - 130	20	70 - 130	20
MTBE	ND	0.10	112	118	5.34	101	106	4.49	70 - 130	20	70 - 130	20
Benzene	ND	0.10	92.1	98.1	6.32	98.9	100	1.27	70 - 130	20	70 - 130	20
Toluene	ND	0.10	102	108	5.67	110	113	2.08	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	100	108	7.41	109	110	1.16	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	113	116	2.71	120	122	1.23	70 - 130	20	70 - 130	20
%SS:	77	0.10	80	98	20.0	98	100	1.83	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

#### BATCH 41912 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903204-001A	03/09/09 9:00 AM	03/09/09	03/11/09 4:16 PM	0903204-002A	03/09/09 9:50 AM	03/09/09	03/11/09 6:32 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).

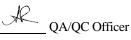
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil						Batch	ID: 41827		WorkC	order 09032	04
EPA Method SW8015B	Extra	ction SW	3550C					5	Spiked San	nple ID	: 0903070-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	34	20	77.4	77.6	0.0964	105	104	0.252	70 - 130	30	70 - 130	30
%SS:	101	50	101	102	0.105	99	99	0	70 - 130	30	70 - 130	30
All target compounds in the Metho NONE								e following		50	70-130	

#### BATCH 41827 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903204-001A	03/09/09 9:00 AM	I 03/09/09	03/11/09 8:51 PM	0903204-002A	03/09/09 9:50 AM	03/09/09	03/12/09 10:09 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.

A QA/QC Officer

When Ouality	i	Web: www.mce	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939 3442 Adeline	); Zimmerman,	Date Sampled:	03/11/09
2500 Camino Diablo, Ste. #200	5442 Adenne		Date Received:	03/11/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/17/09
	Client P.O.: WC081414		Date Completed:	03/17/09

### WorkOrder: 0903287

March 17, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 7 analyzed samples from your project: **#281939; Zimmerman, 3442 Adeline**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

0903287
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Tele: (925) 746-6 Project #: 281939					925) t Nat				max	-		-		8015)/MTBE	GEL CLEANUP	520	418							8270/										
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		SAMP	LING		ers		MA	TRI	x	P	MET	THO	D ED	Gas (602	(\$115)	Oil &	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY			y EPA			Lead (7240/7421/239.2/6010)		-					
SAMPLE ID			1	Containers	Containers			Τ		Ť	T	1	Ì	3	scl (8	Total Petroleum	ţ,m	010	Y (E	080	080	1260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	als	7421							
(Field Paint Name)	LOCATION	Dete	111	tai	Con									Hell,	TPH as Diesel	etrol	ctrol	EPA 601 / 8010	INO	EPA 608 / 8080	8/8	EPA 624 / 8260	12	PN	7 M	LUFT 5 Metals	240					1		
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AEI CONSULTANTS

1534 Willow Pass Rd CA 04565 1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	rg, CA 94565-1701 52-9262					WorkC	)rder:	: 09032	287	Clien	ntCode: AE	L				
			WriteOr		Γ	Excel	[	Fax	✓	Email	HardCo	ору	Thir	dParty	J-`	flag
Report to:						E	Bill to:					Req	uested	TAT:	5 c	days
	, iants no Diablo, Ste. #200 ek, CA 94597	Email: cc: PO: ProjectNo	rflory@aeicor WC081414 : #281939; Zim	nsultants.com nmerman, 3442 A	deline	1	AE 25 Wa	alnut Cr		4597	200		e Rece e Print		03/11/ 03/11/	
									Reque	sted Tes	ts (See lege	nd b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	56	7	8	9	10	11	12
0903287-001	B-3		Soil	3/11/2009 12:40		А	А									
0903287-002	SW9-6.5		Soil	3/11/2009 8:30		А	А									
0903287-003	SW10-6.5		Soil	3/11/2009 12:30		Α	А									

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3/11/2009 9:50

3/11/2009 10:45

3/11/2009 10:00

3/11/2009 12:00

#### Test Legend:

0903287-004

0903287-005

0903287-006

0903287-007

1	G-MBTEX_S
6	
11	

2	TPH(D)WSG_S
7	
12	

Soil

Soil

Soil

Soil

SW9-12

SW6-12

SW8-12

SW8-6.5

3	
8	

4	
9	

5				
10				

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.



"When Ouality Counts"

### Sample Receipt Checklist

Client Name: AEI Consultants				Date and Time Received: 3/11/2009 7:55:54 PM					
Project Name:	Project Name: #281939; Zimmerman, 3442 Adeline				Checklist completed and reviewed by: Ana Venegas				
WorkOrder N°:	0903287	Matrix <u>Soil</u>			Carrie	er: <u>Client Drop-In</u>			
		<u>Chain</u>	of Cu	stody (COC	) Informa	ation			
Chain of custody	v present?		Yes	$\checkmark$	No 🗆				
Chain of custody	v signed when relinqui	shed and received?	Yes	$\checkmark$	No 🗆				
Chain of custody	agrees with sample I	abels?	Yes		No 🗌				
Sample IDs noted	d by Client on COC?		Yes		No 🗆				
Date and Time of	collection noted by Cl	ient on COC?	Yes		No 🗆				
Sampler's name i	noted on COC?		Yes		No 🗆				
Sample Receipt Information									
Custody seals in	tact on shipping conta	iner/cooler?	Yes		No 🗆		NA 🔽		
Shipping container/cooler in good condition?			Yes	$\checkmark$	No 🗆				
Samples in prope	er containers/bottles?		Yes		No 🗆				
Sample containe	ers intact?		Yes	$\checkmark$	No 🗆				
Sufficient sample	e volume for indicated	test?	Yes		No 🗌				
		Sample Prese	vatio	n and Hold	<u>Time (HT</u>	<u>) Information</u>			
All samples recei	ived within holding tim	e?	Yes		No 🗌				
Container/Temp	Blank temperature		Coole	er Temp:			NA 🗹		
Water - VOA via	ls have zero headspa	ce / no bubbles?	Yes		No 🗆	No VOA vials subm	itted 🗹		
Sample labels ch	necked for correct pre	servation?	Yes	$\checkmark$	No 🗌				
TTLC Metal - pH acceptable upon receipt (pH<2)?			Yes		No 🗆		NA 🗹		
Samples Receive	ed on Ice?		Yes		No 🗹				

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

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell Anal en Ouality Cour			Web: www.mcca	mpbell.com	tittsburg, CA 9456 E-mail: main@mcc 2 Fax: 925-252-	ampbell.com				
AEI Consultants			Client Project ID: #281939; Zimmerman,			Date Sampled: 03/11/09						
2500 C		3442 Adeline	3442 Adeline			Date Received: 03/11/09						
2500 Ca	amino Diablo, Ste. #2	200	Client Contact:	Client Contact: Robert Flory				Date Extracted: 03/11/09				
Walnut Creek, CA 94597			Client P.O.: WC081414				Date Analyzed 03/12/09-03/16/09					
	Gas	oline Rang	e (C6-C12) Volatile H	vdrocarbor	ns as Gasolin		-					
Extraction n	nethod SW5030B				W8021B/8015Bm				ler: 090	3287		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS		
001A	B-3	S	130,d1	ND<0.50	0.81	0.12	1.5	2.5	10	118		
002A	SW9-6.5	S	ND	ND	ND	ND	ND	ND	1	90		
003A	SW10-6.5	S	5.6,d1	ND	0.045	0.0062	0.0089	0.012	1	81		
004A	SW9-12	S	5.0,d1	ND	0.82	ND	0.20	0.20	1	84		
005A	SW6-12	S	4.9,d1	ND	0.54	ND	0.15	0.16	1	78		
006A	SW8-12	S	12,d1	ND	0.58	0.0091	0.15	0.19	1	104		
007A	SW8-6.5	S	12,d7,d9	ND	0.085	0.0084	0.027	0.070	1	85		
										1		
	ing Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	u	g/L		
	ins not detected at or the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mg	g/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.

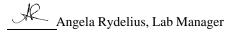
# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

d1) weakly modified or unmodified gasoline is significant

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern



	CCampbell Analyti "When Ouality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269					
AEI Consultants		Client Project ID: #281939; Zimmerman,		Date Sampled: 03/11/09			
2500 Camino Diablo, Ste. #200		3442 Adeline		Date Received: 03/11/09			
		Client Contact:	Date Extracted: 03/11/	1/09			
Walnut Creek	, CA 94597	Client P.O.: WC	081414	Date Analyzed 03/12/	Date Analyzed 03/12/09-03/13/09		
			rocarbons with Silica Gel				
Extraction method	SW3550C/3630C	Analytica	I methods: SW8015B	Work Or	der: 090	03287	
Lab ID	Client ID	Matrix	TPH-Dies (C10-C23		DF	% SS	
0903287-001A	B-3	S	13,e4	5	96		
0903287-002A	SW9-6.5	S	ND	1	92		
0903287-003A	SW10-6.5	S	ND				
0903287-004A	SW9-12	S	ND				
0903287-005A	SW6-12	S	ND				
0903287-006A	SW8-12	S	S 1.1,e4				
0903287-007A SW8-6.5 S			5.2,e11,e	22	1	96	

Reporting Limit for DF =1;	W	NA	NA	
ND means not detected at or	S	1.0	mg/Kg	
above the reporting limit			00	

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

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

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

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager

"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil			QC Matrix	k: Soil			Batch	ID: 41945		WorkOrder 0903287							
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					5	Spiked San	nple ID	: 0903236-0	06A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	Criteria (%)							
, analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD					
TPH(btex <sup>£</sup>	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 B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:								

#### BATCH 41945 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903287-001A	03/11/09 12:40 PM	I 03/11/09	03/16/09 4:02 PM	0903287-002A	03/11/09 8:30 AM	03/11/09	03/13/09 10:00 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).

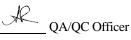
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil			QC Matriz	x: Soil			Batch	ID: 41973	WorkOrder 0903287									
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					s	Spiked Sample ID: 0903297-015A									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1						
, mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD						
TPH(btex <sup>f</sup> )	ND	0.60	99.3	111	10.8	102	103	0.855	70 - 130	20	70 - 130	20						
MTBE	ND	0.10	102	111	8.93	116	113	2.49	70 - 130	20	70 - 130	20						
Benzene	ND	0.10	108	99.6	7.94	102	99 2.88		70 - 130	20	70 - 130	20						
Toluene	ND	0.10	95.9	89.5	6.99	114	111	2.99	70 - 130	20	70 - 130	20						
Ethylbenzene	ND	0.10	107	101	5.60	112	108	3.54	70 - 130	20	70 - 130	20						
Xylenes	ND	0.30	102	98.4	3.24	121	118	2.69	70 - 130	20	70 - 130	20						
%SS:	92	0.10	78	78	0	100	96	3.82	70 - 130	20	70 - 130	20						
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:									

#### BATCH 41973 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903287-003A	03/11/09 12:30 PM	03/11/09	03/12/09 11:39 PM	0903287-004A	03/11/09 9:50 AM	03/11/09	03/13/09 12:13 AM
0903287-005A	03/11/09 10:45 AM	03/11/09	03/16/09 5:46 PM	0903287-006A	03/11/09 10:00 AM	03/11/09	03/13/09 1:19 AM
0903287-007A	03/11/09 12:00 PM	03/11/09	03/14/09 4:08 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).

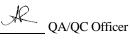
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matriz	x: Soil			Batch	ID: 41911	WorkOrder 0903287							
EPA Method SW8015B	Extra	ction SW	3550C/3	630C				5	Spiked San	nple ID	: 0903203-0	004A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)					
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD				
TPH-Diesel (C10-C23)	2.0	20	94.9	97.8	2.78	86	85.2	0.944	70 - 130	30	70 - 130	30				
%SS:	96	50	99	102	3.35	83	81	3.15	70 - 130	30	70 - 130	30				
All target compounds in the Metho NONE	96         50         99         102         3.35         83           ompounds in the Method Blank of this extraction batch were ND less than the method I															

#### BATCH 41911 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903287-001A	03/11/09 12:40 PM	03/11/09	03/13/09 1:19 AM	0903287-002A	03/11/09 8:30 AM	03/11/09	03/12/09 4:12 PM
0903287-003A	03/11/09 12:30 PM	03/11/09	03/12/09 5:21 PM	0903287-004A	03/11/09 9:50 AM	03/11/09	03/12/09 6:29 PM
0903287-005A	03/11/09 10:45 AM	03/11/09	03/12/09 7:37 PM	0903287-006A	03/11/09 10:00 AM	03/11/09	03/13/09 7:48 PM
0903287-007A	03/11/09 12:00 PM	03/11/09	03/13/09 12:11 AM				

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

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

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

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

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

DHS ELAP Certification 1644

A QA/QC Officer

# **APPENDIX C**

SVE Casing Testing SOP And Field Data Sheets

# AEI CONSULTANTS OPERATIONS & MAINTENANCE WORK ORDER

	Duciesh N	In second	71			Cline	L Carlos I.		
	Project N Project Nu		Zimmern 281939	ian	-		t Contact: Manager:	Bob Flo	ory
						Color / Contor	- -	-	
			н	ours		Gate / Syster PC	m Combo: ) Number:	WC08	1571
	Activity		Budget	Actual					27+h
					<u> </u>	Scheduled W			ØK, 2009
		•					Flexible:	(YES	) NO
			a a mainte i por construction de la construcción de la construcción de la construcción de la construcción de la			Site	e Contact:		
							ite Phone:		
					_	Site	e Address:		deline Street
					_			Oaklan	id, CA 94608
				anna an ann an an an an an		and the second spectra states of the	· · · · · · · · · · · · · · · · · · ·		
					in and a second second	1997 - The Control of		azanat barranat beken ana ana ang manakan ng	
						vell field screer			
Si	ummary of					s (SVE-1, 2, & ) n each horizon			k CO2 w/ RKI Eag
	k Requested					t) and stabilize			
			*Note: us	se the 115	VAC, 1/3HP	GAST DOA vac	uum pump	(~1.8 CFM	I free air flow).
			Readings	should sta	abilize within	5 to 10 minute	s. Stop / rec	ord reading	gs after 10 minut
11/	Not <u>Completed</u>					- 2010			
mpleted	<u>Completed</u> O 1.					TVH, CH4, O2 ℃H, CH4, O2,			gas detector.
₩ M	<u>Completed</u> O 1. O 2.	Record t	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	-
₩ M	<u>Completed</u> O 1. O 2.	Record t	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	gas detector. or lab analysis.
ф М	Completed 0 1. 0 2. 0 3.	Record t Once rea	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	-
р р д	Completed 0 1. 0 2. 0 3. 0 4. 0 5.	Record t Once rea	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	-
	Completed 0 1. 0 2. 0 3. 0 4. 0 5. 0 6.	Record t Once rea	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	_
	Completed         O       1.         O       2.         O       3.         O       4.         O       5.         O       6.         O       7.	Record t Once rea	he initial (hi	ighest) and	d stabilized 7	VH, CH4, O2,	& CO2 read	ings.	-
	Completed         O       1.         O       2.         O       3.         O       4.         O       5.         O       6.         O       7.         O       8.	Record t Once rea	he initial (hi Idings stabi	ghest) and lize, collect	d stabilized T	∿H, CH4, O2, edlar bag from	& CO2 read each horizo	ings. Intal well fo	or lab analysis.
	Completed         O       1.         O       2.         O       3.         O       4.         O       5.         O       6.         O       7.         O       8.         O       9.	Record t Once rea	he initial (hi Idings stabi e to check i	ighest) and lize, collect	d stabilized T t a 1-Liter Te tus and upda	VH, CH4, O2, edlar bag from ate project mar	& CO2 read each horizo nager before	ings. Intal well fo	or lab analysis. ne site.
	Completed         O       1.         O       2.         O       3.         O       4.         O       5.         O       6.         O       7.         O       8.         O       9.	Record t Once rea	he initial (hi Idings stabi e to check i	ighest) and lize, collect	d stabilized T t a 1-Liter Te tus and upda	VH, CH4, O2, edlar bag from ate project mar	& CO2 read each horizo nager before	ings. Intal well fo	or lab analysis.
	Completed         Q       1.         Q       2.         Q       3.         Q       4.         Q       5.         Q       6.         Q       7.         Q       8.         Q       9.         Q       10	Record t Once rea	he initial (hi ndings stabil e to check i the 1-liter 7	ighest) and lize, collect	d stabilized T t a 1-Liter Te tus and upda	VH, CH4, O2, edlar bag from ate project mar	& CO2 read each horizo nager before , Inc. of Pitt	ings. Intal well fo	or lab analysis. ne site.
	Completed         Q       1.         Q       2.         Q       3.         Q       4.         Q       5.         Q       6.         Q       7.         Q       8.         Q       9.         Q       10	Record t Once rea Call offic	he initial (hi ndings stabi e to check i the 1-liter T	ighest) and lize, collect n with stat	d stabilized T t a 1-Liter Te tus and upda s to McCamp	TVH, CH4, O2, edlar bag from te project mar obell Analytical,	& CO2 read each horizo hager before finc. of Pitte	ings. Intal well fo e leaving th sburg, CA t	or lab analysis. ne site. for lab analysis.
Analyses	Completed 0 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 9. 0 10	Record t Once rea Call offic Deliver None Rush	he initial (hi ndings stabi e to check i the 1-liter T	ighest) and lize, collect n with stat redlar bage	d stabilized T t a 1-Liter Te tus and upda s to McCamp TPH-d 48 hours	TVH, CH4, O2, edlar bag from te project mar obell Analytical,	& CO2 read each horizo nager before Inc. of Pitte	ings. Intal well fo e leaving th sburg, CA i OCs	ne site. for lab analysis. HVOCs
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Analyses Turnarou Consum	Completed 0 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 9. 0 10 s: und Time: ables Used:	Record t Once rea Call offic Deliver None Rush # of Te	he initial (hi ndings stabil e to check i the 1-liter 7 TF 24 dlar Bags: _	ighest) and lize, collect n with stat redlar bage	d stabilized T t a 1-Liter Te tus and upda s to McCamp TPH-d 48 hours Tygon T # of Soil	TVH, CH4, O2, edlar bag from te project mar obell Analytical, MBTE 72 hou ubing (ft):	& CO2 read each horizo hager before Inc. of Pitte V( irs St V( irs St P) - #	e leaving the sburg, CA to CCs	ne site. for lab analysis. HVOCs

DATE: 4

# **AEI CONSULTANTS**

PAGE: 1 OF: 1

SOIL GAS PROBE FIELD SCREENING DATA SHEET

Project Name:	ZIMMERMAN

Field Technician:	JOHN

Location:

Project No.:

Conditions:

Project Manager:

Soil Gas Probe ID	Date/ Time	*Vacuum/ Pressure (in-H2O)	Purge Vacuum (in-H2O)	PID (ppmv)	**TVH (ppmv)	CH₄ (%)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)
SVE-1	19450	0.0	13.5		0	0	10.4	8.1
	. 3				40	6	10.5	8.0
	<u>ତ</u> ୍ର ପ୍ର				50	0	10.6	8.0 7.9
	(7)				60	0	10.7	77
	(D)				60	0	10.7	7.7
	(10)	Å	4		100	0	10.7	7.7
0 - 0								
SVE-2	1030 (1)	0.0	13.0		0	0	9.5	8.3
	(3)				40	0	10.6	7.9
	(E)				55	0	8.9	8.1
	<u> </u>				60	0	8.G	8.1
	Q				60	0	9.0	8.1
	(10)	<u> </u>	¥		60	0	9.0	8.1
Cur D	1115 D		125					20
SVE-3	1115 (T) (3)	0,0	12.5		0	0	10.6	7.9
					55	0	9.2	8.3
	(J) F				55	0	8.9	8.5
					55	0	8.9	8.5
	(9)		47		55	0	8,9	8.5
	(10)	¥	Y		55	Ø	8.9	85

NOTES:

\*Use a plus sign (+) to indicate a positive pressure reading

\*\*Use 1:1 or 3:1 dilution fitting if oxygen level falls below 8%, or TVH reading is greater than 11,000 ppmv; record initial TVH, CH<sub>4</sub>, O<sub>2</sub>, & CO<sub>2</sub> readings w/o dilution fitting first, then record final readings w/ dilution fitting on next line; multiply TVH reading only by 2 for 1:1 dilution fitting and by 4 for 3:1 dilution fitting

in-H2O = inches of water (gauge) ppmv = parts per million by volume % = percent concentration by volume

	AEI CONSULTANTS PAGE OF DAILY FIELD REPORT
Location:	Zimmannan     Field Person:     John Sigg       Date:     4/27/09     Weather:
Daily Summar	ry:
Subcontractors	s:
Materials:	
TIME	SUMMARIZE FIELD ACTIVITIES
0830	LEAVE OFFICIE
0900	ADDIVE @ SITE Screen SVE-1, 20, 3 & COLLECT T.B SAMPLES FROM DACH.
1115	LEAVE SITE
1145	ARRIVE @ OFFICE
	+ 11th TO Drop samples a McCampbell
	d Person Signature:

	McCAI	MPBEL	L ANA	LYI	<b>TICA</b>	LI	INC	2.		-				Т	-		-		C	FT A	TN	In	NIC'	CI	TC	TO		17 1	NT.	CO	TAT	<u> </u>		-
		Pitt	Willow Pa sburg, CA		d						3.				TI	RN	A	20	TIN		TIN		ЪЩ,	C C	]] ]			IF	CEU		KI		10	ð
Telepho	one: (925) 25	52-9262		- 1000	1	Fax:	(92	25) 2	252-9	26	9														USH		24 H	R		HR		72 HF		AV
Report To: Robe	rt Flory			D:II T			_		<	-		_	-	I	EDF	Ree	quir	ed?		K	Yes	5			No					,		72 m		DAY
Company: AEI (				Bill T	o: sai	ne	-(		P.O.	# V	VCU	815	71	P		-	-		An	aly	sis F	Requ	uest	:						Othe	er	C	mme	nts
	Camino Dia	blo					-	-						-		2				Gel														
	ut Creek, C			E-N	Iail:rf	lorud	2000	icon	culto					-	l gel	1 16				w/ Silica Gel														
Tele: (925) 746-6	000			Fax:					suna	115.0	:om			5	ilica	EP	-			/ Sil				310										
Project #: 281939				Proie					rmai	1		-		+ 8015)	G W S	gel	118.1			5) w				0/8								4		
<b>Project Location:</b>	3442 Adelin	e Street,	Oakland	, CA						•	1.				ange	w/sil	ns (4		50)	801	х			827										
Sampler Signatur	e: Urily	NY	ONK											02/8(	lti-i	Sria	nthoi		/ 80	OW	NL			25/			(010)							
	0		PEING	T	LS	Γ	MA	TR	IX	Τ.	ME	THO	D	Gas (602/8020	TPH as Diesel (8015) -Multi-range w silica	Hexane Extractable Materia w/sil gel EPA 1664	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (G/D/MO 8015)	EPA 608 / 8080 PCB's ONLY		EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA 625 / 8270 / 8310	20		Lead (7240/7421/239.2/6010)							
SAMPLE ID				ers	aine				T	t		T		H as	8015	tabl	μH	3260	E	nge	0 PC	0	0 - S	by	ls 60		112							
(Field Point Name)	LOCATION	and the second sec		Containers	Type Containers							1		MBTEX & TPH as	sel (	xtrac	oleu	HVOCs EPA 8260	ILY	i-Ra	808	EPA 624 / 8260	827	NA'S	CAM-17 Metals 6020	LUFT 5 Metals	01742							
		Date	Time	ont	e C	Water	_		Sludge		4	6	er .	EX 8	Die	IC E	Petr	CSE	Ő	Mult	808	524 /	25/	Id / S	ITA	5 M	724(							7
				#	1	Wa	Soil	Air	Slu	Toner	HCI	HNO	Other	ABT	Has	Iexa	otal	N	TE	Hd	PA	PA (	PA (	AH	AM.	E	) pag	RCI						
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SVE-2		1	10:20	1	H-			x		+		+	-	X				-		_		_	_											
SVE-3		V	1115	1	V		-	X		+		+	$\square$	X	-					_	_													
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	AEI CONSULTANTS PAGE OF DAILY FIELD REPORT
	Zimmerman     Field Person:     J. Sigg       Project Manager:
Daily Summary	
Materials:	
TIME	SUMMARIZE FIELD ACTIVITIES
1000	ARRIVE @ SITE
1197 - Miles 9 (200 - 111 - 1798) - 1 	SCREEN SVE-1, 2 2, 3 W/EAGLE
1130	LEAVE SITE
an na san an a	
nditan kan padalihita pas tan ataraban pada manyan di	
ריינער אינעראיי אינעראיין איז אינעראיין איז אינעראיין איז אינעראיין איז	
Gast, I. en ark and state that will be	
0000-2012-0027-2020-0020-0029-0022-2020-002	
197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197	
	Person Signature: Som Sigg

0

Field Person Signature: \_\_\_\_\_ Project Manager Signature: \_\_\_\_\_

(

DATE: 6 2

#### AEI CONSULTANTS SOIL GAS FIELD SCREENING DATA SHEET

PAGE:\_\_\_\_OF:\_\_

Project Name: Zimmerman

Location: 3442 Adeline Street, Oakland, CA

Field Technician: J. Sigg Project Manager: R. Flory

Project No.: 281939

Conditions:

Well ID	Date/ Time	*Vacuum/ Pressure (in-H2O)	Purge Vacuum (in-H2O)	**TVH (ppmv)	CH₄ (%)	O <sub>2</sub> (%)	CO <sub>2</sub> (%)
SVE-1	1100		20	0	0	14.4	6.
SVE-2	1030		120	) 0	Ø	14,2	6.0
SVE-3	1045		$\begin{pmatrix} 10 \end{pmatrix}$	D	Ь	13.9	6.0

#### NOTES:

\*Use a plus sign (+) to indicate a positive pressure reading

\*\*Use 1:1 or 3:1 dilution fitting if oxygen level falls below 8%, or TVH reading is greater than 11,000 ppmv; record initial TVH,  $CH_4$ ,  $O_2$ , &  $CO_2$  readings w/o dilution fitting first, then record final readings w/ dilution fitting on next line; multiply <u>TVH reading only</u> by 2 for 1:1 dilution fitting and by 4 for 3:1 dilution fitting

in-H2O = inches of water (gauge) ppmv = parts per million by volume % = percent concentration by volume

McCampbell An "When Quality		Web: www.mco	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	04/27/09
2500 Camino Diablo, Ste. #200			Date Received:	04/27/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	04/30/09
Wallat Crock, Cri 91897	Client P.O.: #WC081571		Date Completed:	04/28/09

#### WorkOrder: 0904638

April 30, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#281939; Zimmerman**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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and the second second		Pitts	burg, CA 9											1	TU	RN	AR	103	UN	DI	FIN	1E		Ę				-					×	
Telepho	ne: (925) 25	2-9262		Fax: (925) 252-9269					E	DF	Reg	uire	ed?	5	X	Yes				JSH No		24 H	IK	48	HR	/	2 HR	51	AY					
Report To: Rober	t Flory		E	Bill To	: san	ne	1	P	.0.	¥ W	/C08	815	71	5					_		sis R		_	_					(	Othe	r	Co	nmei	its
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Waln	ut Creek, C	A 94597		E-M	ail:rfl	ory@	Daei	cons	ultan	ts.c	om				ica 8	PA				Silica				010										
Tele: (925) 746-60	000		F	ax: (	925)	746	-60	99						8015)	w silica	elE	8.1)			/m				/ 83								I		
Project #: 281939			P	rojec	t Nar	ne:Z	Lim	mer	man	1				+	ge v	silg	(41)		-	015)				8270 /								1		
Project Location:3	3442 Adelin	e Street, (	Oakland,	CA										8020	-ran	M/M	ons		020	0 8(	LY			5/8			6					I .		
Sampler Signature	e: John	nSi	2VX											(602/8020	fulti	teria	carb		2/8	D/M	NO		Co	V 625 /			/601							
	0	SAMP	LING		s		MA	TR	IX	T,	ME			as Gas (	5)-N	le Ma	lydro	0	A 60	(G/I	CB's		SVO	EP.A	020		239.2							
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	T	HCI	1		MBTEX & TPH as	TPH as Diesel (8015) -Multi-range	Hexane Extractable Materia w/sil gel EPA 1664	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (G/D/MO 8015)	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA	CAM-17 Metals 6020	EUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI						
SVE-1		4-27-09	0945	1	TB			Х		Т				Х																				
SVE-2		1	1030	1				X		t		-		X																-	1			
SVE-3		V	HIS	1	V		-	X		$^+$	+	1		X									-						+	-	+	-		
		1	MD	-	-		-		5	+	+-	+				-		-	-		_	-	-		-	-	-	-	-	-	-	-		
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Relinquished By:		Date:	Time: (340,	Rece	ved B	1	10	1	i	/	1	2/	-	в		1	1	9		_				_			_		AS	D&G	м	ETALS	оті	HER
Relinquished By:		Date:	Time:	Recei	ved B	_								(	CE/	DC					_		A	PPF	ROP	RIA	TE	N	/				_	-
Relinquished By:		Date:	Time:	Recei	ved By	v:				_		_	-		IEA							3		ON				INL	AB					
									DECHLORINATED IN LAB PERSERVED IN LAB																									

.

1534 Willow Pass Rd Pittsburg CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090463	38 Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	I to:		Rec	uested TAT:	5 days
Robert Flory AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Email: cc: PO: ProjectNo:	rflory@aeiconsult #WC081571 #281939; Zimme					0	te Received: te Printed:	04/27/2009 04/27/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com			

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0904638-001	SVE-1	Air	4/27/2009 9:45		А	А										
0904638-002	SVE-2	Air	4/27/2009 10:30		А											
0904638-003	SVE-3	Air	4/27/2009 11:15		А											

#### Test Legend:

1	G-MBTEX_AIR	2	
6		7	
11		12	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5	
10	

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

Prepared by: Maria 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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants				Date a	and Time Received:	04/27/09 1	:52:09 PM
Project Name:	#281939; Zimmer	man			Check	klist completed and re	eviewed by:	Maria Venegas
WorkOrder N°:	0904638	Matrix <u>Air</u>			Carrie	er: <u>Client Drop-In</u>		
		<u>Chain</u>	of Cu	stody (COC	) Informa	ation		
Chain of custody	v present?		Yes	$\checkmark$	No 🗆			
Chain of custody	v signed when relinquis	shed and received?	Yes	$\checkmark$	No 🗆			
Chain of custody	agrees with sample la	abels?	Yes	$\checkmark$	No 🗌			
Sample IDs noted	by Client on COC?		Yes	$\checkmark$	No 🗆			
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆			
Sampler's name i	noted on COC?		Yes		No 🗆			
		<u>Sa</u>	ample	Receipt Inf	ormation	<u>1</u>		
Custody seals in	tact on shipping contai	iner/cooler?	Yes		No 🗆		NA 🔽	
Shipping contain	er/cooler in good condi	ition?	Yes	$\checkmark$	No 🗆			
Samples in prope	er containers/bottles?		Yes	✓	No 🗆			
Sample containe	ers intact?		Yes	$\checkmark$	No 🗆			
Sufficient sample	e volume for indicated	test?	Yes	$\checkmark$	No 🗌			
		Sample Preser	vatio	n and Hold 1	<u>ime (HT</u>	) Information		
All samples recei	ived within holding time	e?	Yes	$\checkmark$	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:			NA 🗹	
Water - VOA via	ls have zero headspac	ce / no bubbles?	Yes		No 🗆	No VOA vials subm	itted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes		No 🗌			
TTLC Metal - pH	acceptable upon recei	pt (pH<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes		No 🗹			

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

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampb			cal, Iı	<u>nc.</u>	Web	: www.mccamp	Pass Road, Pittsburg bell.com E-mail:	main@mccamp	bell.com							
AEI C	Consultants	en Ouality (	Counts"	Client P	roject ID: #	#281939; Zin		Date Sample									
<b>25</b> 00 /		200						Date Received: 04/27/09									
2500 0	Camino Diablo, Ste. #2	200		Client (	Contact: Ro	obert Flory		Date Extract	ed: 04/27	7/09							
Walnu	ıt Creek, CA 94597			Client F	P.O.: #WC0	81571		Date Analyzed: 04/27/09									
	G	asoline R	ange (	C6-C12)	Volatile Hy	drocarbons											
	on method: SW5030B				-	vtical methods:		1 1			1	0904638					
Lab ID	Client ID	Matrix	TP	H(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments					
001A	SVE-1	Α		51	ND	ND	ND	ND	0.62	1	114	d1					
002A	SVE-2	Α		48	ND	0.29	ND	0.26	1.1	1	115	d1					
003A	SVE-3	А	I	ND	ND	ND	ND	ND	ND	1	100						
											1						
Repo	rting Limit for DF =1;	A		25	2.5	0.25	0.25	0.25	0.25	<u> </u>	 μg/Ι	<u> </u>					
ND m	eans not detected at or ve the reporting limit	S		1.0	0.05	0.005	0.23	0.23	0.23		mg/k						
	and vapor samples are re	eported in	µg/L, so	oil/sludge/s	solid samples	in mg/kg, wip	e samples in	µg/wipe, produc	t/oil/non-aque	eous liqu	id sample	s in mg/L.					
	red chromatogram; sam																
							Name 1 1 A	1-41-1		46 - 2 - 2							
+The fo	ollowing descriptions of	the TPH of	enromat	ogram are	cursory in n	ature and McC	ampbell Ana	alytical is not re	sponsible for	their in	terpretatio	on:					

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant

3	<u>McCam</u>		Analyti alitv Counts"	<u>cal, Inc.</u>		Web: www.mccam	Pass Road, Pittsburg pbell.com E-mail: 877-252-9262 Fax						
AEI C	onsultants			Client Project ID:	#281939;	#281939; Zimmerman Date Sampled: 04/27/09							
2500 0	Camino Diablo, S	te. #200					Date Receive	ed: 04/27/0	19				
Client Contact: Robert Flory Date Extracted: 04/27/09													
Walnu	tt Creek, CA 945	97		Client P.O.: #WC	081571		Date Analyz	ed: 04/27/0	19				
_			ange (C6-0		th MTBE and I	BTEX in ppn							
	on method: SW5030	1			lytical method	1	1	<b>X</b> 1	1	k Order:	0904638		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments		
001A	SVE-1	А	14	ND	ND	ND	ND	0.14	1	114	d1		
002A	SVE-2	А	14	ND	0.089	ND	0.059	0.25	1	115	d1		
003A	SVE-3	А	ND	ND	ND	ND	ND	ND	1	100			
	ppm (mg	/L) to ppm	v (ul/L) con	version for TPH(g) as	sumes the n	nolecular weigh	t of gasoline to b	e equal to that	of hexa	nne.			

Reporting Limit for DF =1; ND means not detected at or	А	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air		(	QC Matrix	k: Water			Batch	ID: 42911	WorkOrder: 0904638							
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B				Spiked Sample ID: 0904636									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	D Acceptance Criteria (%)							
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD				
TPH(btex <sup>f</sup> )	ND	60	105	106	1.41	76.2	81.3	6.51	70 - 130	20	70 - 130	20				
MTBE	ND	10	95.8	102	6.02	98	86	13.1	70 - 130	20	70 - 130	20				
Benzene	ND	10	85.4	85.9	0.622	106	110	3.80	70 - 130	20	70 - 130	20				
Toluene	ND	10	84.4	84.7	0.425	99.3	108	8.49	70 - 130	20	70 - 130	20				
Ethylbenzene	ND	10	83.7	83.4	0.288	96.4	102	5.70	70 - 130	20	70 - 130	20				
Xylenes	ND	30	84.8	84.2	0.697	89.4	99.6	10.8	70 - 130	20	70 - 130	20				
%SS:	102	10	97	96	0.764	108	105	2.80	70 - 130	20	70 - 130	20				
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:							

#### BATCH 42911 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904638-001A	04/27/09 9:45 AM	04/27/09	04/27/09 6:32 PM	0904638-002A	04/27/09 10:30 AM	04/27/09	04/27/09 7:02 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 = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air		(	QC Matrix	c: Water			Batch	ID: 42913	WorkOrder: 0904638								
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					s	Spiked San	nple ID	: 0904677-0	02B					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	D Acceptance Criteria (%)								
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD					
TPH(btex <sup>£</sup>	ND	60	111	103	7.53	113	120	6.00	70 - 130	20	70 - 130	20					
MTBE	ND	10	87.3	95.4	8.88	73.6	82.3	11.2	70 - 130	20	70 - 130	20					
Benzene	ND	10	98.6	102	3.22	82	89.4	8.57	70 - 130	20	70 - 130	20					
Toluene	ND	10	99	99.3	0.287	79.9	89	10.7	70 - 130	20	70 - 130	20					
Ethylbenzene	ND	10	102	104	1.60	84.9	92.5	8.66	70 - 130	20	70 - 130	20					
Xylenes	ND	30	101	105	2.99	93.9	102	8.54	70 - 130	20	70 - 130	20					
%SS:	100	10	102	97	5.18	94	93	1.47	70 - 130	20	70 - 130	20					
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	ith the following exceptions:									

				BATCH 42913 SL	JMMARY			
l	Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
	0904638-003A	04/27/09 11:15 AM	04/27/09	04/27/09 7:33 PM				

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS ELAP Certification 1644



# **APPAPPENDIX D**

Water Disposal Permit and Analyses



DAVID R. WILLIAMS DIRECTOR OF WASTEWATER

C E R T I F I E D M A I L (Return Receipt Requested) Certified Mail No. 7005 2570 0000 6629 8528

Mr. Kirby Fernando AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

Dear Mr. Fernando:

Re: Wastewater Discharge Permit No. 50642901

Enclosed is the Special Discharge Permit (Permit) for discharge at site 3442 Adeline Street, Oakland to be used for your information and records. Please read the Permit terms and conditions and the enclosed *Special Discharge Permit Standard Terms and Conditions*. As a Permit Holder, you are legally responsible for complying with all Permit conditions and requirements.

AEI Consultants shall contact the Environmental Services Division at least three working days prior to start-up of the permitted discharge and when the discharge is completed.

AEI Consultants shall report to the Environmental Services Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of permitted discharge or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Angelee Cari of the Environmental Services Division at (510) 287-0290.

Sincerely.

BENNETT K. HORENSTEIN Manager of Environmental Services

BKH:ADC:adc



#### GENERAL CONDITIONS

- AEI Consultants shall comply with all items of the attached Special Discharge Permit Standard Terms and Conditions.
   AEI Consultants shall discharge Special Discharge Wastewater only from the specific source described in the Special Discharge Permit Terms & Conditions, Criteria and Fees form. The discharge of all other wastewater must comply with EBMUD Ordinance No. 311A-03.
- III. AEI Consultants shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.
- IV. This Special Discharge Permit is considered a waiver of EBMUD Ordinance No. 311A-03, prohibiting:
  - Discharge of wastewater directly into a manhole or other opening into the community sewer system, contingent upon approval from the City of Oakland.
  - Discharge of stormwater, drainage water, and groundwater to the community sewer, contingent upon compliance with Permit terms and conditions regarding those discharges.
- V. AEI Consultants shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

#### **COMPLIANCE REQUIREMENTS**

- AEI Consultants shall pre-treat or manage all Special Discharge Wastewater prior to discharge to the side sewer.
   Pretreatment or management shall be sufficient to achieve compliance with the limits established in this Special Discharge Permit.
- II. AEI Consultants shall post a sign in the work area stating "All Wastewater Discharge must comply with the Special Discharge Permit."
- III. AEI Consultants shall not discharge to the sanitary sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.
- IV. AEI Consultants shall not discharge wastewater at a flow rate greater than 100 gallons per minute.
- V. AEI Consultants is responsible for obtaining local permits for use of manholes or cleanouts for discharge.
- VI. AEI Consultants shall obtain approval if required from the City of Oakland for the side sewer discharge location through which the special discharge wastewater is to be discharged, and shall comply with the terms and conditions set by this public agency owning the sanitary sewer system at the subject location.

#### WASTEWATER DISCHARGE LIMITS

AEI Consultants shall not discharge Special Discharge Wastewater into the community sewer if the strength of the wastewater exceeds:

- Benzene = 5  $\mu$ g/L; Toluene = 5  $\mu$ g/L; Ethylbenzene = 5  $\mu$ g/L; Total Xylenes = 5  $\mu$ g/L
- ☑ Limits derived from EBMUD Ordinance No. 311A-03.

#### INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. AEI Consultants shall grant District personnel access to the facility and discharge logs to conduct inspections and collect Special Discharge Wastewater samples.

#### ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit and *Special Discharge Permit Standard Terms and Conditions* may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to \$5,000 per day.

#### **RATES AND CHARGES**

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit. The estimated volume of discharge is 6,500 gallons. The discharge shall be charged \$0.02 per gallon for the entire volume of discharge and the permit fee is \$900.



PERMIT NUMBER 50642901

# SPECIAL DISCHARGE PERMIT Terms and Conditions

#### AUTHORIZATION

Special Discharger AEI Consultants is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with EBMUD Ordinance No. 311A-03, Special Discharge Permit Terms and Conditions, and billing conditions.

Effective: May 20, 2009

Expiration: August 20, 2009

vers.

<u>0</u>~

Director, Wastewater Department

# ALL WASTEWATER DISCHARGED MUST COMPLY WITH THE SPECIAL DISCHARGE PERMIT

# AEI Consultants Permit # 50642901 Effective: 5/20/09 – 8/20/09

# PREVENT POLLUTION Help Us Keep the Bay Clean

# IN CASE OF SPILL Call 510 287-1651

Or 1-866-40-EBMUD during Non-Business Hours (toll free 1-866-403-2683)



SPECIAL	DISCHARGE	PERMIT
---------	-----------	--------

<i>SR</i>	SPECIAL DISCI	HARGE PERMIT
EBMUD PERMIT NUMBER	A	PPLICANT FORM
APPLICANT BUSINESS NAME AEI Consultants		SIC CODE
ADDRESS OF SITE DISCHARGING WASTEWATER	APPLICANT MAILING ADDRES	S
3442 Adeline	2500 Camino Diablo #200 Street Address	
Oakland 94608 CITY ZIP CODE	Walnut Creek	94597 Zip Code
CONTACT PERSONS APPLICANT		
KIRBY FERNANDO Name	PROJECT MANAGER9	25-746-6000 /594-2899 Phone Number
CONSULTANT		
SAME AS ABOVE Name	Title	PHONE NUMBER
CONTRACTOR		
SAME AS ABOVE	Title	PHONE NUMBER
CER	RTIFICATION	
<i>I understand that issuance of a Special Discharge Pern</i> <i>Discharge Minimization or Pollution Prevention Permi</i>		ility from being issued a
I understand that I am legally responsible for discharge Terms and Conditions of this Special Discharge Permit		r complying with the
I certify under penalty of law that this document and all in accordance with a system designed to assure that the information submitted. Based on my inquiry of the per- responsible for gathering information, the information accurate, and complete. I am aware that there are sign possibility of fine and imprisonment for knowing violation	e qualified personnel properly gather a son or persons who manage the system submitted is, to the best of my knowled nificant penalties for submitting false in	nd evaluate the , or those persons directly ge and belief, true,
KIRBY FERNANDO	PROJECT MANAGER	_
KI JX	4/1/09	RECEIVED
SIGNATURE (SEE CERTIFICATION REQUIREMENTS ON INSTRUCTIONS)	DATE	APR 0 3 2009

ENVIRONMENTAL SVCS DIV

# SPECIAL DISCHARGE PERMIT



E	PERMIT NUMBER	APPLICANT FORM
	<b>irpose</b> : This information demonstrates the wastewater meets established ch statement that applies and supply required information.	l criteria for a Special Discharge Permit. Check
0	Reasonable and cost effective means of recycling and reuse of the was describing what means were considered, and why they were not implea Trucking the water to designated facility. High cost for retaining	mented.
0	truck. The wastewater is unsuitable for discharge to the storm sewer. Provid Wastewater will be treated on site until levels are acceptab	
0	The wastewater is generated only within the SD-1 wastewater service of Manhole location 52-400-20	area. Provide location.
0	The wastewater meets source criteria. Describe the source and operative Wastewater Source Category from Special Discharge Permit StandardExcavation of contaminated soil to depth of groundwate	Terms and Conditions, Section A, II.
0		1/09 Hours of Discharge: 8
0	Wastewater volume and flow will not exceed 100 gals/minute. Total Discharge Volume: 6,500 gallons	
0	Discharge to the sanitary sewer during a rain even may be prohibited. year rain event (3.16 inches of rainfall in a 24-hour period).	Describe containment capacity during a 10-
Ο,	Water is stored indoors in storage tank The side sewer through which the wastewater is discharged has been i local permits to use manholes or cleanouts for discharge. Attach a site diagram. Show facility location, property lines, waste sewer, and sampling location.	
0	Known and potential pollutants present in the wastewater are character Attach a summarized list of all pollutant concentrations present in certified laboratory analytical report.	
0	Treatment technology or best management practices have been identif discharge limits, and sediment or silt does not enter collection system.	ied that will result in the wastewater meeting
	<ol> <li>For EBMUD metered sources, describe pretreatment or best mathematic the wastewater discharge complies with Ordinance No. 311 was Provide EBMUD account number: <u>50630011</u> (provide Sources)</li> </ol>	stewater discharge limits.
	For unmetered sources, including construction dewatering or gramanagement practices that will be used to ensure pollutant concentrations	oundwater, describe pretreatment or best
	2) Attach a schematic flow diagram of the pretreatment system. The pretreatment system as constructed. Field deviation from the dissystem modifications are approved and the permit revised prior	agram is not allowed, unless pretreatment

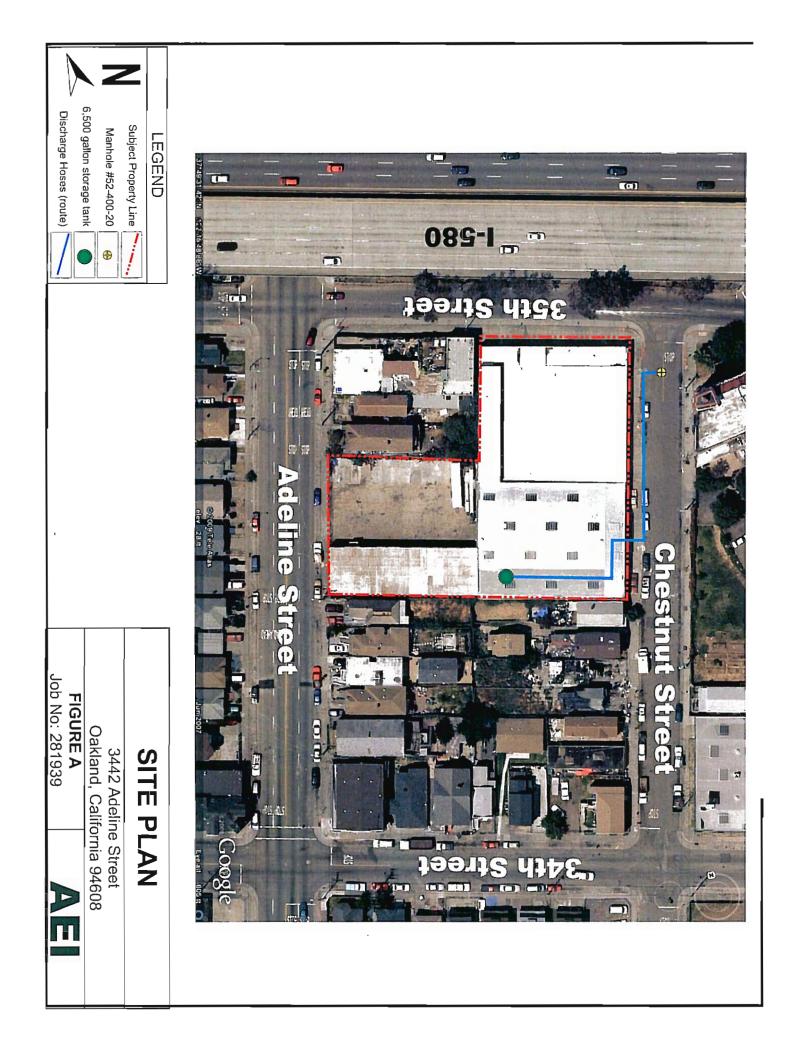
## IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

#### DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.



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	1273日 開催			Villow Pas	s Road					17	12	7		1 1	-11	RN	AR						Г	Ŀ		-				٦		
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	Tele: (925) 746-66 Project #: 281939				<sup>7</sup> ax: ( Projec				_	101				- ŝ	20	1 gcl	811			is l			8270 : 8310		ĺ			1		4	- CE	VER
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	Sampler Signatur		- // /	11 1-		~~								as Gas (602:8028	TPH as Diesel (8015) -Multi-fange w silica gel	Hexarie Extractable Matena w/sil gel EPA 1664	Total Petroleum Hydrocarbons (418-1)		BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (GCD/MO 8015) W			PAH's / PNA's by EPA 625 -			Lead (7240/7421/239.2%010)			RON	MAR	ECE 052	009 25 DIV
	under or Brund	111	SAMP	INC				MA	TRE	v I		eth			- W	Mar	druc		Q2			NO.	EPA	ភ		30.2				E.V.	TAL	-0
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	(Field Point Name)	LUCATION	Date	Time	nta	Ű	노			6 m			<u>_</u>	N.	Di Ci Ci	12	Petr	E C	õ	אותוו	51	25 6	s ? P	12	2 N	124						
					# Containers	Type Containers	Water	Soil	Air Sludae	Other	Ice	HCI IICI	Other	MBTEN & TPH	Has	CABI	otal	HVOC5 EPA 8260	LEX	H	EPA 624 / 8260	EPA 625 ( 8270) - SVOCs	AH	CAM-17 Metals 6020	EUFT 5 Metals	in the second	£CI					
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McCampbell Analytical, Inc. "When Ouslity Counts"

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

## Sample Receipt Checklist

		Dat	e and	Time Received:	04/30/09 1:	43:58 PM
		Che	ecklist	completed and re	eviewed by:	Samantha Arbuckle
		Car	rrier:	<u>Client Drop-In</u>		
n of Cu	stody (C	OC Infor	matio	<u>n</u>		
Yes	V	No 🗆	]			
Yes	$\checkmark$	No 🗆	]			
Yes	$\checkmark$	No 🗌	]			
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Sample	Receipt	Informati	ion			
Yes		No 🗆	]		NA 🗹	
Yes	$\checkmark$	No C	]			
Yes	$\checkmark$	No 🗆	]			
Yes	$\checkmark$	No [				
Yes	$\checkmark$					
rvatio	n and Ho	old Time (I	HT) Ini	formation		
Yes	✓	No 🗌	]			
Coole	er Temp:	5.6°C			NA 🗀	
Yes	$\checkmark$	No 🗆	] No	VOA vials submi	itted	
Yes	$\checkmark$	No 🗌				
Yes		No 🗆	]		NA 🗹	
Yes	$\checkmark$	No [	]			
pe: WE	TICE	)				
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	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes       Image: Constraint of the second of t	Char an of Custody (COC) Infor Yes V No Yes V No Yes V No Yes V No Yes V No Yes V No Sample Receipt Informati Yes V No Yes V No Yes V No Yes V No Yes V No Yes V No Yes No No Yes No No No No No No No No No No	Checklist         Carrier:         Yes       No       No         Yes       No       No       No       No         Yes	Carrier:       Client Drop-In         Yes       No	Checklist completed and reviewed by:         Carrier:       Clent Drop-In         Yes       No         Yes       No

Client contacted:

Date contacted:

Contacted by:

Comments:



"When Ouality Counts"

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

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

EPA Method SW8021B/8015Bm	n Extraction SW5030B						Spiked Sample ID: N/A								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
TPH(btex <sup>f</sup>	N/A	60	N/A	N/A	N/A	98.4	102	3.69	N/A	N/A	70 - 130	20			
MTBE	N/A	10	N/A	N/A	N/A	98	92.8	5.48	N/A	N/A	70 - 130	20			
Benzene	N/A	10	N/A	N/A	N/A	101	98.4	2.34	N/A	N/A	70 - 130	20			
Toluene	N/A	10	N/A	N/A	N/A	98.1	96.3	l.84	N/A	N/A	70 - 130	20			
Ethylbenzene	N/A	10	N/A	N/A	N/A	103	101	2.41	N/A	N/A	70 - 130	20			
Xylenes	N/A	30	N/A	N/A	N/A	103	102	1.21	N/A	N/A	70 - 130	20			
%SS:	N/A	10	N/A	N/A	N/A	101	97	4.32	N/A	N/A	70 - 130	20			

			<u>BATCH 42978 SL</u>	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904717-001A	04/30/09 9:20 AM	05/01/09	05/01/09 7:52 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.

DHS ELAP Certification 1644

QA/QC Officer

When Quality		Web: www.mc	low Pass Road, Pittsburg, campbell.com E-mail: 11 one: 877-252-9262 Fax:	nain@mccampbell.com
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	04/15/09
2500 Camino Diablo, Ste. #200			Date Received:	04/15/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	04/20/09
Wallut Cicck, CA 94397	Client P.O.: #WC081551		Date Completed:	04/17/09

#### WorkOrder: 0904368

April 20, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: #281939; Zimmerman,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

0904368

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	Tele: (925) 746-6	5000		F	Fax: (	(925)	746-	6099					19	2			1				8120 / K336	İ –								
	Project #: 281939	PO: WC08	81551	, F	Projec	t Nai	ne Z	lmme	ernia	n			Ę.	1			læ.	i			1278									
	Project Location:				A								2	SH R'A OFL CH ANAP	Orease 12200 For For Social		80201		VINO.		2			10)						
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	SAMPLE ID (Field Point Name)	LOCATION			Containers	Type Containers			<del>ن</del>				IFMI an	(PH as Dievel (8015)	Principal Petrologum On ac Official Processing Processi	CPA 601 / 8010	HEX ONLY IFPA 6027	CPA 608 / 8080	8 / KURU 	EPA 62578270	PARPS/PNA/S by EPA 6257	CAM-17 Metals	LEFE A Metals	Lead (7240/7421/249		}				
			Date	Time	# Con	Type (	Water	Air	Sludg	lce	HCI HND.	Other	BJEX & F91 as	st 1111	Lotal Pu	 DA 60	BIEX	CPA (IU	EPA 608 / R080 PCB /	EPA 62	PAIPS	CAM-I	5 1.1.1	L'eud (7	kci					
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				}																										

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

	g, CA 94565-1701 52-9262					Work(	Order:	09043	368	C	ClientCo	ode: A	EL				
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	ants io Diablo, Ste. #200 ⊧k, CA_94597	Email: cc: PO: ProjectNo	rflory@aeicon #WC081551 : #281939; Zim				AE 250 Wa	Inut Cr	ultants tino Dia eek, CA	iblo, St A 94597 Insultant		I		e Rece e Print		04/15/ 04/15/	
					ſ		1		Reg	uested	Tests (	See le	jend bo	alow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0904368-001	Poly Tank		Water	4/15/2009 13:30		A											

#### Test Legend:

1	G-MBTEX_W
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4	
9	

5		
10		 

Prepared by: Maria 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.

Clant Name:       AEI Consultants       Date and Time Received       0x/15/09       4:30:30       PM         Project Name:       281939; Zimmerman       Checkis completed and received by:       Maria Vancas         Vanco Order N:       0904368       Maria       Vancas       Carrier		Campbell Analytical, Inc	<u>.</u>		Web: www.ir	illow Pass Road, Pittsburg, CA 94565-1701 occampbell.com E-mail: main@mccumpbell.com hone: 877-252-9262 Fax: 925-252-9269
Project Name:       #281939; ZImmerman       Checklist completed and reviewed by:       Maria Venegas         WorkOrder N':       9904368       Matix       Water       Carrier:       Client Drop-In         Chain of custody present?       Yes       Ø       No       Image: Completed and reviewed by:       Maria Venegas         Chain of custody signed when relinquished and received?       Yes       No       Image: Completed and reviewed by:       Image: Comple		Sa	mple	Receij	ot Checkli	st
WorkOrder N*:       0 904368       Matrix       Water       Carrier:       Clent Drop-In         Chain of custody present?       Yes       No         Chain of custody signed when relinquished and received?       Yes       No	Client Name:	AEI Consultants			Date a	and Time Received: 04/15/09 4:30:30 PM
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         Chain of custody agrees with sample labels?       Yes       No         Sample Ibs 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       No         Stapping container/cooler?       Yes       No       NA         Custody seals intact on shipping container/cooler?       Yes       No       NA         Sample containers/bottles?       Yes       No       NA       Yes         Supple containers/bottles?       Yes       No       NA       Yes         Suple containers/bottles?       Yes       No       No       NA       Yes         Suple containers intact?       Yes       No	Project Name:	#281939; Zimmerman			Check	list completed and reviewed by: Maria Venegas
Chain of custody present?       Yes       No         Chain of custody signed when relinquished and received?       Yes       V       No         Chain of custody agrees with sample labels?       Yes       V       No         Sample IDs noted by Client on COC?       Yes       V       No         Date and Time of collection noted by Client on COC?       Yes       V       No         Sampler's name noted on COC?       Yes       V       No         Custody seals intact on shipping container/cooler?       Yes       No       No         Shipping container/cooler in good condition?       Yes       V       No       No         Sample sin proper containers/bottles?       Yes       V       No       No       Yes         Sufficient sample volume for indicated test?       Yes       V       No       Yes       No       Yes         All samples received within holding time?       Yes       V       No       Yes       No       Yes       No       Yes         Year - VOA vials have zero headspace / no bubbles?       Yes       Ves       No       No       Yes       No       Yes       No       Yes       No       Yes       No       Yes       Yes       No       Yes       Yes       No	WorkOrder N°:	0904368 Matrix Water			Carrie	r: <u>Client Drop-In</u>
Chaln of custody signed when relinquished and received?       Yes       No         Chaln 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       No         Sampler's name noted on COC?       Yes       No       No         Custody seals intact on shipping container/cooler?       Yes       No       No         Samples in proper containers/cooler?       Yes       No       No       No         Sample container/cooler in good condition?       Yes       No       No       Na       Mo         Sample containers intact?       Yes       Yes       No       No       Image: Sample sin proper containers indict?       Yes       No       Image: Sample sin proper containers?       Yes       No       Image: Sample sin proper containers indict?       Yes <t< td=""><td></td><td>Chain</td><td>of Cu</td><td>stody (C</td><td>OC) Informa</td><td>ition</td></t<>		Chain	of Cu	stody (C	OC) Informa	ition
Chain of custody agrees with sample labels?       Yes       Yes       No         Sample IDs noted by Client on COC?       Yes       Yes       No         Date and Time of collection noted by Client on COC?       Yes       Yes       No         Sampler's name noted on COC?       Yes       Yes       No       Image: Sample Yes         Custody seals intact on shipping container/cooler?       Yes       No       NA       Image: Sample Yes         Shipping container/cooler in good condition?       Yes       Yes       No       Image: Sample Yes       No         Sample containers intact?       Yes       Yes       No       Image: Sample Yes       No       Image: Sample Yes         Sufficient sample volume for indicated test?       Yes       Yes       No       Image: Sample Yes       No       Image: Sample Yes       No         All samples recelved within holding time?       Yes       Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No       Image: Sample Yes       No	Chain of custody	present?	Yes	$\checkmark$	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         Sampler's name noted on COC?       Yes       No         Custody seats intact on shipping container/cooler?       Yes       No         Shipping container/cooler in good condition?       Yes       No       NA         Sample to proper containers/bottles?       Yes       No       No         Sample containers intact?       Yes       No       No         Sufficient sample volume for indicated test?       Yes       No          All samples recelved within holding time?       Yes       No       No          Container/Temp Blank temperature       Cooler Temp:       9.2°C       NA          Sample labels checked for correct preservation?       Yes       No       No       No       No         Sample labels checked for correct preservation?       Yes       No       No       No       NA          Sample labels checked for correct preservation?       Yes       No       No       No       NA          Sample labels checked for correct preservation?       Yes       No       No	Chain of custody	v signed when relinquished and received?	Yes	✓		
Date and Time of collection noted by Client on COC? Yes Yes No   Sampler's name noted on COC? Yes No No   Custody seals intact on shipping container/cooler? Yes No NA   Shipping container/cooler in good condition? Yes No NA   Samples in proper containers/bottles? Yes No No   Sample containers intact? Yes No No   Sufficient sample volume for indicated test? Yes No No   All samples recelved within holding time? Yes No No   Container/Temp Blank temperature Cooler Temp: 9.2°C NA   Vater - VOA vials have zero headspace / no bubbles? Yes No No   Sample labels checked for correct preservation? Yes No No   TTLC Metal - pH acceptable upon receipt (pH<2)?	Chain of custody	agrees with sample labels?	Yes	$\checkmark$	No 🗌	
Sampler's name noted on COC? Yes No     Subplay container, cooler? Yes No     Custody seals intact on shipping container, cooler? Yes No     Samples in proper containers, bottles? Yes No     Sample containers intact? Yes No     Samples received within holding time? Yes No     Coolainer/Temp Blank temperature Yes No     Sample labels checked for correct preservation? Yes No     Yes Yes No     Sample labels checked for correct preservation? Yes No     Sample labels checked for correct preservation? Yes No     Sample labels checked for correct preservation? Yes No     Sample labels checked for correct preservation? Yes No     Sample Received on toe? Yes No     Yes No No     Sample Received on toe? Yes	Sample IDs noted	d by Client on COC?	Yes	V	No 🗖	
Subjection on shipping container/cooler?       Yes       No       No       NA       NA         Shipping container/cooler in good condition?       Yes       Ves       No       No       NA       Ves         Samples in proper containers/bottles?       Yes       Ves       No       No       No       Na       Ves         Sufficient sample volume for indicated test?       Yes       Ves       No       No       No       No       Na	Date and Time of	f collection noted by Client on COC?	Yes	$\checkmark$	No 🗀	
Custody seals intact on shipping container/cooler? Yes No NA NA   Shipping container/cooler in good condition? Yes No No No   Samples in proper containers/bottles? Yes No No No   Sample containers intact? Yes No No No   Sufficient sample volume for indicated test? Yes No No No   Samples received within holding time? Yes No No No   Container/Temp Blank temperature Cooler Temp: 9.2°C NA No   Water - VOA vials have zero headspace / no bubbles? Yes No No No   Sample labels checked for correct preservation? Yes No No No   ThLC Metal - pH acceptable upon receipt (pH<2)?	Sampler's name	noted on COC?	Yes		No 🗔	
Custody seals intact on shipping container/cooler? Yes No NA NA   Shipping container/cooler in good condition? Yes No No No   Samples in proper containers/bottles? Yes No No No   Sample containers intact? Yes No No No   Sufficient sample volume for indicated test? Yes No No No   Samples received within holding time? Yes No No No   Container/Temp Blank temperature Cooler Temp: 9.2°C NA No   Water - VOA vials have zero headspace / no bubbles? Yes No No No   Sample labels checked for correct preservation? Yes No No No   TTLC Metal - pH acceptable upon receipt (pH<2)?		S	ample	Receipt	Information	
Samples in proper containers/bottles? Yes   Sample containers intact? Yes   Sufficient sample volume for indicated test? Yes   Yes No    Samples received within holding time?  All samples received within holding time?  All samples received within holding time?  Yes   Yes No    All samples received within holding time?  Yes   Yes No    All samples received within holding time?  Yes   Yes No    All samples received within holding time?  Yes   Yes No    No No VOA vials submitted  Sample labels checked for correct preservation?  Yes   Yes No   TTLC Metal - pH acceptable upon receipt (pH<2)? Yes	Custody seals in	_				•
Sample containers intact? Yes No   Sufficient sample volume for indicated test? Yes No     Sample Preservation? Yes No     All samples received within holding time? Yes No     Container/Temp Blank temperature Cooler Temp: 9.2°C   Vater - VOA vials have zero headspace / no bubbles? Yes No   Sample labels checked for correct preservation? Yes No   TTLC Metal - pH acceptable upon receipt (pH<2)?	Shipping contain	er/cooler in good condition?	Yes	$\checkmark$	No 🗔	
Yes Yes No     Sample Preseration Yes     All samples received within holding time? Yes     Yes No     Container/Temp Blank temperature Cooler   Yes Yes     Yes No     No No     Yes Yes     No No     Yes Yes     No No     Yes Yes     No No     Yes Yes	Samples in prop	er containers/bottles?	Yes	$\checkmark$	No 🗆	
Sample Preservation and Hold Time (HT) Information         All samples received within holding time?       Yes       V       No       No         Container/Temp Blank temperature       Cooler Temp:       9.2°C       NA       I         Water - VOA vials have zero headspace / no bubbles?       Yes       Ves       No       No VOA vials submitted       I         Sample labels checked for correct preservation?       Yes       Ves       No       No       NA       Ves         TTLC Metal - pH acceptable upon receipt (pH<2)?	Sample containe	ers intact?	Yes	V	No 🗆	
All samples received within holding time?       Yes       No       No         Container/Temp Blank temperature       Cooler Temp:       9.2°C       NA         Water - VOA vials have zero headspace / no bubbles?       Yes       V       No       No VOA vials submitted         Sample labels checked for correct preservation?       Yes       V       No       Na V         TTLC Metal - pH acceptable upon receipt (pH<2)?	Sufficient sample	e volume for indicated test?	Yes	$\checkmark$	No 🗌	
All samples received within holding time?       Yes       ✓       No          Container/Temp Blank temperature       Cooler Temp:       9.2 °C       NA          Water - VOA vials have zero headspace / no bubbles?       Yes       ✓       No       No VOA vials submitted          Sample labels checked for correct preservation?       Yes       ✓       No       NA       ✓         TTLC Metal - pH acceptable upon receipt (pH<2)?		Sample Prese	rvatior	n and Ho	old Time (HT	) information
Container/Temp Blank temperature       Cooler Temp:       9.2°C       NA         Water - VOA vials have zero headspace / no bubbles?       Yes       Vaster       No       No VOA vials submitted         Sample labels checked for correct preservation?       Yes       Vaster       No       No       Na         TTLC Metal - pH acceptable upon receipt (pH<2)?	All samples rece				_	
Water - VOA vials have zero headspace / no bubbles?       Yes       V       No       No VOA vials submitted         Sample labels checked for correct preservation?       Yes       V       No       No         TTLC Metal - pH acceptable upon receipt (pH<2)?						NA 🗆
Sample labels checked for correct preservation?       Yes       No       No         TTLC Metal - pH acceptable upon receipt (pH<2)?					No 🗆	No VOA vials submitted $\Box$
TTLC Metal - pH acceptable upon receipt (pH<2)?		·	Yes	$\checkmark$	No 🗌	
Samples Received on Ice? Yes 🗹 No 🗆			Yes			NA 🗹
			Yes	$\checkmark$	No 🗔	
(Ice Type: WET ICE )	-	(Ісе Тур	e: WE	TICE	)	
• NOTE: If the "No" box is checked, see comments below.	• NOTE: If the "I	No" box is checked, see comments below.				
	=====					

Client contacted:

Date contacted:

Contacted by:

Comments:

ct ID: #281939; act: Robert Flo #WC081551		Date R	ampled: 04/1 eceived: 04/1			
	ry	_	eceived: 04/1	5/09		
	ry	Data F		-		
#WC081551		Date E	xtracted: 04/1	6/09		
		Date A	nalyzed 04/1	6/09		
			EX and MTBE		ler: 090	4368
MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
5.7	30	1.5	0.60	11	1	106
					_	
				_		
5.0	0.5	0.5	0.5	0.5		g/L
	Analytical methods S MTBE 5.7	MTBE         Benzene           5.7         30	MTBE         Benzene         Toluene           5.7         30         1.5	MTBE         Benzene         Toluene         Ethylbenzene           5.7         30         1.5         0.60 <td>MTBE         Benzene         Toluene         Ethylbenzene         Xylenes           5.7         30         1.5         0.60         11  &lt;</td> <td>Mark Order:         090           MTBE         Benzene         Toluene         Ethylbenzene         Xylenes         DF           5.7         30         1.5         0.60         11         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1         1           1</td>	MTBE         Benzene         Toluene         Ethylbenzene         Xylenes           5.7         30         1.5         0.60         11  <	Mark Order:         090           MTBE         Benzene         Toluene         Ethylbenzene         Xylenes         DF           5.7         30         1.5         0.60         11         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1         1           1

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant





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

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matri	x: Water			Batch	ID: 42663	WorkOrder 0904368					
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					S	piked San	ple ID	: 0904375-0	002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criterla (%)	)		
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btexf	ND	60	106	104	2.33	106	110	3.61	70 - 130	20	70 - 130	20		
МТВЕ	ND	10	110	105	4 4 3	117	112	4.37	70 - 130	20	70 - 130	20		
Benzene	ND	10	83.8	90.2	7.35	92.2	91.6	0.661	70 - 130	20	70 - 130	20		
Toluene	ND	10	89.9	92.6	2.98	95	94	1.13	70 - 130	20	70 - 130	20		
Ethylbenzene	ND	10	93.4	93.6	0.262	94.5	93.4	1.25	70 - 130	20	70 - 130	20		
Xylenes	ND	30	105	105	0	106	105	0.991	70 - 130	20	70 - 130	20		
%SS:	93	10	103	103	0	103	104	1.43	70 - 130	20	70 - 130	20		
All target compounds in the Method E NONE	llank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:					

#### BATCH 42663 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904368-001A	04/15/09 1:30 PN	1 04/16/09	04/16/09 5:57 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.

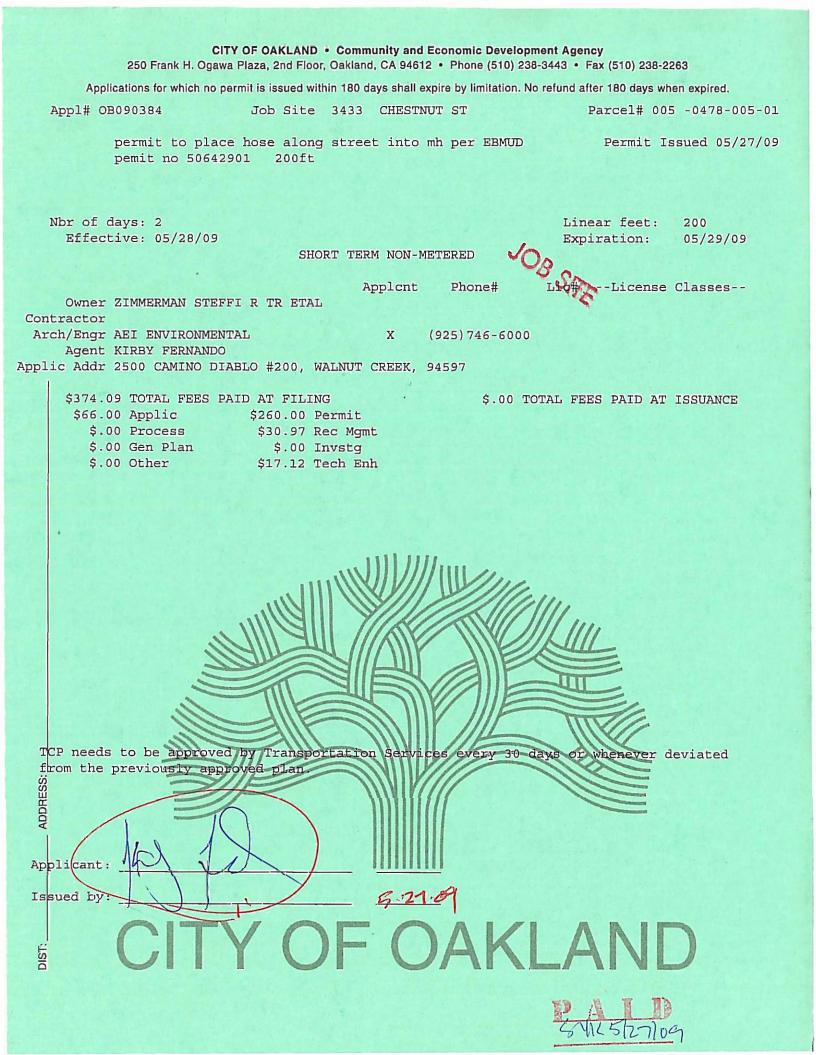
£ TPH(btex) = sum of BTEX areas from the FID.

# 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.

A QA/QC Officer



# ALL WASTEWATER DISCHARGE THE SPECIAL DISCHARGE MUST COMPLY WITH EBMUD

**PERMIT NO. 50642901** 

McCampbell An "When Ouality		Web: www.mco	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	03/11/09
2500 Camino Diablo, Ste. #200			Date Received:	03/11/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/12/09
Wallat Creek, Cri 91897	Client P.O.: #WC081414		Date Completed:	03/12/09

#### WorkOrder: 0903276

March 12, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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Telephoi	10. (925) 79	0-1020				ax.	(94		90-	102	4			E	DF	Req	uire	ed?	Ì	X	Yes				No		_							
Report To: Raber			E	Bill To	: San	me									_	_		_	Ana	lysi	is R	equ	est	_						Oth	ter		Сош	ments
Company: AEI C	Contraction of the owner of the owner of the					_				_			-	-	4	(j)										1			3					
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and the second se	ut Creek, C	A 94597			laik: t				nsul	tan	ts.co	m		SUIS)/M/CBE	13	ERF	-			REBS				EPA 625 / 8270 / 8310			1			4	2			
Tele: (925) 746-6				ax: (									_	15)/0	GEL	20 8	18.1			22	1			10					2	10			1	
Project #: 281939				rajec	t Nai	me	Zin	ime	rma	n		_		0.9		(55	s (4		6	+			1	827					49.	3				
<b>Project Location:</b>	3442 Ad	eline, Oa	aland, C	<u> </u>			_		_	_			_	8	SILICA	case	bon	1	802	de	F			25/			2			2			tuto	1
Sampler Signatur	e: 14	/	1.1	-	-	_	_							8			0Car		10	Hel	õ			A 6			5/9		d	2				is su
	M	SAMP	LING	rs .	Ders	L	MA	TR	IX			SER	OD	- 0	(8015)	n Oil &	n Hydr	. 0	(EPA 6	o Peuticides	0 PCB	0	0		Is		21/239.		i.Fe	ONO				245.1
SAMPLE ID (Field Point Name)	LOCATION	Date .	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	Ice	HCI	Other	BTEX & TPH as	Dies	Total Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EP.A 608) 8080	EP. 60%/ 8080 PCB's ONLY	EPA6247 8260	EPA 625 28270	PAH's / PNA's by	CAM-17 Metuls	LUFT 5 Metuds	Lead (7240/7421/239.2/6010)	RCI	ASCHO, C	ilevet with	Phenolics	pH. T.as		
Purge Tank		3/11/09	9:30	10	VIL	x			•	+	X)	<	1	X	X			-		X	-	X	X					-	X	X	X	F		
Carlos and Sta	1.	H-11- 1	1 1-	6	-				-	1	1		1		1												-		1	-	-	-		
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1

1534 Willow Pass Rd CA 04565 1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 0903276	6 Client(	Code: AEL		
		WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	I to:		Rec	uested TAT:	1 day
Robert Flory	Email:	rflory@aeiconsul	ltants.com		Denise Mock	cel			
AEI Consultants	CC:				AEI Consulta	ints			
2500 Camino Diablo, Ste. #200	PO:	#WC081414			2500 Camino	Diablo, Ste. #20	$b_0 Dat$	te Received:	03/11/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	erman		Walnut Creel	k, CA 94597	Da	te Printed:	03/11/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@ae	eiconsultants.com	1		

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
0903276-001	Purge Tank	Water	3/11/2009 9:30	F	G	D	С	Е	Α	В	В	D	В	В	D

#### Test Legend:

1	1664A_SG_W
6	G-MBTEX_W
11	TPH(D)WSG_W

2	1664A_W
7	HG_W
12	TSS_W

3	608_W
8	METALS_W

4	624_W
9	PH_W

5	625_W
10	PHENOLICS_W

Prepared by: Melissa Valles

#### **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.



"When Ouality Counts"

# Sample Receipt Checklist

Client Name:	AEI Consultants				Date	and T	ime Received:	3/11/09 6:3	32:50 PM
Project Name:	#281939; Zimmer	man			Chec	klist d	completed and re	eviewed by:	Melissa Valles
WorkOrder N°:	0903276	Matrix <u>Water</u>			Carrie	er:	Client Drop-In		
		Chai	in of Cu	stody (C	OC) Inform	ation	ı		
Chain of custody	present?		Yes		No 🗆		-		
Chain of custody	signed when relinquis	shed and received?	Yes	$\checkmark$	No 🗆				
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌				
Sample IDs noted	by Client on COC?		Yes	$\checkmark$	No 🗆				
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆				
Sampler's name r	noted on COC?		Yes		No 🗆				
			Sample	Receipt	Informatio	n			
Custody seals in	tact on shipping contai		Yes		No 🗆			NA 🔽	
-	er/cooler in good cond		Yes	$\checkmark$	No 🗆				
	er containers/bottles?		Yes	✓	No 🗆				
Sample containe			Yes	✓	No 🗆				
Sufficient sample	volume for indicated	test?	Yes		No 🗌				
		Sample Pres	ervatio	n and Ho	d Time (HT	[) Inf	ormation		
	ved within holding time	-	Yes		<u>No</u> □	<u>,                                    </u>	ormation		
	-	5 !		er Temp:	4.6°C				
	Blank temperature	aa / na hubblaa?	Yes		4.0 C	No	VOA vials submi	_	
	ls have zero headspace		Yes		No 🗌	NO			
	acceptable upon recei		Yes		No 🗹			NA 🗆	
Samples Receive		pr (pr · · -) ·	Yes		No 🗆				
		(Ice Ty	pe: WE	TICE	)				
* NOTE: If the "N	lo" box is checked, se	e comments below							
Client contacted:		Date conta	cted:				Contacted	by:	

Comments: Metals was received unpreserved. Sample had to be preserved and sit or 16hrs prior to extracting and analyzing.

	CCampbell Analyti "When Ouality Counts"	<u>cal, Inc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consulta	ants	Client Project ID:	#281939; Zimmerman	Date Sampled: 03/11/	09				
2500 Camino	Diablo, Ste. #200			Date Received: 03/11/	09				
		Client Contact: F	Date Extracted: 03/11/	09					
Walnut Creek	, CA 94597	Client P.O.: #WC	081414	Date Analyzed 03/12/	09				
			ial with Silica Gel Clean	-		227.5			
Extraction method			methods E1664A	Work Or		03276			
Lab ID	Client ID	Matrix	HEMSG	ľ	DF	% SS			
0903276-001F	Purge Tank	W	ND		1	N/A			

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

# surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

	CCampbell Analyti	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consulta	ints	Client Project ID:	#281939; Zimmerman	Date Sampled: 03/11/	/09				
2500 Camino	Diablo, Ste. #200			Date Received: 03/11	/09				
		Client Contact: R	obert Flory	Date Extracted: 03/11/	09				
Walnut Creek	, CA 94597	Client P.O.: #WC	081414	Date Analyzed 03/12	/09				
			l without Silica Gel Clea	-					
Extraction method			methods E1664A	Work Or		03276			
Lab ID	Client ID	Matrix	HEM		DF	% SS			
0903276-001G	Purge Tank	w	ND		1	N/A			

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

# surrogate diluted out of range

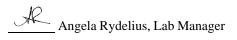
Angela Rydelius, Lab Manager

McCampbell Ar		<u>l, Inc.</u>		Web: www.mccamp	Pass Road, Pittsburg, CA bell.com E-mail: main 77-252-9262 Fax: 925	@mccampbell.com	1	
AEI Consultants	C	lient Project ID:	#281939;	Zimmerman	Date Sampled:	03/11/09		
			Date Received:	03/11/09				
2500 Camino Diablo, Ste. #200	C	lient Contact: Ro	obert Flor	v	Date Extracted:	03/11/09		
Walnut Creek, CA 94597		lient P.O.: #WC0		5	Date Analyzed:	03/11/09		
					-	03/11/07		
Or	ganochlori	ne Pesticides (60	)8 Basic	Target List) a	nd PCBs*			
Extraction Method: E608	1	Analytical Method	: E608			Work Order: 09	903276	
Lab ID	0903276-0	001D				Reporting	Limit for	
Client ID	Purge T	ank				DF		
Matrix	W					S	W	
DF	1					5	**	
Compound			Concen	tration		µg/kg	µg/L	
Aldrin	ND					NA	0.005	
a-BHC	ND					NA	0.01	
b-BHC	ND					NA	0.005	
d-BHC	ND					NA	0.005	
g-BHC	ND					NA	0.02	
Chlordane (Technical)	ND					NA	0.1	
a-Chlordane	ND					NA	0.05	
g-Chlordane	ND					NA	0.05	
p,p-DDD	ND					NA	0.01	
p,p-DDE	ND					NA	0.01	
p,p-DDT	ND					NA	0.01	
Dieldrin	ND					NA	0.01	
Endosulfan I	ND					NA	0.02	
Endosulfan II	ND					NA	0.01	
Endosulfan sulfate	ND					NA	0.05	
Endrin	ND					NA	0.01	
Endrin aldehyde	ND					NA	0.05	
Heptachlor	ND					NA	0.01	
Heptachlor epoxide	ND					NA	0.01	
Hexachlorobenzene	ND					NA	0.5	
Hexachlorocyclopentadiene	ND					NA	1.0	
Toxaphene	ND					NA	0.5	
Aroclor1016	ND					NA	0.5	
Aroclor1221	ND					NA	0.5	
Aroclor1232	ND					NA	0.5	
Aroclor1242	ND					NA	0.5	
Aroclor1248	ND					NA	0.5	
Aroclor1254	ND					NA	0.5	
Aroclor1260	ND					NA	0.5	
PCBs, total	ND		<u> </u>	(0())	1	NA	0.5	
0/ 55.	0.4	Surrogate F	<u>kecoverie</u>	s (%)				
%SS:	94	I	l			l		
Comments						<u> </u>		

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

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

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



<u>McCampbell</u>	Analyti	ical,	Inc.		1534 Willow I Web: www.mccamp		Pittsburg, CA 94565-17 E-mail: main@mccamp			
"When	Dualitv Counts"	r			Telephone: 8	877-252-92	62 Fax: 925-252-9269	Ð		
AEI Consultants		Clier	nt Proje	ect ID:	D: #281939; Zimmerman Date Sampled: 03/11/09					
2500 Camino Diablo, Ste. #200	,	I					Date Received: 03/11/09			
2500 Camino Diabio, Ste. #200	,	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted: 03/12/0	19		
Walnut Creek, CA 94597		Clier	nt P.O.:	#WC0	81414	Date A	Analyzed 03/12/0	9		
	Volatile Org	anics	by P&	T and (	GC/MS (624 Basic Tar	get List)	*			
Extraction Method: E624			Anal	ytical Meth	nod: E624		Work Or	der: 090	03276	
Lab ID					0903276-001C					
Client ID					Purge Tank					
Matrix	Constant	*	DE	Reporting	Water		Comparison *	DE	Reportin	
Compound	Concentrat	ion *	DF	Limit	Compound		Concentration *	DF	Limit	
Benzene		650	20	0.5	Bromodichloromethane		ND<10	20	0.5	
Bromoform	ND<10	)	20	0.5	Bromomethane		ND<10	20	0.5	
Carbon tetrachloride	ND<10	ND<10		0.5	Chlorobenzene	orobenzene		20	0.5	
Chloroethane	ND<10	)	20	0.5	Chloroform	ND<10	20	0.5		
Chloromethane	ND<10	)	20	0.5	Dibromochloromethane		ND<10	20	0.5	
1,2-Dichlorobenzene	ND<10		20	0.5	1,3-Dichlorobenzene		ND<10	20	0.5	
1,4-Dichlorobenzene	ND<10	-	20	0.5	1,1-Dichloroethane		ND<10	20	0.5	
1,2-Dichloroethane (1,2-DCA)	ND<10		20	0.5	1,1-Dichloroethene		ND<10	20	0.5	
cis-1,2-Dichloroethene	ND<10	-	20	0.5	trans-1,2-Dichloroethene	•	ND<10	20	0.5	
1,2-Dichloropropane	ND<10		20	0.5	cis-1,3-Dichloropropene		ND<10	20	0.5	
trans-1,3-Dichloropropene	ND<10		20	0.5	Ethylbenzene		20	20	0.5	
Freon 113	ND<200	0	20	10	Hexachlorobutadiene		ND<10	20	0.5	
Hexachloroethane	ND<10		20	0.5	Methyl-t-butyl ether (M7	ΓBE)	ND<10	20	0.5	
Methylene chloride	ND<10	)	20	0.5	Naphthalene		10	20	0.5	
Styrene	ND<10	)	20	0.5	1,1,2,2-Tetrachloroethar	ne	ND<10	20	0.5	
Tetrachloroethene	ND<10	)	20	0.5	Toluene		30	20	0.5	
1,2,4-Trichlorobenzene	ND<10		20	0.5	1,1,1-Trichloroethane		ND<10	20	0.5	
1,1,2-Trichloroethane	ND<10		20	0.5	Trichloroethene		ND<10	20	0.5	
Trichlorofluoromethane	ND<10		20	0.5	Vinyl chloride		ND<10	20	0.5	
Xylenes		180	20	0.5						
			Surr	ogate Re	coveries (%)					
%SS1:		79			%SS2: 102					
%SS3:		98								
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  $\mu$ g/wipe.

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

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

WcCampbell	Analyti Duality Counts"	<u>cal,</u>	Inc.		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consultants		Clier	nt Proje	ct ID:	#281939; Zimmerman	Date Sa	umpled: 03/11/0	9			
			5		· · ·	Date Received: 03/11/09					
2500 Camino Diablo, Ste. #200						Date K	Received: 03/11/09				
		Clie	nt Cont	act: Ro	obert Flory	Date Ex	stracted: 03/11/0	9			
Walnut Creek, CA 94597		Clier	nt P.O.:	#WC0	081414	Date A	nalyzed 03/12/0	9			
	~						•				
	Semi-Vola	tile ()	rganic	s by G	C/MS (625 Basic Target	List)*					
Extraction Method: E625			Analy	tical Met	hod: E625		Work Or	der: 090	3276		
Lab ID					0903276-001E						
Client ID					Purge Tank						
Matrix			-		Water				-		
Compound	Concentrat	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Report Lim		
Acenaphthene	ND<20		20	1.0	Acenaphthylene	ND<20	20	1.0			
Anthracene	ND<20		20	1.0	Benzidine	ND<100	20	5.0			
Benzo(a)anthracene	ND<20		20 1.0 Benzo(b)fluoranthene				ND<20	20	1.0		
Benzo(k)fluoranthene	ND<20	ND<20 20 1.0 Benzo(g,h,i)pervlene					ND<20	20	1.0		
Benzo(a)pyrene	ND<20	ND<20 20 1.0 Bis (2-chloroethoxy) Methane					ND<20	20	1.0		
Bis (2-chloroethyl) Ether	ND<20	ND<20 20 1.0 Bis (2-chloroisopropyl) Ether				ND<20	20	1.			
Bis (2-ethylhexyl) Adipate	ND<20		20	1.0	Bis (2-ethylhexyl) Phthala	s (2-ethylhexyl) Phthalate			5.0		
4-Bromophenyl Phenyl Ether	ND<20		20	1.0	Butylbenzyl Phthalate	ND<20	20	1.			
4-Chloro-3-methylphenol	ND<20	ND<20		1.0	2-Chloronaphthalene		ND<20	20	1.0		
2-Chlorophenol	ND<20		20	1.0	4-Chlorophenyl Phenyl Et	her	ND<20	20	1.		
Chrysene	ND<20		20	1.0	Dibenzo(a,h)anthracene		ND<20	20	1.		
Di-n-butyl Phthalate	ND<200	)	20	10	1,2-Dichlorobenzene		ND<20	20	1.0		
1,3-Dichlorobenzene	ND<20		20	1.0	1,4-Dichlorobenzene		ND<20	20	1.0		
3,3-Dichlorobenzidine	ND<40		20	2.0	2,4-Dichlorophenol		ND<20	20	1.0		
Diethyl Phthalate	ND<20		20	1.0	2,4-Dimethylphenol		ND<20	20	1.0		
Dimethyl Phthalate	ND<20		20	1.0	4,6-Dinitro-2-methylphen	ol	ND<100	20	5.0		
2,4-Dinitrophenol	ND<100	)	20	5.0	2,4-Dinitrotoluene		ND<20	20	1.0		
2,6-Dinitrotoluene	ND<20		20	1.0	Di-n-octyl Phthalate		ND<20	20	1.0		
1,2-Diphenylhydrazine	ND<20		20	1.0	Fluoranthene		ND<20	20	1.0		
Fluorene	ND<20		20	1.0	Hexachlorobenzene		ND<20	20	1.0		
Hexachlorobutadiene	ND<20		20	1.0	Hexachlorocyclopentadien	e	ND<100	20	5.0		
Hexachloroethane	ND<20		20	1.0	Indeno (1,2,3-cd) pyrene		ND<20	20	1.0		
Isophorone	ND<20		20	1.0	3 &/or 4-Methylphenol (m	,p-Cres	ND<20	20	1.0		
Naphthalene	ND<20		20	1.0	Nitrobenzene		ND<20	20	1.0		
2-Nitrophenol	ND<100	)	20	5.0	4-Nitrophenol		ND<100	20	5.0		
N-Nitrosodimethylamine	ND<100	)	20	5.0	N-Nitrosodiphenylamine		ND<20	20	1.0		
N-Nitrosodi-n-propylamine	ND<20		20	1.0	Pentachlorophenol		ND<100	20	5.0		
Phenanthrene	ND<20		20	1.0	Phenol		110	20	1.0		
Pyrene	ND<20		20	1.0	1,2,4-Trichlorobenzene		ND<20	20	1.0		
2,4,6-Trichlorophenol	ND<20		20	1.0							
			Surro	gate Re	coveries (%)						
%SS1:		62			%SS2:	63					
%SS3:		88			%SS4:	100					
%SS5:		105	5		%SS6:		105	5			
Comments:											

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

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

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

	McCampbe	ell Analy en Ouality Coun			Web: www.mcca	mpbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com		
AEI Coi	nsultants		Client Project ID	): #281939;	Zimmerman	Date Sa	ampled: 03/1	11/09		
2500 Ca	mino Diablo Sta #7	00				Date R	eceived: 03/1	11/09		
2300 Ca	mino Diablo, Ste. #2	.00	Client Contact:	Robert Flor	у	Date E	xtracted: 03/1	2/09		
Walnut (	Creek, CA 94597		Client P.O.: #W	/C081414		Date A	nalyzed 03/1	12/09		
Extraction m	Gas	oline Range	e ( <b>C6-C12</b> ) Volatile H Analyt		<b>15 as Gasolin</b> W8021B/8015Bn		EX and MTBI		ler: 090	03276
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Purge Tank	w	3500,d1	ND<90	750	24	15	180	1	91
										<u> </u>
									<u> </u>	
	ng Limit for DF =1; ns not detected at or	W	50	5	0.5	0.5	0.5	0.5		g/L
	the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg	g/Kg

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant



	CCampbell Analyti	<u>cal, Inc.</u>		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consulta	ants	Client Project ID	: #2	#281939; Zimmerman Date Sampled: 03/11/09						
2500 Camino	Diablo, Ste. #200					Date Received: 03/11	/09			
	,	Client Contact:	Rol	bert Flory		Date Extracted: 03/11	/09			
Walnut Creek	, CA 94597	Client P.O.: #W	C08	31414		Date Analyzed 03/12	/09			
Extraction method	E245.1		-	<b>r Metals*</b> thods E245.1		Work O	rder: 090	03276		
Lab ID	Client ID	Matri	ix	Extraction Type		Mercury	DF	% SS		
0903276-001B	Purge Tank	W		TOTAL		ND	1	0		

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

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

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



WcCampbell An "When Ouality"		<u>nc.</u>		Web: www.mccamp	Pass Road, Pittsburg, CA obell.com E-mail: main 877-252-9262 Fax: 92	@mccampbell.c	com	
AEI Consultants	Client P	roject ID:	#28193	9; Zimmerman	Date Sampled:	03/11/09		
2500 Carries Diable Sta #200					Date Received: 03/11/09			
2500 Camino Diablo, Ste. #200	Client C	Contact: R	obert Fl	ory	Date Extracted:	03/11/09		
Walnut Creek, CA 94597	Client P	.O.: #WC0	081414		Date Analyzed	03/12/09		
Extraction Method: E200.7	An	Met alytical Method	als* 1: E200.7		<u>.</u>	Work Order:	0903276	
Lab ID	0903276-001B							
Client ID	Purge Tank					Reporting		
Matrix Water							=1	
DF	1							
Extraction Type	TOTAL					S	W	
Compound			Conce	entration	-	µg/kg	µg/L	
Arsenic	ND					NA	20	
Cadmium	ND					NA	5.0	
Chromium	ND					NA	5.0	
Copper	7.1					NA	5.0	
Iron	930					NA	50	
Lead	ND					NA	20	
Nickel	10					NA	5.0	
Silver	ND					NA	5.0	
Zinc	ND					NA	20	
	Su	rrogate R	ecoveri	es (%)		1		
%SS:	103							
Comments								

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

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

TOTAL = acid digestion. WET = Waste Extraction Test (STLC). DI WET = Waste Extraction Test using de-ionized water.

<u> </u>	Campbell Analyti "When Ouality Counts"	cal, Inc.	•	Web: www.mccamp	Pass Road, Pittsburg, CA 94565-1701 obell.com E-mail: main@mccampbell.co 377-252-9262 Fax: 925-252-9269	m
AEI Consultants		Client Proje	ect ID: #28	31939; Zimmerman	Date Sampled: 03/11/09	
2500 Camino Dia	ablo Ste #200	Date Received: 03/11/09				
2500 Callino Die	1010, Ste. 11200	Client Con	tact: Robe	ert Flory	Date Extracted: 03/11/09	
Walnut Creek, C.	A 94597	Client P.O.	: #WC081	414	Date Analyzed 03/11/09	
Analytical Method: S	M4500H+B		pН		Work Order:	0903276
Lab ID	Client ID		Matrix		pH	DF
0903276-001D	Purge Tank		W	7	.37 @ 19.0°C	1

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C	
	S	NA	

\* EPA method 9040; pH =  $-\log(aH+)$  @ \_°C; ± 0.05 units

	Campbell Analyti "When Ouality Counts"	cal, Inc	<u>.</u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565-1701 bbell.com E-mail: main@mccampbell.co 877-252-9262 Fax: 925-252-9269	m
AEI Consultants		Client Pro	ject ID: #2	281939; Zimmerman	Date Sampled: 03/11/09	
2500 G : D:	11 0. //200		Date Received: 03/11/09			
2500 Camino Dia	iblo, Ste. #200	Client Co	ntact: Roł	pert Flory	Date Extracted: 03/12/09	
Walnut Creek, CA	A 94597		0.: #WC08		Date Analyzed 03/12/09	
			Pheno	lics*	<u> </u>	
Analytical Method: E4	420.4				Work Order:	0903276
Lab ID	Client ID		Matrix		Phenolics	DF
0903276-001B	Purge Tank		W		230	10

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

\*water samples are reported in ug/L.

	CCampbell Analyti	<u>cal, Inc.</u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565- bbell.com E-mail: main@mccam 377-252-9262 Fax: 925-252-92	pbell.com	
AEI Consulta	nts	Client Project ID:	#281939; Zimmerman	Date Sampled: 03/11/	/09	
2500 Camino	Diablo, Ste. #200			Date Received: 03/11/	/09	
	,	Client Contact:	Robert Flory	Date Extracted: 03/11/	/09	
Walnut Creek	Walnut Creek, CA 94597Client P.O.: #WC081414Date Analyzed 03/12					
		-	rocarbons with Silica Gel	_		
Extraction method:	: SW3510C/3630C	Analytica	methods: SW8015B	Work Or	der: 090	)3276
Lab ID	Client ID	Matrix	TPH-Dies (C10-C23		DF	% SS
0903276-001B	Purge Tank	W	1300,e4	4	1	107
		1				

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or	c	ΝA	NIA
above the reporting limit	3	NA	INA

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

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

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

e4) gasoline range compounds are significant.



<u> </u>	Campbell Analyti "When Ouality Counts"	cal, Inc	<u>•</u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565-1701 obell.com E-mail: main@mccampbell.con 377-252-9262 Fax: 925-252-9269	n			
AEI Consultants		Client Proj	ect ID: #28	1939; Zimmerman	Date Sampled: 03/11/09				
2500 Camino Dia	blo Sto #200				Date Received: 03/11/09				
2500 Camino Dia	Client Cor	ntact: Robe	rt Flory	Date Extracted: 03/12/09					
Walnut Creek, CA	A 94597	Client P.O	.: #WC0814	414	Date Analyzed 03/12/09				
Angladiael Medhada C	M0540D	Tota	al Suspende	d Solids*	WebOder	002276			
Analytical Method: SM2540D Lab ID Client ID Matr				Tota	Work Order: 0	DF			
0903276-001D	Purge Tank		W		23.8	2			
0703270 001D					25.0	2			

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

\* water samples reported in mg/L.

Angela Rydelius, Lab Manager



"When Quality Counts"

## **QC SUMMARY REPORT FOR E1664A**

QC Matrix: Water BatchID: 41892 WorkOrder: 0903276 W.O. Sample Matrix: Water EPA Method: E1664A Extraction: E1664A Spiked Sample ID: N/A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/L mg/L % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD HEMSGT 3.03 N/A 20.83 N/A 110 107 70 - 130 30 N/A N/A N/A N/A All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 41892 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001F	03/11/09 9:30 AM	A 03/11/09	03/12/09 1:20 PM				

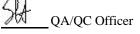
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.

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





"When Quality Counts"

## **QC SUMMARY REPORT FOR E1664A**

QC Matrix: Water BatchID: 41968 WorkOrder: 0903276 W.O. Sample Matrix: Water EPA Method: E1664A Extraction: E1664A Spiked Sample ID: N/A Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%) Analyte mg/L mg/L % Rec. % Rec. % RPD % Rec. % Rec. % RPD MS / MSD RPD LCS/LCSD RPD HEMSGT 6.70 N/A 20.83 N/A 97.3 91 N/A 70 - 130 30 N/A N/A N/A All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 41968 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001G	03/11/09 9:30 AM	A 03/11/09	03/12/09 1:15 PM				

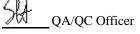
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

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

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.





"When Ouality Counts"

## **QC SUMMARY REPORT FOR E625**

W.O. Sample Matrix: Water		QC Matrix: Water					Batch	BatchID: 41932 WorkOrder 0903276				
EPA Method E625	Extra	ction E62	25					5	Spiked San	nple ID	: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	)
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acenaphthene	N/A	5	N/A	N/A	N/A	66.3	65.7	1.05	N/A	N/A	47 - 145	20
4-Chloro-3-methylphenol	N/A	10	N/A	N/A	N/A	81.6	87.1	6.62	N/A	N/A	22 - 147	20
2-Chlorophenol	N/A	10	N/A	N/A	N/A	62.4	62.5	0.280	N/A	N/A	23 - 134	20
1,4-Dichlorobenzene	N/A	5	N/A	N/A	N/A	56.5	55.9	1.07	N/A	N/A	20 - 124	20
2,4-Dinitrotoluene	N/A	5	N/A	N/A	N/A	79.2	80.6	1.79	N/A	N/A	39 - 139	20
4-Nitrophenol	N/A	10	N/A	N/A	N/A	51	52.9	3.56	N/A	N/A	1 - 132	20
N-Nitrosodi-n-propylamine	N/A	5	N/A	N/A	N/A	66.3	68.6	3.41	N/A	N/A	1 - 230	20
Pentachlorophenol	N/A	10	N/A	N/A	N/A	65.8	66.7	1.31	N/A	N/A	14 - 176	20
Phenol	N/A	10	N/A	N/A	N/A	47.4	49.3	3.94	N/A	N/A	5 - 112	20
Pyrene	N/A	5	N/A	N/A	N/A	71.9	72.4	0.638	N/A	N/A	52 - 115	20
1,2,4-Trichlorobenzene	N/A	5	N/A	N/A	N/A	63.2	62.3	1.29	N/A	N/A	44 - 142	20
%SS1:	N/A	500	N/A	N/A	N/A	49	48	2.12	N/A	N/A	23 - 134	20
%SS2:	N/A	500	N/A	N/A	N/A	49	52	5.54	N/A	N/A	5 - 112	20
%SS3:	N/A	500	N/A	N/A	N/A	67	68	1.01	N/A	N/A	35 - 180	20
%SS4:	N/A	500	N/A	N/A	N/A	78	76	2.53	N/A	N/A	30 - 130	20
%SS5:	N/A	500	N/A	N/A	N/A	83	84	0.315	N/A	N/A	37 - 144	20
%SS6:	N/A	500	N/A	N/A	N/A	80	80	0	N/A	N/A	30 - 130	20

NONE

			JMMARY				
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001E	03/11/09 9:30 AM	03/11/09	03/12/09 10:41 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.

The percent recovery criteria for each analyte in the LCS/LCSD and MS/MSD is derived from Table 6-QC Acceptance Criteria in EPA Method 625.

The surrogate recovery criteria is derived from the criteria for the analyte that most closely resembles the surrogate found in Table 6.





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#### **QC SUMMARY REPORT FOR E608**

W.O. Sample Matrix: Water			QC Matri	x: Water			BatchID: 41933			WorkOrder 0903276		
EPA Method E608	Extra	ction E60	)8	Spiked Sample ID: N/A								
Analyte	Sample	ample Spiked MS MSD MS-MSD L						LCS-LCSD	Acceptance Criteria (%)			
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	N/A	0.50	N/A	N/A	N/A	96.9	97.1	0.203	N/A	N/A	70 - 130	30
g-BHC	N/A	0.50	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
p,p-DDT	N/A	1.25	N/A	N/A	N/A	110	110	0	N/A	N/A	70 - 130	30
Dieldrin	N/A	1.25	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
Endrin	N/A	1.25	N/A	N/A	N/A	119	120	0.839	N/A	N/A	70 - 130	30
Heptachlor	N/A	0.50	N/A	N/A	N/A	84.1	84.3	0.188	N/A	N/A	70 - 130	30
%SS:	N/A	2.5	N/A	N/A	N/A	82	83	0.996	N/A	N/A	70 - 130	30
All target compounds in the Method NONE	l Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

			BATCH 41933 SU	<u>JMMARY</u>				
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
0903276-001D	03/11/09 9:30 AM	03/11/09	03/11/09 10:09 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.

QA/QC Officer



"When Ouality Counts"

## **QC SUMMARY REPORT FOR E624**

EPA Method E624	Extra	ction E62	4				Spiked Sample ID: 0903260-005B						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)		
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Benzene	ND	10	104	104	0	114	112	1.41	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	
1,1-Dichloroethene	ND	10	75.1	74.8	0.437	73.9	73.3	0.859	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	

#### BATCH 41955 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001C	03/11/09 9:30 AM	I 03/12/09	03/12/09 7:43 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.



QA/QC Officer



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

QC Matrix: Water W.O. Sample Matrix: Water BatchID: 41954 WorkOrder 0903276 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 0903264-011A MSD MS-MSD LCS LCSD LCS-LCSD Spiked MS Sample Acceptance Criteria (%) Analyte % RPD MS / MSD RPD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD TPH(btex) ND 96.1 7.47 89.9 95.5 6.07 70 - 130 70 - 130 60 104 20 20 95.8 MTBE 10 89.6 ND 101 5.23 96 6.91 70 - 130 2.0 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 2.4096.7 87.9 9.55 70 - 130 20 70 - 13020 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 2.0 70 - 130 20 %SS: 99 10 95 98 2.71107 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
0903276-001A	03/11/09 9:30 AM	03/12/09	03/12/09 6:47 AM	0903276-001A	03/11/09 9:30 AM	03/12/09	03/12/09 9:58 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.



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#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water		QC Matrix: Water					BatchID: 41956			WorkOrder 0903276			
EPA Method SW8015B Extraction SW3510C/3630C							Spiked Sample ID: N/A						
Analyte	Sample	Sample Spiked MS MSD MS-MSD LC						LCS-LCSD	Acc	eptance	Criteria (%)		
, indi y to	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	87.2	87.4	0.309	N/A	N/A	70 - 130	30	
%SS:	N/A	2500	N/A	N/A	N/A	81	84	3.83	N/A	N/A	70 - 130	30	
All target compounds in the Metho NONE	d Blank of this	extraction	batch we	re ND les	s than the	$\alpha_1$ $\alpha_4$ $\beta_4$ $\beta_5$ $\alpha_5$ $\alpha_7$							

#### BATCH 41956 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001B	03/11/09 9:30 AM	<b>I</b> 03/11/09	03/12/09 1:39 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.

A QA/QC Officer



"When Ouality Counts"

## **QC SUMMARY REPORT FOR E245.2**

W.O. Sample Matrix: Water QC Matrix: Water						BatchID: 41871				WorkOrder 0903276		
EPA Method E245.1	Extra	ction E24	15.1					5	Spiked San	nple ID	: 0903001-0	A80
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	S LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
, and y to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Mercury	ND	1	106	95.1	11.3	97.3	88.2	9.81	70 - 130	30	80 - 120	20
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 41871 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001B	03/11/09 9:30 AM	1 03/11/09	03/12/09 2:50 PM				

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

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

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

N/A = not applicable to this method.

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

QA/QC Officer



"When Quality Counts"

## **QC SUMMARY REPORT FOR E200.7**

W.O. Sample Matrix: Water		QC Matrix	k: Water			BatchID: 41909			WorkOrder: 0903276			
EPA Method: E200.7	Extraction: E200.7							5	Spiked Sample ID: 0903001-009/			09A
Analyte	Sample	ple Spiked MS MSD MS-MSD LCS					LCSD	LCS-LCSD	Acceptance Criteria (%)			
, maryte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	ND	100	79.1	75.7	4.38	88.5	93.6	5.59	70 - 130	20	85 - 115	20
Cadmium	ND	100	103	101	1.47	104	102	1.45	70 - 130	20	85 - 115	20
Chromium	ND	100	103	102	0.681	104	97.3	6.39	70 - 130	20	85 - 115	20
Copper	46	100	106	105	0.528	106	106	0	70 - 130	20	85 - 115	20
Iron	ND	1000	91.2	91.9	0.808	98.6	98.7	0.0203	75 - 125	20	80 - 120	20
Lead	ND	100	100	106	5.64	100	106	6.20	70 - 130	20	85 - 115	20
Nickel	ND	100	103	98.9	4.37	101	102	1.18	70 - 130	20	85 - 115	20
Silver	ND	100	116	114	2.52	108	108	0	70 - 130	20	85 - 115	20
Zinc	ND	1000	99.6	105	4.89	104	101	2.93	70 - 130	20	85 - 115	20
%SS:	106	750	104	105	0.896	99	100	1.38	70 - 130	20	70 - 130	20
All target compounds in the Method Bl NONE	ank of this extr	action bate	h were NE	less than	the method	RL with	the follow	ing exception	s:			

#### BATCH 41909 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001B	03/11/09 9:30 AM	I 03/11/09	03/12/09 3:32 PM	0903276-001B	03/11/09 9:30 AN	I 03/11/09	03/12/09 5:16 PM

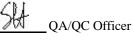
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

N/A = not applicable to this method.

NR = 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.





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# QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:	Test Method: pH Matrix: W							
Method Nam	e: SM45	500H+B		Units ±, pH u		BatchID: 41969		
Lab ID		Sample	DF	Precision	Acceptance Criteria			
0903276-001D		7.37 @ 19.0°C	1	7.36 @ 19.1°C	1	0.01	0.02	
Lab ID	Date	Sampled Date Extr		<u>CH 41969 SUMMARY</u> nalyzed Lab ID	-	Sampled Date	Extracted Date Analyzed	
0903276-001D	03/11	/09 9:30 AM 03/11	1/09 03/11/09	8:37 PM				

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

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

A QA/QC Officer



"When Ouality Counts"

# QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:	рН			Matrix: W		WorkOrder: 0903276			
Method Nam	e: SM45	500H+B		Units ±, pH u		BatchID: 41969			
Lab ID		Sample	DF	Dup / Ser. Dil.	Acceptance Criteria				
0903276-001D		7.37 @ 19.0°C	1	7.36 @ 19.1°C	1	0.01	0.02		
Lab ID	Date	Sampled Date Extr		<u>CH 41969 SUMMARY</u> nalyzed Lab ID	-	Sampled Date	Extracted Date Analyzed		
0903276-001D	03/11	/09 9:30 AM 03/11	1/09 03/11/09	8:37 PM					

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

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

A QA/QC Officer



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#### **QC SUMMARY REPORT FOR E420.2**

W.O. Sample Matrix: Water	O. Sample Matrix: Water QC Matrix: Water									WorkOrder 0903276				
EPA Method E420.4	Extra	ction E42	20.4					5	Spiked San	nple ID	: 0903168-0	001E		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	)		
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
Phenolics	3.5	40	97.5	97.1	0.436	99.8	102	2.45	70 - 130	30	80 - 120	20		
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:					

#### BATCH 41893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903276-001B	03/11/09 9:30 AM	4 03/12/09	03/12/09 11:57 AM				

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

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

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

N/A = not applicable to this method.

NR = 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.

QA/QC Officer



"When Ouality Counts"

# QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

#### Test Method: Total Suspended Solids Matrix: W WorkOrder: 0903276 BatchID: 41927 Units mg/L Method Name: SM2540D Lab ID Sample DF Dup / Ser. Dil. DF % RPD Acceptance Criteria (%) 0903276-001D 23.8 2 23.4 2 <15 1.69 BATCH 41927 SUMMARY I ab ID Date Extracted Date Analyzed Lab ID Date Sampled Date Extracted Date Sampled Date Analyzed 0903276-001D 03/11/09 9:30 AM 03/12/09 03/12/09 3:15 PM

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

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

A QA/QC Officer

When Ouality		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants	Client Project ID: #281939	); Zimmerman	Date Sampled:	03/13/09					
2500 Camino Diablo, Ste. #200			Date Received:	03/13/09					
Walnut Creek, CA 94597	Client Contact: Kirby Fer	nando	Date Reported:	03/17/09					
		Date Completed:	03/17/09						

#### WorkOrder: 0903362

March 17, 2009

Dear Kirby:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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w W	dcCAMP ebsite: <u>www.m</u> lephone: (87	1534 WI PITTSBU ccampbe	LLOW PA IRG, CA 94 Il.com En	SS RO 565-1	AD 701	mcc	amp	obel	l.con			R	U	1		R	10	4	OU	ND	T	IM D	E PD	F	RU	) SH E	24 xce			48 W	R B HI rit	R te (		HR DV	5 DAY V) 🖵 required
Report To: Kirby	y Fernando		E	Bill To	: AI	ELC	ons	ulta	ints	-		_		t						A	nal	ysis		-							Т	-	ther	-	Comment
Company: AEI 2500 E-Mail: kfernan Tele: (925)944 Project #: 2-5	Consultants Camino Dial do@aeiconsu -2899 x123 1939	ltants.co	Walnut om F	Cree ax: (	k 945 925 et Naj	97 ) 94 ne:	4-28	395		16	2			10100	391W/(CI08 + 17		Total Petroleum Oil & Grease (1664/5520 E/B&F)	s (418.1)	HVOCs)			EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners				(8	PNAs)	(6010 / 6020)	6010 / 60201	(anno 10000	6		& amonuble		Filter Samples for Metals analysis: Yes / No
Project Location Sampler Signatu	re: 19	Eren	ine, c	ar	Gne	×				_		-			0.0 2 30		ease	rbon	021 (	PA 6	estic	ALY;	cides	1 He	OCs)	100	AHs	00.8	0.8/	1000	1 0.07				
Sampler Signatu	101	• SAM	PLING		lers		MA	TR	IX	,	ME	TH		- 10 I	+ 1702 / 2071 +	015)	Oil & Gr	Hydroca	8/0108/	NLY (E)	081 (CI P	CB's ON	(NP Pesti	Acidic C	8260 (V)	8270 (SV	8310 (PA	(200.7 / 2)	200.7 / 20	010010	0100 / 010		total		
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Ouner	ICE	UND	Other Other	DTEV & TBU at	BILA & IFH as	TPH as Diesel (8015)	Total Petroleum	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 F	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	0001 ± 0001 Fre 1	Licad (200, 17 200,01 0010 1 0020)	cubt	Gyanicle		
WTANK	Water	3 13	12:26	3	AUV	X				t				T																	)	×	X		
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ALX X	\	3/13	1.15	1	4	C	V	-	-1	-				1	IEA	D CO	AC	E Al	BSE	NT_	- 1	_													
Relinquished By:		Date:	Time:	Rece	i√ed B	y:								A	APP	HLO	RIA	TE	CON	TAI		RS.V	1	_											
Relinquished By:		Date:	Time:	Rece	ived B	y:		-						1'	RE	SER	v EL	) IN		_	0		MIT	TAT	e	OT	IFF								
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1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 0903362	Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	II to:		Rec	uested TAT:	2 days
Kirby Fernando	Email:	kfernando@aeic	onsultants.com		Denise Mocke	el			
AEI Consultants	CC:				AEI Consultar	nts			
2500 Camino Diablo, Ste. #200	PO:				2500 Camino	Diablo, Ste. #20	0 Dat	te Received:	03/13/2009
Walnut Creek, CA 94597	ProjectNo	: #281939; Zimme	erman		Walnut Creek	, CA 94597	Dat	te Printed:	03/13/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@ae	iconsultants.com	1		

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
					-							-			
0903362-001	Wtank	Water	3/13/2009 12:26	В	В	Α									

#### Test Legend:

1	CN_AMEN_W
6	
11	

2	CN_TOTAL_W	
7		
12		

3	CODF_W	4	
8		9	

4	
9	

5	
10	

Prepared by: Melissa Valles

#### **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.



"When Ouality Counts"

## Sample Receipt Checklist

Project Name: #281939; Zimmerman Checklist completed and reviewed	by: Melissa Valles
WorkOrder N°:0903362MatrixWaterCarrier:Client Drop-In	
Chain of Custody (COC) Information	
Chain of custody present? Yes 🗹 No 🗌	
Chain of custody signed when relinquished and received? Yes $\checkmark$ No $\Box$	
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: 23°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 🗹	

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

Client contacted:

Date contacted:

Contacted by:

Comments:

<u> </u>	Campbell Analyti "When Ouality Counts"	ical, Inc.		Web: www.mccamp	Pass Road, Pittsburg, CA 94565-1701 bell.com E-mail: main@mccampbell.cor 377-252-9262 Fax: 925-252-9269	n			
AEI Consultants	1	Client Proje	ect ID: #28	1939; Zimmerman	Date Sampled: 03/13/09				
2500 Camino Dia	able Sta #200				Date Received: 03/13/09				
2500 Callino Dia	abio, Ste. #200	Client Cont	tact: Kirby	Fernando	Date Extracted: 03/16/09				
Walnut Creek, C.	A 94597	Client P.O.:	:		Date Analyzed 03/16/09				
		Cya	anide, Ame	enable*					
Analytical Method: E					Work Order: 0	1			
Lab ID	Client ID		Matrix	A	menable Cyanide	DF			
0903362-001B	Wtank		W		ND	1			

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

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

	Campbell Analyti "When Ouality Counts"	cal, Inc	<u>-</u>	Web: www.mccamp	Pass Road, Pittsburg, CA 94565-1701 bbell.com E-mail: main@mccampbell.c 377-252-9262 Fax: 925-252-9269	om
AEI Consultants		Client Proj	ect ID: #28	1939; Zimmerman	Date Sampled: 03/13/09	
		5			Date Received: 03/13/09	
2500 Camino Dia	blo, Ste. #200	Client Cor	ntact: Kirby	Fernando	Date Extracted: 03/16/09	
Walnut Creek, CA	A 94597	Client P.O			Date Analyzed 03/16/09	
					Date Analyzed 05/10/07	
Analytical Method: K	elada-01		Cyanide, To	otal*^	Work Order:	0903362
Lab ID	Client ID		Matrix		Total Cyanide	DF
0903362-001B	Wtank		W		ND	1

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

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

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

<u> </u>	Campbell Analyti "When Ouality Counts"	cal, Inc.	•	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants		Client Proje	ect ID: #28	1939; Zimmerman	Date Sampled: 03/13/09						
2500 Camino Dia	ablo Ste #200				Date Received: 03/13/09						
2500 Callino Di	1010, Ste. 11200	Client Con	tact: Kirby	Fernando	Date Extracted: 03/16/09						
Walnut Creek, C.	A 94597	Client P.O.	:		Date Analyzed 03/16/09						
			CODF*	¢							
Analytical Method: S Lab ID	M5220D Client ID		Matrix		Work Order: CODF	0903362 DF					
0903362-001A	Wtank		W		32	1					

Reporting Limit for DF = 1; ND means not detected at or	W	10 mg/L	
above the reporting limit	S	NA	

Angela Rydelius, Lab Manager

\* water sample is filtered by using 0.7 Glass Microfiber Filter and reported in mg/L.



"When Ouality Counts"

#### QC SUMMARY REPORT FOR E335.1/ Kelada-01

W.O. Sample Matrix: Water		QC Matrix: Water						ID: 42044		WorkOrder 0903362		
EPA Method E335.1 / Kelada-01	Extraction E335.1 / Kelada-01 Spiked Sample ID: 0903362-0								01B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	D Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Amenable Cyanide	ND	40	95.6	95.3	0.314	99.9	100	0.0700	80 - 120	20	90 - 110	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 42044 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903362-001B	03/13/09 12:26 PM	1 03/16/09	03/16/09 3:32 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.

DHS ELAP Certification 1644

QA/QC Officer



"When Ouality Counts"

#### **QC SUMMARY REPORT FOR Kelada-01**

W.O. Sample Matrix: Water			QC Matri	x: Water			BatchID: 42043				WorkOrder 0903362	
EPA Method Kelada-01	Extra	ction Kel	ada-01					S	Spiked San	nple ID	: 0903367-0	01Q
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Cyanide	ND	40	99.8	104	3.86	102	110	7.15	80 - 120	20	90 - 110	20
All target compounds in the Method H NONE	alank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 42043 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903362-001B	03/13/09 12:26 PM	1 03/16/09	03/16/09 1:31 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.

DHS ELAP Certification 1644

QA/QC Officer



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

## "When Ouality Counts"

#### QC SUMMARY REPORT FOR SM5220D

W.O. Sample Matrix: Water			QC Matri	x: Water			BatchID: 42045			WorkOrder 0903362			
EPA Method SM5220D	Extra	ction SM	5220D	Spiked Sample ID: 0903362-00						01A			
Analyte	Sample	Sample Spiked MS MSD MS-MSD LCS LCSD I						SD LCS-LCSD Acce			eptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
CODF	32	400	100	97.7	2.31	101	99	2.47	80 - 120	20	90 - 110	20	
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:				

#### BATCH 42045 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903362-001A	03/13/09 12:26 PM	1 03/16/09	03/16/09 3:01 PM				

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell An "When Ouality		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	04/15/09					
2500 Camino Diablo, Ste. #200			Date Received:	04/15/09					
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	04/20/09					
Wunde Creek, CIT 94397	Client P.O.: #WC081551		Date Completed:	04/17/09					

#### WorkOrder: 0904368

April 20, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

Report To: Robert Flory						NC	•						Ι.	CUL	144							FO		SI	ro	D		ECC				
Report To: Robert Flory														U	<in.< th=""><th>AR</th><th></th><th>UN.</th><th>וע</th><th></th><th>IE</th><th></th><th></th><th>USH</th><th></th><th>24 1</th><th>-</th><th>48 H</th><th></th><th></th><th>HR</th><th>5 DAY</th></in.<>	AR		UN.	וע		IE			USH		24 1	-	48 H			HR	5 DAY
Report To: Robert Flory									_		_		E	DF	Reg	uire	ed?		And in case of the local division of the loc	Yes			•	No		_				_		
		)	Bill To	o: Sai	ne								┝				-	Ana	alys	is R	equ	est						Otl	her	+	Com	ments
Company: AEI Consultan 2500 Camino I														NUP	&F)																	
Walnut Creek	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OF THE OWNER OWNE		E-N	fail: r	flor	a	nico	neul	tan	ts cor	m		BE	SILICA GEL CLEANUP	F/B								10									
Tele: (925) 746-6000	CA 74577	1	Fax: (				_	noui	carr	13.001			8015)/MTBE	G	DE&	9							/ 8310									
Project #: 281939 PO: WO	081551		rojec					rma	n		-		8015	GEI	552	(418		-					625/8270/									
	Adeline, Oa	-											+ 00	ICA	asc (	ons		8020		ILY			5/8			(0)						
Sampler Signature:		h	-										2/802	SIL	Gre	carb		12/1		NO			A 62			2/60						
	V	PLING	2	ners		MA	TR	IX		ME			Gas (60)		n Oil &	n Hydro	0	(EPA 60	0	0 PCB's	0	0	by EP/	s		21/239.2						
SAMPLE ID (Field Point Name)	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	Ice	- INIT	Other	BTEX & TPH as Gas (602/8020 +	TPH as Dicsel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI					
Poly Tank	4/15/09	1:30	3	V043	×					XX	<		X																			
										-																						
Relinquished By:	Date:	Time:	Rece	ived B	y:									ICE/	0	7 /	2										vo	DAS ON	&G	ME	TALS	OTHER

1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090436	8 Client	Code: AEL		
		WriteOn		Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	I to:		Rec	quested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsul	tants.com		Denise Moc	kel			
AEI Consultants	CC:				AEI Consult	ants	-	~	
2500 Camino Diablo, Ste. #200	PO:	#WC081551			2500 Camin	o Diablo, Ste. #20	0 Dat	te Received:	04/15/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	rman		Walnut Cree	ek, CA 94597	Dat	te Printed:	04/15/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	١		
						Requested Tests	(See legend k	celow)	

							Req	uested	Tests (	See leg	gend be	elow)			
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
0904368-001	Poly Tank	Water	4/15/2009 13:30	А											

#### Test Legend:

1	G-MBTEX_W	
6		
11		

2	
7	
12	

3	
8	

4	
9	

5		
10		

Prepared by: Maria 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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants				Date a	and Time Received:	04/15/09 4	:30:30 PM
Project Name:	#281939; Zimmer	man			Check	list completed and re	eviewed by:	Maria Venegas
WorkOrder N°:	0904368	Matrix <u>Water</u>			Carrie	r: <u>Client Drop-In</u>		
		Chain	of Cu	stody (C	OC) Informa	ition		
Chain of custody	present?		Yes	✓	No 🗆			
Chain of custody	signed when relinqui	shed and received?	Yes	✓	No 🗆			
Chain of custody	agrees with sample l	abels?	Yes		No 🗌			
Sample IDs noted	by Client on COC?		Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?		Yes		No 🗆			
		Si	ample	Receipt	Information	<u>l</u>		
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No 🗆		NA 🗹	
Shipping containe	er/cooler in good cond	ition?	Yes	✓	No 🗆			
Samples in prope	er containers/bottles?		Yes	✓	No 🗆			
Sample containe	rs intact?		Yes	✓	No 🗆			
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌			
		Sample Prese	rvation	and Ho	old Time (HT)	) Information		
All samples recei	ved within holding time	e?	Yes	✓	No 🗌			
Container/Temp E	Blank temperature		Coole	r Temp:	9.2°C		NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes	✓	No 🗆	No VOA vials subm	itted 🗆	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No 🗌			
TTLC Metal - pH	acceptable upon recei	pt (pH<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗆			
		(Ісе Тур	e: WE	T ICE	)			
* NOTE: If the "N	lo" box is checked, se	ee comments below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell Analy			Web: www.mcca	mpbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com		
AEI Cor	nsultants		Client Project ID	): #281939;				15/09		
						Date R	eceived: 04/1	15/09		
2500 Ca	mino Diablo, Ste. #2	200	Client Contact:	Robert Flor	rv.	Date F	xtracted: 04/1	16/09		
Walnut (	Creek, CA 94597		Client P.O.: #W		, y		nalyzed 04/1			
vv annut v							-			
Extraction m	Gas ethod SW5030B	oline Range	e (C6-C12) Volatile H Analyti	-	<b>ns as Gasolin</b> W8021B/8015Bn		EX and MITBE		ler: 090	)4368
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Poly Tank	w	200,d1	5.7	30	1.5	0.60	11	1	106
										+
										+
										+
Por ort:	ng Limit for DF =1;								<u> </u>	<u> </u>
ND mean	ns not detected at or	W S	50	5.0 0.05	0.5	0.5	0.5	0.5		g/L g/Kg
above	the reporting limit	3	1.0	0.05	0.005	0.005	0.005	0.005	mş	yng

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant





"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matriz	x: Water			ID: 42663	WorkOrder 0904368						
EPA Method SW8021B/8015Bm	Extra	raction SW5030B						Spiked Sample ID: 0904375-002A						
Analyte	Sample	le Spiked MS MSD MS-				LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)			
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex <sup>f</sup>	ND	60	106	104	2.33	106	110	3.61	70 - 130	20	70 - 130	20		
MTBE	ND	10	110	105	4.43	117	112	4.37	70 - 130	20	70 - 130	20		
Benzene	ND	10	83.8	90.2	7.35	92.2	91.6	0.661	70 - 130	20	70 - 130	20		
Toluene	ND	10	89.9	92.6	2.98	95	94	1.13	70 - 130	20	70 - 130	20		
Ethylbenzene	ND	10	93.4	93.6	0.262	94.5	93.4	1.25	70 - 130	20	70 - 130	20		
Xylenes	ND	30	105	105	0	106	105	0.991	70 - 130	20	70 - 130	20		
%SS:	93	10	103	103	0	103	104	1.43	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 42663 SU	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904368-001A	04/15/09 1:30 PM	1 04/16/09	04/16/09 5:57 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).

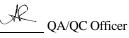
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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



McCampbell An "When Ouality"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled: 04/30/09						
2500 Camino Diablo, Ste. #200			Date Received:	04/30/09					
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported: 05/01/09						
	Client P.O.:		Date Completed:	05/01/09					

#### WorkOrder: 0904717

May 01, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

	McCAN	IPBELI	ANA	LYT	ICA	LI	NC								_	-	4	-	CH	IA	IN	0	F	CU	IST	ro	D	YF	REC	COI	RD		
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NAME OF TAXABLE PARTY OF TAXABLE PARTY.	ut Creek, C	A 94597			ail:rfl	-	-		ultan	ts.co	m		-	2)	w silica gel	gel EPA 1664	~			w/ Sil				8310									
Tele: (925) 746-60	000 A	-	11 11	ax: (	and the second se			_				-	-	8015)	W S	Bel	18.1			5) W				10/8									
Project #: 281939		St	11 /	Projec	t Nar	ne:2	Lim	mer	man	1	-	-	-	20+	ange	v/sil	15 (4		(02	801	~			827									
Project Location:	110	e Street/C	Jakland,	, CA	_	-		-	_	_		-	-	(602/8020	lti-ra	ria v	rbor		/ 800	MO	NL			525			010						
Sampler Signatur	e: m		1/1		-	-	272.5		10.0		MET	гног		is (60	-Mu	Mate	roca		602	QD/	0 S.		Ő	PA (	0		9.2/6						
		SAMP	LING	- 50	ners		MA	TR	IX	PI	RES	ERVI	ED	as Gas	015)-	able N	n Hyd	260	EPA	ge ((	) PCB	_	VS-(	by E	s 602		21/239						
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Ice	HCI	HNO <sub>3</sub>	Other	MBTEX & TPH	TPH as Diesel (8015) -Multi-range	Hexane Extractable Materia w/sil	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (G/D/MO 8015)	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA 625 / 8270 /	CAM-17 Metals 6020	EUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI					
Poly water tank	-	4/30/04	920	3	Vars	X		-		_	X		-	X	E	_		-	-	-		-			-					-	-	-	-
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1534 Willow Pass Rd Bittsburg, CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090471	7 Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	✓ Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	II to:		Rec	quested TAT:	1 day
Robert Flory	Email:	rflory@aeiconsul	tants.com		Denise Moc	kel			
AEI Consultants	CC:				AEI Consult	ants	-		
2500 Camino Diablo, Ste. #200	PO:				2500 Camir	no Diablo, Ste. #20	10 Dat	te Received:	04/30/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	erman		Walnut Cree	ek, CA 94597	Dai	te Printed:	04/30/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	1		
						Requested Tests	(See legend k	pelow)	

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
0904717-001	Poly water tank	Water	4/30/2009 9:20	А											

#### Test Legend:

1	G-MBTEX_W	] [:
6		] [
11		1

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Prepared by: Samantha Arbuckle

#### **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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	and Time Received:	04/30/09 1	:43:58 PM
Project Name:	#281939; Zimmer	man				Check	list completed and r	eviewed by:	Samantha Arbuckle
WorkOrder N°:	0904717	Matrix <u>Wat</u>	er			Carrie	r: <u>Client Drop-In</u>		
			<u>Chain</u>	of Cu	stody (C	COC) Informa	ition		
Chain of custody	present?			Yes	$\checkmark$	No 🗆			
Chain of custody	signed when relinqui	shed and rec	eived?	Yes	$\checkmark$	No 🗆			
Chain of custody	agrees with sample I	abels?		Yes	✓	No 🗌			
Sample IDs noted	by Client on COC?			Yes	$\checkmark$	No 🗆			
Date and Time of	collection noted by Cli	ient on COC?		Yes	✓	No 🗆			
Sampler's name r	noted on COC?			Yes	✓	No 🗆			
			<u>Sa</u>	mple	Receipt	Information	<u>l</u>		
Custody seals int	tact on shipping conta	iner/cooler?		Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good cond	lition?		Yes	$\checkmark$	No 🗆			
Samples in prope	er containers/bottles?			Yes	$\checkmark$	No 🗆			
Sample containe	rs intact?			Yes	$\checkmark$	No 🗆			
Sufficient sample	volume for indicated	test?		Yes	✓	No 🗌			
		Sample	e Preserv	vation	n and Ho	old Time (HT)	) Information		
All samples recei	ved within holding tim	e?		Yes	✓	No 🗌			
Container/Temp E	Blank temperature			Coole	r Temp:	5.6°C		NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bubbl	es?	Yes	$\checkmark$	No 🗆	No VOA vials subm	itted 🗆	
Sample labels ch	necked for correct pres	servation?		Yes	✓	No 🗌			
TTLC Metal - pH	acceptable upon recei	ipt (pH<2)?		Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No 🗆			
			(Ice Type	: WE	TICE	)			
* NOTE: If the "N	lo" box is checked, se	ee comments	below.						
		· <u> </u>							

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbell Analytical, Inc.       1534 Willow Pass Road, Pittsburg, CA 94565-1701         Web: www.mccampbell.com       E-mail: main@mccampbell.com         "When Ouality Counts"       E-mail: main@mccampbell.com         AEI Consultants       Client Project ID: #281939; Zimmerman       Date Sampled: 04/30/09															
AEI C	Consultants			Client P	roject ID: #	281939; Zim	merman	Date Sample	ed: 04/30	)/09						
2500	Camino Diablo, Ste. #2	200						Date Received: 04/30/09								
	,			Client Contact: Robert Flory Date Extracted: 05/01/09												
Walnu	Walnut Creek, CA 94597       Client P.O.:       Date Analyzed:       05/01/09         Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*															
Extraction	G on method: SW5030B	asoline l	Range (	(C6-C12)	-	drocarbons			and MTBE*		k Order: (	0904717				
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments				
001A	Poly water tank	W	]	ND	ND	2.6	0.57	ND	3.1	1	106					
	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5		μg/L					
	ND means not detected at or above the reporting limit       S       1.0       0.05       0.005       0.005       0.005       0.005       mg/Kg															

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

Angela Rydelius, Lab Manager

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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



McCampbell Analytical, Inc. "When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matrix	k: Water			Batch	ID: 42978	WorkOrder: 0904717						
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B				Spiked Sample ID: 0904718-002B								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	D Acceptance Criteria (%)						
, and y to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
TPH(btex)	ND	60	101	93.8	6.99	98.4	102	3.69	70 - 130	20	70 - 130	20			
MTBE	ND	10	97.9	97.7	0.176	98	92.8	5.48	70 - 130	20	70 - 130	20			
Benzene	ND	10	86.5	85.2	1.51	101	98.4	2.34	70 - 130	20	70 - 130	20			
Toluene	ND	10	84.6	82.8	2.19	98.1	96.3	1.84	70 - 130	20	70 - 130	20			
Ethylbenzene	ND	10	82.2	81	1.51	103	101	2.41	70 - 130	20	70 - 130	20			
Xylenes	ND	30	83.7	80.5	3.90	103	102	1.21	70 - 130	20	70 - 130	20			
%SS:	100	10	96	101	5.06	101	97	4.32	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 42978 SL	JMMARY				
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
0904717-001A	04/30/09 9:20 AM	05/01/09	05/01/09 7:52 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.



## **APPENDIX E**

Impacted Soil Stockpile Analyses

McCampbell A		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.co Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants	Client Project ID: #281939	9; Zimmerman,	Date Sampled:	03/11/09					
2500 Camino Diablo, Ste. #200	3442 Adeline, Oakland		Date Received:	03/11/09					
Walnut Creek, CA 94597	Client Contact: Kirby Fer	rnando	Date Reported:	03/17/09					
Wanut Creek, CA )+577	Client P.O.:		Date Completed:	03/17/09					

#### WorkOrder: 0903283

March 17, 2009

Dear Kirby:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: **#281939; Zimmerman, 3442 Adeline**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

																		0	79	10	2	52	8	C	5									
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Report To: Kirby	Fernando		F	Bill To	o: Al	EI C	ons	sult	ants											A	Inal	lysis	Re	ques	st						(	Other		Comments
Company: AEI C 2500 E-Mail: kfernan	Camino Diab			Cree	k 945	97								_	8015) / MTBE		E/B&F)					ongeners												Filter Samples
Tele: (925)944-		itants.co		Fax:	(925	04	4.2	905			-			-	(2)/		520			-		s/C						020)	020)					for Metals
Project #: 2%10					ct Nar								_	-			64/5	[8.1)	OCs)	8021	_	oclon		ides)			As)	9/0	0/6					analysis: Yes / No
Project Location:	2442 1	il ela	· C	201)	2.8	inc.	-	1.11	and a	MA	in	-	_		021+		e (16	ns (4	(HV	602 /	cides	: And	(5	rbic	-	(8)	/PN	/ 601	109/	20)				res/no
Sampler Signatur	e: 119 -	1 h	e,c	un l	auna					_				-	(602 / 8021 +		rease	arbor	8021	PA (	Pesti	NLY	licide	CIHe	0Cs	VOC	AHs	200.8	00.8	1 60				
	00	SAM	PLING	2	ners		MA	ATR	ux			ETH			s Gas (60	(\$10)	Oil & G	Hydroc	/ 8010 / 8	DNLY (F	081 (CI I	PCB's O	(NP Pest	(Acidic (	/ 8260 (V	/ 8270 (S	/ 8310 (P	(200.7 / 2	200.7/2	0.8 / 6010				
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)				
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610	1	3/109	600	15	a	1/2	/	7	2		-				GO HE	OOD (	CON	CE A	ION	INT_		_												
Refinquished By:	<u> </u>	Dater Bullog	Time: 630		eived	a	- /	r	-1	r					AP	CHL PRO ESEI	PRL	ATE	CON	NTA		RS	-	-										
Relinquisted By:		Date:	Time:	Rece	eived B	iy:										ESEI			vo		08	&G	ME pH<		s	отн	ER							

1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				Work	Order:	09032	83	Client	Code: AEL	1				
		WriteOn		Excel	Γ	Fax	✓	Email	HardCop	ру [	Third	Party	☐ J-f	lag
Report to:					Bill to:				R	₹eque	ested T	AT:	5 c	lays
Kirby Fernando AEI Consultants 2500 Camino Diablo, Ste. #200	Email: cc: PO:	kfernando@a	eiconsultants.com		AE	nise Mo I Consul 00 Cami	Itants	lo, Ste. #20	<sub>0</sub> L	Date	Receiv	ved:	03/11/2	2009
Walnut Creek, CA 94597 (925) 283-6000 FAX (925) 283-6121	ProjectNo	: #281939; Zim Oakland	nmerman, 3442 Ade	eline,			ek, CA 9 aeiconsi	94597 ultants.com		Date	Printe	d:	03/11/2	2009
							Reque	sted Tests	(See legen	id bel	ow)			
Lah ID Client ID		Matrix	Collection Data		2	2	4	5 6	7	0	0	10	11	12

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
		-	-													
0903283-001	STKA1234	Soil	3/11/2009 15:00		А	А										
0903283-002	STKB1234	Soil	3/11/2009 15:10		А	А										
0903283-003	STKC1234	Soil	3/11/2009 15:20		А	А										

#### Test Legend:

1	G-MBTEX_S	
6		
11		

2	PB_S
7	
12	

3	
8	

4	
9	

5			
10			

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.



"When Ouality Counts"

### Sample Receipt Checklist

Client Name: AEI Consultants		Date and Time Received: 3/11/2009 7:24:57 PM								
Project Name: #281939; Zimmerman, 3442 Adel	line, Oakland	Checklist completed and re-	viewed by: Ana Venegas							
WorkOrder N°:         0903283         Matrix         Soil		Carrier: Benjamin Yslas	(MAI Courier)							
Chi	ain 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	VA V							
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 Pre	servation and Hold 1	ime (HT) Information								
All samples received within holding time?	Yes 🗹	No 🗌								
Container/Temp Blank temperature	Cooler Temp: 3.4	°C								
Water - VOA vials have zero headspace / no bubbles?	Yes 🗌	No D No VOA vials submit	ted 🗹							
Sample labels checked for correct preservation?	Yes 🔽	No 🗌								
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes 🛛	No 🗆 🔹 I	VA 🗹							
Samples Received on Ice?	Yes 🔽	No 🗆								
(Ice T	ype: WETICE )									
* NOTE: If the "No" box is checked, see comments below.										

Client contacted:

Date contacted:

Contacted by:

Comments:

	1	<b>ell Ana</b> en Oualitv Co	lytical, Inc.		Web: www.mcca	mpbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com		
AEI Co	onsultants		Client Project ID 3442 Adeline, O		Zimmerman		1	11/09		
2500 C	Camino Diablo, Ste. #2	200	Client Contact:	Kirby Fern	ando		eceived: 03/1 xtracted: 03/1			
Walnut	t Creek, CA 94597		Client P.O.:				nalyzed 03/1		/09	
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*           Extraction method \$W5030B         Analytical methods \$W8021B/8015Bm         Work Order: 0903283										3283
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	STKA1234	S	43,d1	ND<0.10	0.17	0.069	0.32	0.82	2	90
002A	STKB1234	S	31,d7,d9	ND	0.044	0.019	0.13	0.40	1	107
003A	STKC1234	s	60,d7,d9	ND	0.25	0.032	0.59	1.3	1	102
$\left  \right $										
$\left  \right $										
	ting Limit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	u	g/L
	ans not detected at or e the reporting limit	S	1	0.05	0.005	0.005	0.005	0.005	mş	g/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 McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern

<u>McCa</u>	"When Ouality Counts"	ical, Inc	<u>.</u>	Web: www	v.mccamp	Pass Road, Pittsburg, CA 9456 bell.com E-mail: main@mcca 877-252-9262 Fax: 925-252-9	mpbell.com			
AEI Consultants				#281939; Zimmer	rman,	Date Sampled:03/11/09Date Received:03/11/09				
2500 Camino Diable	o. Ste. #200	3442 Ade	line, Oakia	and						
				rby Fernando	Date Extracted: 03/1	1/09				
Walnut Creek, CA 9	94597	Client P.C	).:		Date Analyzed 03/1	2/09				
Lead by ICP*										
Extraction method SW305				ethods 6010C			Order: 09			
Lab ID	Client ID		Matrix	Extraction Type		Lead	DF	% SS		
0903283-001A	STKA1234		S	TOTAL		17	1	108		
0903283-002A	STKB1234		S	TOTAL		12	1	105		
0903283-003A	STKC1234		S	TOTAL	10			98		

Reporting Limit for DF =1;	W	TOTAL	NA	μg/L
ND means not detected at or	S	TOTAL	5.0	mg/Kg
above the reporting limit				0 0

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

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

TOTAL = acid digestion. WET = Waste Extraction Test (STLC). DI WET = Waste Extraction Test using de-ionized water.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil QC Matrix: Soil				BatchID: 41945 WorkO				Order 09032	83		
EPA Method SW8021B/8015Bm	Extraction SW5030B Spiked Sample ID: 0903236-0064							06A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>f</sup> )	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
0903283-001A	03/11/09 3:00 PM	03/11/09	03/13/09 11:10 PM	0903283-002A	03/11/09 3:10 PM	03/11/09	03/12/09 6:33 PM
0903283-003A	03/11/09 3:20 PM	03/11/09	03/12/09 9:58 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).

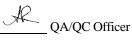
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





#### McCampbell Analytical, Inc. "When Ouality Counts"

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

**QC SUMMARY REPORT FOR 6010C** 

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0903283 EPA Method 6010C Extraction SW3050B BatchID: 41886 Spiked Sample ID 0903157-001A MSD MS-MSD LCS LCSD LCS-LCSD Sample Spiked MS Spiked Acceptance Criteria (%) Analyte MS / MSD % Rec. RPD LCS/LCSD RPD % Rec. % RPD % Rec. % RPD mg/Kg mg/Kg mg/Kg % Rec. 9.9 Lead 50 107 91.9 12.4 10 97.9 96.4 1.49 75 - 125 20 80 - 120 20 104 4.19 %SS: 250 114 110 250 100 102 1.96 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 41886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903283-001A	03/11/09 3:00 PM	03/11/09 )3	/12/09 12:55 PM	0903283-002A	03/11/09 3:10 PM	a 03/11/09 ).	3/12/09 12:57 PM
0903283-003A	03/11/09 3:20 PM	03/11/09 )3	/12/09 12:59 PM				

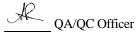
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

N/A = not applicable to this method.

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



## **APPENDIX F**

## Soil Disposal Manifests



#### **GENERATOR WASTE PROFILE SHEET**

			Was	te Profile #
Requested Disposal Facility:	Keller Canyon			
	an Allied Waste Company		AWI Sales Rep:	
I. Generator Informati	ion		Date:	
Generator Name: Steffi Zimme	erman			
Generator Site Address: 3442	Adeline Street			
City: Oakland	County: Alameda	State:	CA	Zip: 94608
State ID/Reg No:	State Approval/Waste Code:		(if applicable)	SIC Code:
Generator Mailing Address (if	different): 3289 Lomas Verdes Plac	ce		
City: Lafayette	County: Contra Costa	State:	CA	Zip: 94549
Generator Contact Name: Kirb	y Fernando			
Phone Number: 925-746-6000	)	Fax No	umber: 925-746-6099	9
Ila. Transporter Informat	tion			
Transporter Name: AEI Consu	Itants	Contac	t Name: Kirby Ferna	indo
Transporter Address: 2500 Ca	mino Diablo #200			
City: Walnut Creek	County: Contra Costa	State:	CA	Zip: 94597
Phone Number: 925-746-6000	Fax Number: 925-746-6099	State <sup>-</sup>	Fransportation Numb	er:
Ilb. Billing Information				
Bill To: AEI Consultants		Conta	ct Name: Kirby Ferna	ando
Billing Address: 2500 Camino	Diablo #200			
City: Walnut Creek	State: CA	Zip: 94	1597 Phone	Number: 925-746-6000
III. Waste Stream Inform	nation			
Name of Waste: Soil				
Process Generating Waste: G	asoline fuel release from former un	derground	storage tank	
Type of Waste	DUSTRIAL PROCESS WASTE	or 🗌	POLLUTION CONTR	ROL WASTE
Physical State: 🛛 🖾 SC	DLID 🗌 SEMI-SOLID 🗌 POWI	DER 🗌		₹::
Method of Shipment: 🛛 🕅 BL	ILK 🗌 DRUM 🗌 BAGGED 🛛		t:	
Estimated Annual Volume:	CUBIC YARDS: 🖂 TO	NS: <u>900</u> [	GALLONS	OTHER:
Frequency: 🛛 ONE TIME		IONTHLY	OTHER:	
Special Handling Instructions:				
IV. Representative Sam				MPLE TAKEN
	ollected to prepare this profile and nee with U.S. EPA 40 CFR 261.20(			□ NO
Sample Date: 3/11/09	Type of Sample: 🛛 COMPOSI	TE SAMP	LE 🗌 GRAB SAMI	PLE
Laboratory: McCampbell Analy	ytical S	ample ID	Numbers: STKC1234	1
Sampler's Employer: AEI Con	sultants		1, 11	
Sampler's Name (printed): Kirl	by Fernando S	ignaturə	AAN	
		7	2-1000	



#### **GENERATOR WASTE PROFILE SHEET (continued)**

Waste Profile #

#### V. Physical Characteristics of Waste

Characteristic Components % by Weight (range)									
1. Soil				10					
2.									
3.									
4.									
5.									
Color	Odor (describe)	Free Liquids	% Solids	pH:	Flash P	oint	Phenol		
Dark Brown	Slight petroleum hydrocarbos	Content%	100	0	$\underline{0} \Box F$		<u>O</u> ppm		
Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile									
	or generating process contain reg								
	in, Heptachlor (and it epoxides),	Lindane, Methoxychlor,	Toxaphene, 2,4-	D, or 2,4,5-TP Si	lvex as	🗌 Ye	es or 🖂 No		
defined in 40 CF		10011							
	or generating process cause it to de as defined in 40 CFR 261.23?		lumits from high	levels of Hydroge	in Sulfide or		es or 🛛 No		
	contain regulated concentrations					Υε	es or 🖾 No		
including RCRA	F-Listed Solvents?					🗌 Ye	es or 🛛 No		
	contain regulated concentrations in 40 CFR 261.31?	of 2,3,7,8-Tetrachlorodit	penzodioxin (2,3,	7,8-TCCD), or an	iy other	Ye	es or 🛛 No		
Is this a regulated	d Toxic Material as defined by F	ederal and/or State regula	ations?			1 Ye	s or 🛛 No		
Is this a regulated	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?								
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?									
Is this waste generated at a Federal Superfund Clean Up Site?									

#### VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Allied Waste.

Kirby Fernando, Project Manager	AEI Consultants	
Authorized Representative Name And Title (Printed)	Company Name 41 09 Date	
VII. Allied Waste Decision		
Approved     Rejected	Expiration:	
Conditions:		
Name, Title	Signature	Date





Democrate d Discourse i Provint	West Caster Caste		Wast	e Profile #
Requested Disposal Facility:	West Contra Costa			
	an Allied Waste Company	AWI Sal	es Rep:	
I. Generator Informat		Date:		
Generator Name: Steffi Zimme	erman			
Generator Site Address: 3442	Adeline Street			· · · · · · · · · · · · · · · · · · ·
City: Oakland	County: Alameda	State: CA		Zip: 94608
State ID/Reg No:	State Approval/Waste Code:		(if applicable)	SIC Code:
Generator Mailing Address (if	different): 3289 Lomas Verdes Plac			
City: Lafayette	County: Contra Costa	State: CA		Zip: 94549
Generator Contact Name: Kirl				
Phone Number: 925-746-6000	D	Fax Number: 92	5-746-6099	
lla. Transporter Informa	tion			
Transporter Name: AEI Consu	ultants	Contact Name:	Kirby Ferna	ndo
Transporter Address: 2500 Ca	amino Diablo #200			
City: Walnut Creek	County: Contra Costa	State: CA		Zip: 94597
Phone Number: 925-746-600	7 Fax Number: 925-746-6099	State Transport	ation Numbe	er:
IIb. Billing Information				
Bill To: AEI Consultants	Contact Name:	Kirby Ferna	ndo	
Billing Address: 2500 Camino	Diablo #200			
City: Walnut Creek	State: CA	Zip: 94597	Phone	Number: 925-746-6000
III. Waste Stream Inform	nation			
Name of Waste: Soil		· · · ·		
Process Generating Waste: G	asoline fuel release from former un	derground storage	tank	
Type of Waste	DUSTRIAL PROCESS WASTE	or POLLUT	ION CONTR	OL WASTE
Physical State: So				· · ·
Method of Shipment: B				
Estimated Annual Volume:		NS: <u>300</u> 🗌 GALLO	ONS	OTHER:
Frequency: ONE TIME				
Special Handling Instructions:				· · · · · · · · · · · · · · · · · · ·
IV. Representative Sam				IPLE TAKEN
Is the representative sample of	collected to prepare this profile and nce with U.S. EPA 40 CFR 261.20(		YES or	
Sample Date: 3/11/09	Type of Sample: 🛛 COMPOSI		GRAB SAMP	Ϋ́LE
Laboratory: McCampbell Ana	lytical Si	ample ID Numbers:	STKA1234	, STKB1234
Sampler's Employer: AEI Cor		0	111	
Sampler's Name (printed): Kin		gnature:	XX	<u> </u>



#### **GENERATOR WASTE PROFILE SHEET (continued)**

Waste Profile #

#### V. Physical Characteristics of Waste

Characteristic Components % by Weight (range)									
1. Soil				100					
2.									
3.									
4.									
5.									
Color	Odor (describe)	Free Liquids	% Solids	pH:	Flash P	oint	Phenol		
Dark Brown	Slight petroleum hydrocarbos	Content%	100	0	$\underline{0} \Box \mathbf{F}$		<u>0</u> ppm		
Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile									
	or generating process contain reg								
	in, Heptachlor (and it epoxides),	Lindane, Methoxychlor,	Toxaphene, 2,4-	D, or 2,4,5-TP Sil	vex as	🗌 Ye	es or 🖂 No		
defined in 40 CF			Karita farma histori		0.161				
	or generating process cause it to de as defined in 40 CFR 261.23?		limits from high	levels of Hydrogen	Suilide of	🗌 Ye	es or 🖾 No		
Does this waste of	contain regulated concentrations	of Polychlorinated Biphe	enyls (PCBs) as d	lefined in 40 CFR	Part 761?	Ye	s or 🛛 No		
including RCRA	contain regulated concentrations F-Listed Solvents?			,		∏ Ye	es or 🛛 No		
	contain regulated concentrations 1 in 40 CFR 261.31?	of 2,3,7,8-Tetrachlorodit	penzodioxin (2,3,	7,8-TCCD), or any	/ other	☐ Ye	es or 🛛 No		
Is this a regulated	d Toxic Material as defined by F	ederal and/or State regula	ations?			Ye	s or 🛛 No		
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?									
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?									
Is this waste gene	erated at a Federal Superfund Cl	ean Up Site?				Ye	es or 🛛 No		

#### VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Allied Waste.

Kirby Fernando, Project Manager	AEI Consultants	
Authorized Representative Name And Title (Printed)	Company Name	_
12 x x	4109	
Authonized Representative Signature	Date	
VII. Allied Waste Decision		
Approved     Rejected	Expiration:	
Conditions:		
Name, Title	Signature	Date



### THIRD PARTY SIGNATURE AUTHORIZATION for Solid Waste Disposal

Date:

25 09

To Whom It May Concern:

Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Authorized Agent	Title
Kirby Fernando	Project Manager
Name of Company	Telephone Number
AEI Consultants	925-746-6000

The above broker/individual is authorized to act as our authorized agent for the following purposes:

X Complete and sign Generator Waste Profile Sheets.

X Complete and sign Generator Waste Profile Sheet-Recertifications.

X Authorize amendments to Generator Waste Profile Sheets.



Sign contracts to dispose and/or transport material.

X Sign certifications necessary to comply with landfill requirements.

X Sign manifests to initiate shipment to disposal facilities.

Our authorized broker/agent will notify us prior to any action stated above, and will provide us with copies of any documents bearing our name.

Title Owner
Mailing Address 1740 RELIEZ VLY. Rd.
Telephone Number LAF. CA. 94549
925-457-5607

Sanitary Landfill         Landfill           901 Bailey Road         28972 Coffin Butte Road           Pittsburg, CA 94565         Corvallis, OR 97330           Phone (925) 458-9800         Phone (541) 745-2018           Fax (925) 458-9891         Fax (541) 745-3826	Ox Mounta Sanitary La 12310 San Mate Half Moon Bay, C Phone (650) 726-91 Fax (650) 726-91	andfill o Road CA 94019 1-1819 183	Sani 1601 E Milpita Phone Fax (40	<b>by Island</b> <b>tary Landfill</b> Dixon Landing Road s, CA 95035 (408) 945-2800 D8) 262-2871	Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009
		SIE MAN	Irtsi	· .	
GENERATOR		-	W	ASTE ACCEPTAI	VCE NO.
MAILING ADDRESS	ć	- <u></u>	294		
CITY, STATE, ZIP				SONAL PROTEC	
Lifeworthe 1 & A454A					-
PHONE A THUE WERE	······			· · · · · · · · · · · · · · · · · · ·	
CONTACT PERSON				FETY VEST	· · ·
SIGNATURE OF AUTHORIZED AGENT / TITLE			HANDLI	NG PROCEDURES:	
	DATE	-			
*LANN NOT	HIM M				
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as definid by 40 GFR Part 261 or title 22 of the California code of regulations described, classified and packaged, and is in proper condition for transportation arc regulations; AND, If the waste is a treatment residue of a previously restricted if subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261. WASTE TYPE:	a, has been properly cording to applicable tezerdous waste	RECEIVIN	G FACIL	ITY	
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

D	Keller	Canyon	

**Sanitary Landfill** 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

## Coffin Butte

Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

## Ox Mountain

Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183 Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

#### NON-HAZARDOUS WASTE MANIFEST

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MANIFEST #

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Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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# Coffin Butte

Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

# Ox Mountain

Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

□ Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

## NON-HAZARDOUS WASTE MANIFEST

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TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. MANIFEST # 100138

Canyon Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565. Phone (925) 458-9800

Fax (925) 458-9891

Coffin Butte Landfill

28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

Ox Mountain Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

□ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

#### **NON-HAZARDOUS WASTE MANIFEST**

WASTE ACCEPTANCE NO.
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## C Keller Canyon

#### Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

### Coffin Butte

Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

#### Ox Mountain Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819

□ Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

□ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

## Fax (650) 726-9183 NON-HAZARDOUS WASTE MANIFEST

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Keller Canyon	Coffin Butte	Ox Mountain
Sanitary Landfill	Landfill	Sanitary Landfill
901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800	28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018	12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650)-726-1819

Fax (541) 745-3826

Fax (925) 458-9891

au

## Newby Island Sanitary Landfill 1601 Dixon Landing Road

Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

### Forward Landfill 9999 S. Austin Road

Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

-3826	Fa	x (650) 726-	9183	Fax (
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GENERATOR		WA	STE ACCEPTAN	CE NO.
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(925) 746-633)	<u> </u>		ETY VEST	
CONTACT PERSON Steffi Zimprerman			IG PROCEDURES:	
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Keller CanyonCoffin ButteSanitary LandfillLandfill901 Bailey Road28972 Coffin Butte RoadPittsburg, CA 94565Corvallis, OR 97330Phone (925) 458-9800Phone (541) 745-2018Fax (925) 458-9891Fax (541) 745-3826	Ox Mounta Sanitary La 12310 San Mate Half Moon Bay, Phone (650) 726 Fax (650) 726-9	ndfill to Road CA 94019 -1819	-	<b>/ Landfill</b> Landing Road A 95035 ) 945-2800	Forward Landfill 9999 S. Austin Ro Manteca, CA 9533 Phone (209) 982-4 Fax (209) 982-100
NON-HAZ	ARDOUS WA	STE MANIF	EST		
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Steffi Zimmerman MAILING ADDRESS					
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GENERATOR SCERTIFICATION: I hereby certify that the above named material waste as defined by 40 CFR Part 261 or title 22 of the California code of regulation described, classified and packaged, and is in proper condition for transportation a regulations; AND, If the waste is a treatment residue of a previously restricted	ns, has been properly				
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MANIFEST # 713663

Keller	Canyon		Coffir
Sanita	ry Landfill	•	Land

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

#### Coffin Butte Landfill

28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

### Ox Mountain Sanitary Landfill

12310 San Mateo Road Haif Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

## Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871 Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

## NON-HAZARDOUS WASTE MANIFEST

GENERATOR Steffi Zimmerman	· · · · · · · · · · · · · · · · · · ·	AW	STE ACCEPTAN	CE NO.
MAILING ADDRESS			11/20/20	<u>\</u>
3289 Laynas Verdes Flace			$-212Y_{2}$	13111
CITY, STATE, ZIP		REQUIRED PERS	<b>SONAL PROTECT</b>	IVE EQUIPMENT
Lafayette,CA 94549				
PHONE			and the second second second	
<u>(925)</u> 746-000 CONTACT PERSON			ETY VEST	
Steffi Zimmermen		SPECIAL HANDLIN	G PROCEDURES:	
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE			
*				
GENERATOR'S CERTIFICATION: I hereby certily that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations described, classified and packaged, and is in proper condition for transportation arc regulations; AND, if the waste is a treatment residue of a previously restricted subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 251.	s, has been properly cording to applicable hazardous waste		ГҮ	
				· · · · · · · ·
CONSTRUCTION     WOOD     DEBRIS     OTHER     SPECIAL WASTE				
GENERATING FACILITY				
3442 Adeline Street QAI	JAND			
PANOPOPTÉS				
RANSPORTÊR	<u> </u>	NOTES: VEHICLE L		TRUCK NUMBER
AEI Consultanta ADDRESS		1939	2551-11	JV ZI
2500 Camino Disblo Suite 200				
CITY, STATE, ZIP		ANA M	1 NEIM	RH
Walnut Credt, CA 94597	an an guarante a	S. P.L.	1 The MO	
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(925) 544-2599 SIGNATURE OF AUTHORIZED AGENT OR DRIVER	DATE			
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Sanitary LandfillLandfill901 Bailey Road28972 Coffin Butte RoadPittsburg, CA 94565Corvallis, OR 97330Phone (925) 458-9800Phone (541) 745-2018Fax (925) 458-9891Fax (541) 745-3826	Sanitary La 12310 San Mate Half Moon Bay, ( Phone (650) 726 Fax (650) 726-91	o Road CA 94019 -1819	1601 Dix Milpitas, Phone (4	Ary Landfill con Landing Road CA 95035 108) 945-2800 ) 262-2871	999 Mar Pho	ndfill 9 S. Austin Roz nteca, CA 9533 ne (209) 982-43 (209) 982-1009
NON-HAZ	ARDOUS WA	STE MANIF	EST			
GENERATOR	· · · ·		WAS	TE ACCEPTA	NCE NO	Э.
Steffi Zimmermen MAILING ADDRESS	· · · ·				78829	
SLOV LARIAS V Crúce Pisoc				212\	· · · ·	
CITY, STATE, ZIP Lafayette, CA 94549				ONAL PROTEC		
PHONE					RATOR	HARD H
(925) 746-6000 CONTACT PERSON				ETY VEST		***
Steffi Zimmerman	·····	SPECIAL H	ANDLING	PROCEDURES	<b>}:</b>	
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE					
GENERATOR'S CENTIFICATION: I hereby certify that the above named material waste as defined by 40 CFR Part 261 or title 22 of the California code of regulation described, classified and packaged, and is in proper condition for transportation a regulations; AND, if the waste is a treatment residue of a previously restricted subject to the Land Disposal Restrictions. Leartify and warrant that the waste has t	is, has been properly cording to applicable hazardous waste	RECEIVING		~		
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IRANSPORTÊR AEI Consultante		NOTES: VE	EHICLE LI		TRU	CK NUMBER
ADDRESS		1 L	<u>9A9</u>	4037	<u> </u>	51
2500 Camino Diablo Suite 200 CITY, STATE, ZIP Walnut Creek,CA 94597						
PHONE		END DUN	ΛP	BOTTOM DUN	MP	TRANSFER
(923) 944-2899 SIGNATURE OF AUTHORIZED AGENT OR DRIVER	DATE	ROLL-OFF			VAN	
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Keller	Canyon	
	-	

#### Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

TO

# Coffin Butte

Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

# Ox Mountain

Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

#### Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

□ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

## **NON-HAZARDOUS WASTE MANIFEST**

GENERATOR	WASTE ACCEPTANCE NO.
Steffi Zimmerman MAILING ADDRESS	
MAILING ADDRESS 3289 Lavnae Verdes Place	<u> </u>
CITY, STATE, ZIP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT
Lafayette, CA 94549	291.02
PHONE	
(925) 746-6000	CI TY-VEK CI ŠAFETY VEST
CONTACT PERSON Steffi Zimmerman	SPECIAL HANDLING PROCEDURES:
SIGNATURE OF AUTHORIZED AGENT / TITLE DATE	
* Ker A X and a Mar	09
GENERATOR'S GERTIFICATION: I hereby certify that the above named material is not a hazardou waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been prog- described, classified and packaged, and is in proper condition for transportation a cording to applic	
subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in a accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as define 40 CFR Part 261.	ed by RECEIVING FACILITY
WASTE TYPE:	
GENERATING FACILITY	
3442 Adeline Breet CARLAND	
(RANSPORTER	NOTES: VEHICLE LICENSE NUMBER TRUCK NUMBER
AEI Consultants	- 1204190 1 =1
ADDRESS	
2500 Camino Diablo Suite 200 CITY, STATE, ZIP	
Walnut Credt, CA 94597	
PHONE	
(925) 944-2899 / /	END DUMP BOTTOM DUMP TRANSFER
(925) 944-2899 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE	
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Keller CanyonCoffin ButteOx MountaSanitary LandfillLandfillSanitary La901 Bailey Road28972 Coffin Butte Road12310 San MatePittsburg, CA 94565Corvallis, OR 97330Half Moon Bay,Phone (925) 458-9800Phone (541) 745-2018Phone (650) 726Fax (925) 458-9891Fax (541) 745-3826Fax (650) 726-9	eo Road CA 94019	1601 Dixor Milpitas, C	<b>y Landfill</b> 1 Landing Road A 95035 3) 945-2800	<b>La</b> i 999 Mar Pho	rward ndfill 9 S. Austin R nteca, CA 95: ne (209) 982- (209) 982-10
NON-HAZARDOUS WA	STE MANIF	EST			
GENERATOR		WAST	E ACCEPTAN	ICE NO	Э.
Steffi Zimmerman MAILING ADDRESS			<u></u>	Q-73 89	<b>P</b>
3289 Lonnas Verdes Flace			-212X	931	11.
CITY, STATE, ZIP Lafayette, CA. 94549			NAL PROTEC		
PHONE		C GOGG	and a second second	ATOR	GHARD
(925) 745-6333 CONTACT PERSON		D ŠAFET	Y VEST		
Stein Zinenennen	SPECIAL HA	NDLING	PROCEDURES:	•	: 5-1.
SIGNATURE OF AUTHORIZED AGENT / TITLE DATE				Â	
* 14 18					
GENERATOR'S CERTIFICATION: I hereby carlily that the above named material is not a hazardous waste as defined by 40-CFR Part 261 or tille 22 of the California code of regulations, has been properly describéd, classified and packaged, and is in proper condition for transportation a cording to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste					
subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 251.	RECEIVING I	FACILITY			
WASTE TYPE:		· -	· · ·	1	
DISPOSAL     D SLUDGE     ONSTRUCTION     WOOD		· · ·			· · · · ·
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ADDRESS		<u>7 A 9</u>	4037		
ADDRESS 2500 Camino Diablo Suite 200 CITY, STATE, ZIP		<u>7 A 9</u>	4037		
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ADDRESS 2500 Camino Diablo Buite 200 CITY, STATE, ZIP Wahus Creck,CA 94597 PHONE (925) 944-2899		9 <i>A</i> 9 P	<u>4037</u> воттом Dum	77 [	3 / TRANSFE
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ADDRESS 250) Canino Diablo Juite 200 CITY, STATE, ZIP Wahus Creek,CA 94597 PHONE (925) 944-2859		9 <i>A</i> 9 P	<u>4037</u> воттом Dum	P VAN	TRANSFE
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ADDRESS 2500 Cammo Diablo Suite 200 CITY, STATE, ZIP Wahus Creds,CA 94597 PHONE (925) 944-2859 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		7 <i>A</i> 9 P (S) S	HO37	P VAN	TRANSFE
ADDRESS 2500 Camino Diablo Suite 200 CITY, STATE, ZIP Wahat Credt, CA 94597 PHONE (925) 944-2899 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		9 A 9 P (S) S THOD: (	HO37	P VAN	TRANSFE
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ADDRESS 2500 Camino Diablo Suite 200 CITY, STATE, ZIP Wahat Creck, CA 94597 PHONE (925) 944-2859 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE (925) 944-2859 II hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.  ACILITY TICKET NUMBER		P (S) S THOD: ( CTION BLE	HO37	P VAN	TRANSFE
ADDRESS 2500 Camino Diablo Suite 200 CITY, STATE, ZIP Wahns Creek,CA 94597 PHONE (925) 944-2899 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE (925) 944-2899 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. REMARKS ACILITY TICKET NUMBER	END DUM END DUM SI ROLL-OFF( CUBIC YARDS DISPOSAL MET DISPOSAL MET	P (S) S THOD: ( CTION BLE	HO37	P VAN	TRANSFE

## Keller Canyon

#### Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

SC TO

# Coffin Butte

28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

### Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

## Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871 Forward Landfill 9999 S. Austin Road

Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

## **NON-HAZARDOUS WASTE MANIFEST**

GENERATOR	WASTE ACCEPTANCE NO.
Steffi Zimmerman	
MAILING ADDRESS	- 212Y93777
3289 Lonais Verdes Place	
CITY, STATE, ZIP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT
Lafwette,CA 94549 PHONE	GLOVES GOGGLES GRESPIRATOR HARD HAT
the second	
CONTACT PERSON	OTY-VEK O SAFETY VEST
Steffi Zimmerman	SPECIAL HANDLING PROCEDURES:
SIGNATURE OF AUTHORIZED AGENT / TITLE	🕇 shanan a shekara shekara 🖉 balan a bash
* 1/21/0	1
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation a cording to applicable regulations; AND, If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I cortify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by	RECEIVING FACILITY
40 CFH Pan 261.	
WASTE TYPE:	
O SPECIAL WASTE	
GENERATING FACILITY	
3442 Adeline Street OAKLAND	
RANSPORTER	a na serie de la contra a participar de la construcción de la construcción de la construcción de la construcción La construcción de la construcción d
AEI Consultanta	NOTES: VEHICLE LICENSE NUMBER TRUCK NUMBER
ADDRESS	- 4B42551 NV 2/
2500 Camino Diablo Suite 200	
CITY, STATE, ZIP	- ANAM EVADE
Walnut Creek, CA 94597	
PHONE	END DUMP BOTTOM DUMP TRANSFER
(925) 944-2899	
SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE	ROLL-OFF(S) FLAT-BED VAN DRUMS
* AD 4.240	
	CUBIC YARDS
I hereby certify that the above named material has been	
accepted and to the best of my knowledge the foregoing	DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)
is true and accurate.	
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HEMARKS	
FACILITY TICKET NUMBER	U NON-FRIABLE
SIGNATURE OF AUTHORIZED AGENT	ASBESTOS
DATE	
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EDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXP	
REFUSAL UPON ARHIVAL. ONGOING DAILY DELIVERIES MUST	BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.
SALES COP	MANIFEST # 71 3669

Sanitary LandfillLandfill901 Bailey Road28972 Coffin Butte RoadPittsburg, CA 94565Corvallis, OR 97330Phone (925) 458-9800Phone (541) 745-2018	Ox Mountai Sanitary Lau 12310 San Mater Half Moon Bay, C Phone (650) 726- Fax (650) 726-91	ndfill Road XA 94019 1819	<b>Sanita</b> 1601 Dix Milpitas, Phone (4	y Island ary Landfill con Landing Road CA 95035 408) 945-2800 ) 262-2871	9999 Man Phor	ward hdfill S. Austin Road teca, CA 95336 ne (209) 982-4298 (209) 982-1009
NON-HAZA	RDOUS WAS	STE MANI	FEST			
GENERATOR			WAS	TE ACCEPTA	NCE NO	
Steffi Zimmermen MAILING ADDRESS		· · · ·				
3289 Lomas Verdes Place	· · · ·			-212		4 1 4 4
CITY, STATE, ZIP Lafayette,CA, 94549	· ·	1		ONAL PROTEC		······································
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GENÉRATOR'S CERTIFICATION: I hereby certify that the above named material is waste as delined by 40 CFR Part 261 or title 22 of the California code of regulations described, classified and nakanad, and is in proper condition to transportation a co-	not a hazardous , has been properly					4
described, classified and packaged, and is in proper condition for transportation a c regulations; AND, if the waste is a treatment residue of a previously restricted h subject to the Land Disposal Restrictions, I certify and warrant that the waste has be	en treatert in	RECEIVING		V.		
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Walnux Crosk, CA 94597 PHONE		END DU	MP	BOTTOM DU	MP 👘	TRANSFER
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#### Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

## Coffin Butte

Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826

# Ox Mountain

Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

### □ Newby Island **Sanitary Landfill**

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill 9999 S. Austin Road Manteca, CA 95336

Phone (209) 982-4298 Fax (209) 982-1009

## NON-HAZARDOUS WASTE MANIFEST

						•••
GENERATOR Steffi Zimmerman		-	WAS	TE ACCEPT/	ANCE NO	).
MAILING ADDRESS			· · · ·	<u> </u>	0027	59 89
5289 Lanas Verdes Place	· · ·			-212	1737	$U_{1} = 0$
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Lafayette,CA 94549	÷				PIRATOR	O HARD H
PHONE (925) 746-6300				TY VEST		
CONTACT PERSON					le le le le le le le le le le le le le l	
Steffi Zinnverman		SPECIAL HA	ANDLING	PROCEDURE	S:	
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE					
*MAX	N 19				· · · · · · · · · · · · · · · · · · ·	
GENERATOR'S CENTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulation described, classified and packaged, and is in proper condition for transportation a regulations; AND, if the waste is a treatment residue of a previously restricted	ns, has been properly cording to applicable					
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Keller Canyon       Coffin Butte       Ox Mounta         Sanitary Landfill       Landfill       Sanitary La         901 Bailey Road       28972 Coffin Butte Road       12310 San Mate         Pittsburg, CA 94565       Corvallis, OR 97330       Half Moon Bay, O         Phone (925) 458-9800       Phone (541) 745-2018       Phone (650) 726         Fax (925) 458-9891       Fax (541) 745-3826       Fax (650) 726-91	Andfill         Sanitary Landfill         Landfill           o Road         1601 Dixon Landing Road         9999 S. Austin Road           oA 94019         Milpitas, CA 95035         Manteca, CA 95336           -1819         Phone (408) 945-2800         Phone (209) 982-429           83         Fax (408) 262-2871         Fax (209) 982-1009
GENERATOR	
a hard for the second second	WASTE ACCEPTANCE NO.
MAILING ADDRESS	A
13279 Lomas Verdas 11	1 2449 -3177
CITY, STATE, ZIP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT
PHONE	
And This hade	
CONTACT PERSON	SPECIAL HANDLING PROCEDURES:
SIGNATURE OF AUTHORIZED AGENT / TITLE	
SIGNATURE OF AUTHORIZED AGENT/TITLE DATE	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation a cording to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.	RECEIVING FACILITY
WASTE TYPE:	
DISPOSAL     DISPOSAL       CONSTRUCTION     DWOOD       DEBRIS     OTHER       SPECIAL WASTE     OTHER	
GENERATING FACILITY	
3442 ADALE St. OALL &	
TRANSPORTER L. TARANGO TKG.	NOTES: VEHICLE LICENSE NUMBER TRUCK NUMBER
	THORE LICENSE NUMBER THORE NUMBER
ADDRESS Dox 1117	9A94037 6TT 131
CITY, STATE, ZIP 1, 7573 JACG . CA. 94565	
PHONE (725) 759-2107	END DUMP BOTTOM DUMP TRANSFER
SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE	ROLL-OFF(S) FLAT-BED VAN DRUMS
* John Short 4-24-09	

		CUBIC YARDS		· · · · · · · · · · · · · · · · · · ·
I hereby certify that the above named material accepted and to the best of my knowledge the	has been		20	
is true and accurate.	iniegonig	DISPOSAL METHOD:	(TO BE COMPLETED	BY LANDFILL)
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST #1 001 34

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	Sanitary Landfill         Landfill           901 Bailey Road         28972 Coffin Butte Road           Pittsburg, CA 94565         Corvallis, OR 97330           Phone (925) 458-9800         Phone (541) 745-2018           Fax (925) 458-9891         Fax (541) 745-3826	Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183	Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871
	NON-H	AZARDOUS WASTE MA	NIFEST
	GENERATOR		MAATE AAAPRTANA
	Staffi Zimanymin		WASTE ACCEPTANC
	MAILING ADDRESS		
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	Q255 746 4000		K 🖸 SAFETY VEST
	CONTACT PERSON		
	King terminal	SPECIA	L HANDLING PROCEDURES:

Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

GENERATOR Staff, Zimourne		WA	STE ACCEPTANC	E NO.
MAILING ADDRESS		ک <sup>ری</sup>		
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. MANIFEST # 100135

Page 1 of 2 4/29/2009 2:00PM User ID: CARICCP (a) (a)

West Contra Costa Sanitary Landfill, Inc.

#### Customer/Material Report

Transactions from 04/15/2009 through 04/29/2009 Inbound and Outbound Tickets Third Party and Intercompany Customers Recycle and Disposal Waste Full Details

Ticket	Date	Truck	In / Out	Yards	Units	Tons	Estimated Tons	Tax	Rate	Disposal Amount	Ana
00164 - ALI	. ENVIROM	ENTAL/AEI COI	SULTANTS							ğan 1941 yılın iş birinin sonoti sonoti sonoti ini ini ini ini ini ini ini ini ini i	
0109 - Dirt	- Tons										
116395;	04/22/09	519C38429	ł	0.00	0.00	16.36	0.00	\$0.00	\$18.00	\$294.48	\$294
116398:	04/22/09	519A94037	I	0.00	0.00	17.75	0.00	\$0.00	\$18.00	\$319.50	\$319
116400-	1 04/22/09	519B42551	I	0.00	0.00	17.70	0.00	\$0,00	\$18.00	\$318.60	\$313
1164012	04/22/09	519A02156	1	0.00	0.00	19.22	0.00	\$0.00	\$18.00	\$345.96	\$34
1164013	8 04/22/09	519D80995	I	0.00	0.00	19.93	0.00	\$0.00	\$18.00	\$358.74	\$35
1164046	6 04/22/09	518L18026	I	0.00	0.00	19.83	0.00	\$0.00	\$18.00	\$356.94	\$35
1164051	04/22/09	519C38429	1	0.00	0.00	18.13	0.00	50.00	\$18.00	\$326.34	\$32
1164080	0 04/22/09	519B42551	1	0.00	0.00	17.91	0.00	\$0.00	\$18.00	\$322.38	\$32
1164099	04/22/09	519A94037	1	0.00	0.00	16.69	0.00	\$0.00	\$18.00	\$300.42	\$30
1164130	6 04/22/09	519A02156	I	0,00	0.00	20.49	0.00	\$0.00	\$18.00	\$368.82	\$36
1164147	04/22/09	519D80995	1	0.00	0.00	19.86	0.00	\$0.00	\$18.00	\$357.48	\$35
1164163	04/22/09	518L18026	1	0.00	0.00	19.59	0.00	\$0.00	\$18.00	\$352.62	\$35
1164189	04/22/09	519C38429	I	0.00	0.00	- 17.36	0.00	\$0.00	\$18.00	\$312.48	\$31
1164225	04/22/09	519B42551	1	0.00	0.00	17.37	0.00	\$0.00	\$18.00	\$312.65	\$31
1164240	04/22/09	519A94037	I	0.00	0.00	17.78	0.00	<b>\$</b> 0.00	\$18.00	\$320.04	\$3:
1164262	04/22/09	519A02156	I	0.00	0.00	20.55	0.00	\$0.00	\$18.00	\$369.90	\$36
1164284	04/22/09	519D80995	I	0.00	0.00	17.95	0.00	\$0.00	\$18.00	\$323.10	\$3;
164298	04/22/09	518L18026	1	0.00	0.00	19.58	0.00	\$0.00	\$18.00	\$352.44	\$3:
4315ئر	04/22/09	519C38429	I	0.00	0.00	18.39	0.00	\$0.00	\$18.00	\$331.02	\$3
1164322	04/22/09	519B42551	I	0.00	0.00	14.54	0.00	\$0.00	\$18.00	\$261.72	\$2
1164333	04/22/09	519A94037	I	0.00	0.00	16.60	0.00	<b>\$</b> 0.00	\$18.00	\$298.80	\$25
1164379	04/22/09	519A02156	ι.	0.00	0.00	17.96	0.00	\$0.00	\$18.00	\$323.28	\$3
1164385	04/22/09	519D80995	1	0.00	0.00	16.81	0.00	\$0,00	\$18.00	\$302.58	\$3
1164400	04/22/09	518L18026	I	0.00	0.00	18.74	0.00	\$0.00	\$18.00	\$337.32	\$3.
1164411	04/22/09	519C38429	t	0.00	0.00	17.86	0.00	\$0.00	\$18.00	\$321.48	\$33
164 - ALL	ENVIROME	NTAL/AEI CON	SULTANTS								
109 - Dirt -	Tons										
1164427	04/22/09	519B42551	I	0.00	0.00	18.49	0.00	\$0.00	518.00	\$332.82	533
1164443	04/22/09	519A94037	I	0.00	0.00	19.94	.0.00	<b>\$0,00</b>	\$18.00	\$358.92	\$35
1164458	04/22/09	519D80995	I	0.00	0.00	17.81	0.00	\$0.00	\$18.00	\$320.58	\$33
1164472	04/22/09	519A02156	1	0.00	0.00	17.40	0.00	\$0.00	\$18.00	\$313.20	\$31
1164483	04/22/09	518L18026	I	0.00	0.00	20.65	0.00	\$0.00	\$18.00	\$371.70	\$3
1164617	04/23/09	519C38429	I	0.00	0.00	19.70	0.00	\$0.00	518.00	\$354.60	\$35
1164628	04/23/09	519A94037	1	0.00	0.00	17.66	0.00	\$0.00	\$18,00	\$317.88	\$31
1164638	04/23/09	519B42551	1	0.00	0.00	16.47	0.00	\$0.00	518.00	\$296.46	\$29
1164647	04/23/09	518L18026	1	0.00	0.00	17.65	0.00	\$0.00	\$18.00	\$317.70	\$31
1164690	04/23/09	519C38429	1	0.00	0.00	17.68	0.00	\$0.00	\$18.00	\$318.24	\$31
1164713	04/23/09	519A94037	I	0.00	0.00	17.02	0.00	\$0.00	\$18.00	\$306.36	\$3(
1164716	04/23/09	519B42551	I	0.00	0.00	17.47	0.00	\$0.00	\$18.00	\$314.46	\$3)
1164728	04/23/09	518L18026	I	0.00	0.00	18.68	0.00	\$0.00	\$18.00	\$336.24	\$33
1164799	04/23/09	519C38429	1	0.00	0,00	18.51	0.00	\$0.00	\$18.00	\$333.18	\$33
1164831	04/23/09	519A94037	I	0.00	0.00	17.55	0.00	\$0,00	\$18.00	\$315.90	\$31
1164843	04/23/09	519842551	1	0.00	0.00	17.74	0.00	\$0.00	\$18.00	\$319.32	\$31
09 - Dirt -	Tors			0.00	0.00	745.37	0.00	\$0.00	-	\$13,416.66	\$13,41
tickets and 41				0.00	0.00	1.17.17.1	0.00	.00.00		313,410.00	312,41
164 - ALL 		NTAL/AEI CON	SULTANTS	0.00	0.00	745,37	0.00	\$0.00	-	\$13,416.66	\$13,41
ort Gran	d Totals			0.00	0.00	745.37	0.00	\$0.00	-	\$13,416.66	\$13,41
	transactions								-	·····	

RpRSC\*tWs.rpt

Cus. 5100164 Site ID: RI51

## **APPENDIX G**

**Backfill Casing Water Analyses** 

McCampbell An "When Quality		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled: 03/27/09					
2500 Camino Diablo, Ste. #200			Date Received:	03/27/09				
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	03/30/09				
Wallat Crock, Cri 91897	Client P.O.: #WC081473		Date Completed:	03/30/09				

#### WorkOrder: 0903702

March 30, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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			villow Pass ourg, CA 9											TURN AROUND TIME						Ę	)											
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Report To: Rober	t Flory		B	ill To	: san	le		P	<b>O</b> . #	ŧW	C08	147	3	EL	TR	equ	meu	_	naly	_	_		<u> </u>	140	-	_		0	ther		Con	ments
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	amino Dial	olo							2						sel	1664			ca G													
Walnut Creek, CA 94597         E-Mail:rflory@aeiconsultants.com           Tele: (925) 746-6000         Fax: (925) 746-6099									_		-Multi-range w silica gel	Ads			Sili				8310													
Tele: (925) 746-6	000			4								-	_	8015)	w si	Sel	(1.8)		/M (S				0/8									
Project #: 281939 Project Name:Zimmerman Project Location:3442 Adeline Street, Oakland, CA								_	+	nge	lis//	IS (4)		8015	~			827														
	1 40	e Street	akland,	CA									-	2/80	Iti-ra	riav	urbon		MO /	NL			525 /			010						
Sampler Signatur	e: The		m							T	MET	HOI	0	18 (60	-Wu	Mate	Iroca		002/Q/D	3's O		00	PA (	0		9.2/6						
	//	SAMP	LING	90	lers		MA	TR	IX		RESI			as Gas (602/8020	015)	Hexane Extractable Materia w/sil gel EPA 1664	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020) TPH Multi-Range (G/D/MO 8015) w/ Silica Gel	EPA 608 / 8080 PCB's ONLY		EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA 625 / 8270 /	CAM-17 Metals 6020		Lead (7240/7421/239.2/6010)						
SAMPLE ID	LOCUTION			ner	ıtair									Hd.L	el (8)	tract	leur		-Ran	8080	8260	8270	VA's	Actal	etals	0/742						
(Field Point Name)	LOCATION	Date	Time	Containers	Col	L.			8			5	-	X&	Dies	le Ex	Petro	1 0	Multi	08 /	524 /	525 /	s / P	-17 N	5 M	(7240						
				# Co	Type Containers	Water	Soil	Air	Sludge	le	HCI	HNO <sub>3</sub>	Other	MBTEX &	[PH as Diesel (8015)	lexar	Total Petroleum Hy		THA PH P	PA (	EPA 624 / 8260	PA (	AH	AM	<b>CUFT 5 Metals</b>	,cad	RCI					
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Relinquished By:		Date:	Time:	Rece	ived B	y:				ICE/t <sup>o</sup> VCS 6.1 PRESERVATION GOOD CONDITION / PRESERVATION HEAD SPACE ABSENT / CONTAINERS / DECHLORINATED IN LAB PERSERVED IN LAB																						
Relinquished By:		Date:	Time:	Rece	ived B	v:				_	_		-	H D	ECH	ILO	ACE	AL	ED IN	LA	BA	4	PE	RSF	RV	ED	INI	AB V	CU			
reconquisited by:			Time.	mut	inca D																-	1.1										

1534 Willow Pass Rd Pittsburg, CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090370	02 Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	II to:		Rec	quested TAT:	1 day
Robert Flory	Email:	rflory@aeiconsul	tants.com		Denise Mod	kel			
AEI Consultants	CC:				AEI Consult	ants			
2500 Camino Diablo, Ste. #200	PO:	#WC081473			2500 Camir	no Diablo, Ste. #20	)0 Dat	te Received:	03/27/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	erman		Walnut Cree	ek, CA 94597	Dat	te Printed:	03/30/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	۱		
						Deguasted Tests	(See legend b	a a la wi	

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
0903702-001	BF-1	Water	3/27/2009 9:00	А	Α										

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3		
8		

4	
9	

5			
10			

#### Prepared by: Samantha Arbuckle

#### **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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	nd Time Received:	03/27/09 9	:07:53 PM
Project Name:	#281939; Zimmer	man				Check	list completed and r	eviewed by:	Samantha Arbuckle
WorkOrder N°:	0903702	Matrix <u>N</u>	Vater			Carrier	: <u>Client Drop-In</u>		
			<u>Chain</u>	of Cu	stody (C	OC) Informa	tion		
Chain of custody	present?			Yes	✓	No 🗆			
Chain of custody	signed when relinqui	shed and r	received?	Yes	✓	No 🗆			
Chain of custody	agrees with sample l	abels?		Yes		No 🗌			
Sample IDs noted	by Client on COC?			Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ient on CO	C?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?			Yes		No 🗆			
			Sa	mple	Receipt	Information			
Custody seals int	tact on shipping conta	iner/cooler	?	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good cond	lition?		Yes	✓	No 🗆			
Samples in prope	er containers/bottles?			Yes		No 🗆			
Sample containe	rs intact?			Yes	✓	No 🗆			
Sufficient sample	volume for indicated	test?		Yes		No 🗌			
		<u>Sam</u>	ple Preser	vation	and Ho	ld Time (HT)	Information		
All samples recei	ved within holding time	e?		Yes		No 🗌			
Container/Temp E	Blank temperature			Coole	r Temp:	6.1°C		NA 🗆	
Water - VOA vial	s have zero headspa	ce / no bub	obles?	Yes		No 🗆	No VOA vials subm	itted	
Sample labels ch	necked for correct pres	servation?		Yes	✓	No 🗌			
TTLC Metal - pH	acceptable upon recei	ipt (pH<2)?		Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No 🗆			
			(Ісе Туре	: WE	TICE	)			
* NOTE: If the "N	lo" box is checked, se	ee commer	nts below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell Anal en Ouality Cour			Web: www.mcca	mpbell.com	Pittsburg, CA 9456 E-mail: main@mcc 52 Fax: 925-252-	ampbell.com							
AEI Co	nsultants		Client Project ID	: #281939;	Zimmerman	Date Sa	ampled: 03/2	27/09							
<b>25</b> 00 G						Date R	eceived: 03/2	27/09							
2500 Ca	mino Diablo, Ste. #2	200	Client Contact:	Robert Flor	v	Date E	xtracted: 03/3	30/09							
Walnut	Creek, CA 94597		Client P.O.: #W		<i>.</i>		nalyzed 03/30/09								
		oline Rong		olatile Hydrocarbons as Gasoline with BTEX and MTBE*											
Extraction n	nethod SW5030B	onne Kang			V8021B/8015Bm				ler: 090	3702					
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS					
001A	BF-1	w	19,000,d1	ND<250	890	27	460	1200	50	106					
	ng Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	μ	g/L					
	ns not detected at or the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg	g/Kg					

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant





"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	D. Sample Matrix: Water QC Matrix:							ID: 42329		WorkC	Order: 09037	02
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B					s	Spiked San	nple ID	: 0903693-0	03A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>£</sup>	ND	60	108	97.8	9.96	104	108	3.09	70 - 130	20	70 - 130	20
MTBE	ND	10	107	103	4.15	96.6	92.6	4.19	70 - 130	20	70 - 130	20
Benzene	ND	10	98.4	98.5	0.0780	88.7	93.1	4.90	70 - 130	20	70 - 130	20
Toluene	ND	10	109	110	1.00	91.8	95.3	3.83	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	110	109	0.818	92.9	96.9	4.23	70 - 130	20	70 - 130	20
Xylenes	ND	30	119	122	2.53	107	111	3.80	70 - 130	20	70 - 130	20
%SS:	93	10	87	91	3.89	98	101	3.06	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

			<u>BATCH 42329 SL</u>	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903702-001A	03/27/09 9:00 AM	03/30/09	03/30/09 4:07 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.



When Ouality		Web: www.mce	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	); Zimmerman	Date Sampled:	06/17/09
2500 Camino Diablo, Ste. #200			Date Received:	06/17/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	06/22/09
Wundt Creek, CIT 94397	Client P.O.: #WC081729		Date Completed:	06/19/09

#### WorkOrder: 0906533

June 22, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#281939; Zimmerman**,
- 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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

	McCAN ne: (925) 25	1534 V Pitts	Villow Pass burg, CA 9	s Road 94565	I	ax:			52-9	926	9							RO	UN	D	TIN Yes	1E			JS J USE No	I	24 I		Ę	COF		2 HR	5 DA
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	Camino Dial													-	1	BCI 166	5			Silica (													
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Tele: (925) 746-60	000			ax: (						_				80155		w S N	100			) w/				0/8									
Project #: 281939				rojec	t Nai	ne:/	Lim	mei	ma	n				- +		unge	The P	t o	0	801				827								1	
Project Location:	- 11	e Street, (	Dakland,	CA										(602/8020		EI-II			802	9	NF			25/			010						
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	1	SAMP	LING		LS		MA	TR	IX				HOD	on C	4	- (c	Toda -	0	PA 6	0	CB'		SVC	y EP	5020		239.						
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	Ice	HCI	HNO <sub>3</sub>	Other REX & TPH as	TDH as Dissel (90	Havane Extractional Materia while EDA 1664	Total Detailant Hedden Print West (10.1)	HVOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (G/D/MO 8015)	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA 625 / 8270 /	CAM-17 Metals 6020	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI					
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1534 Willow Pass Rd

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	rder: 090653	Client	Code: AEL		
		WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	II to:		Red	quested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsul	tants.com		Denise Moc	kel			
AEI Consultants	CC:				AEI Consult	ants	D		0.41810000
2500 Camino Diablo, Ste. #200	PO:	#WC081729			2500 Camir	no Diablo, Ste. #20	10 Da	te Received:	06/17/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	rman		Walnut Cree	ek, CA 94597	Da	te Printed:	06/17/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	1		
						Requested Tests	(See legend	helow)	

				Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
0906533-001	BF-1	Water	6/17/2009 10:15	А	Α										

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Samantha Arbuckle

#### **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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	and Time Received:	06/17/09 7	:27:55 PM
Project Name:	#281939; Zimmer	man				Check	klist completed and	reviewed by:	Samantha Arbuckle
WorkOrder N°:	0906533	Matrix <u>Wa</u>	ater			Carrie	r: <u>Client Drop-In</u>		
			<u>Chain c</u>	of Cu	<u>stody (C</u>	OC) Informa	ation		
Chain of custody	present?			Yes	✓	No 🗆			
Chain of custody	signed when relinqui	shed and re	eceived?	Yes	✓	No 🗆			
Chain of custody	agrees with sample la	abels?		Yes		No 🗌			
Sample IDs noted	by Client on COC?			Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ent on COC	?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?			Yes		No 🗆			
			<u>Sa</u>	mple	Receipt	Information	1		
Custody seals int	tact on shipping contai	iner/cooler?	•	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good cond	ition?		Yes	✓	No 🗆			
Samples in prope	er containers/bottles?			Yes	✓	No 🗆			
Sample containe	rs intact?			Yes	$\checkmark$	No 🗆			
Sufficient sample	volume for indicated	test?		Yes		No 🗌			
		<u>Samp</u>	ole Preserv	ation	and Ho	old Time (HT)	) Information		
All samples recei	ved within holding time	e?		Yes		No 🗌			
Container/Temp E	Blank temperature			Coole	r Temp:	6.6°C		NA 🗆	
Water - VOA vial	ls have zero headspac	ce / no bubb	oles?	Yes	✓	No 🗆	No VOA vials subm	nitted 🗆	
Sample labels ch	necked for correct pres	servation?		Yes		No 🗌			
TTLC Metal - pH	acceptable upon recei	pt (pH<2)?		Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No 🗆			
			(Ice Type:	WE	TICE	)			
* NOTE: If the "N	lo" box is checked, se	ee comment	ts below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell Ar		ical, Ir	<u>nc.</u>		: www.mccampl	ass Road, Pittsbur pell.com E-mail: 77-252-9262 Fa	main@mccamp	bell.com		
AEI C	Consultants			Client P	roject ID: #	281939; Zim	merman	Date Sample	ed: 06/17	//09		
2500	Camino Diablo, Ste. #2	.00						Date Receiv	ed: 06/17	7/09		
				Client C	Contact: Ro	bert Flory		Date Extract	ed: 06/19			
Walnı	ut Creek, CA 94597			Client P	.O.: #WC0	81729		Date Analyz	ed: 06/19	0/09		
Extraction	Gaton method: SW5030B	asoline ]	Range (	(C6-C12)	-	drocarbons		e <b>with BTEX a</b> Bm	and MTBE*		k Order:	0906533
Lab ID	Client ID	Matrix	TF	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	BF-1	W	6	700	ND<150	840	19	170	150	20	108	d1
	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5		μg/L	
	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g

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

Angela Rydelius, Lab Manager

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

d1) weakly modified or unmodified gasoline is significant



"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matri	x: Water			Batch	ID: 43927		WorkC	Drder 09065	33
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					s	Spiked San	nple ID	: 0906525-0	03C
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	1
, mary to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex <sup>£</sup>	ND	60	117	123	5.31	125	125	0	70 - 130	20	70 - 130	20
MTBE	ND	10	94.5	95.1	0.681	99.7	94.3	5.53	70 - 130	20	70 - 130	20
Benzene	ND	10	97.5	101	3.78	92.9	97.6	4.93	70 - 130	20	70 - 130	20
Toluene	ND	10	97	101	4.18	96.4	97.8	1.38	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	95	99.3	4.40	99	96.2	2.87	70 - 130	20	70 - 130	20
Xylenes	ND	30	96.1	101	4.98	100	97.6	2.45	70 - 130	20	70 - 130	20
%SS:	102	10	99	99	0	100	99	0.956	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

			<u>BATCH 43927 SL</u>	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0906533-001A	06/17/09 10:15 AM	06/19/09	06/19/09 4:38 AM				

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

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

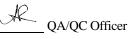
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

£ 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.



McCampbell An "When Ouality		Web: www.mce	ow Pass Road, Pittsburg, campbell.com E-mail: m ne: 877-252-9262 Fax:	ain@mccampbell.com
AEI Consultants	Client Project ID: #281939	; Zimmerman	Date Sampled:	08/10/09
2500 Camino Diablo, Ste. #200			Date Received:	08/10/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	08/13/09
Wunde Creek, CIT 94397	Client P.O.: #WC081870		Date Completed:	08/12/09

#### WorkOrder: 0908229

August 13, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#281939; Zimmerman**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

Telepho	McCAN ne: (925) 25	1534 V Pitts	L ANA Villow Pas burg, CA	s Road		L IP		252	2-92	69	-				RN Rec		ROI	UNI	DT	IM		I		SH	Ç		Ę			2 HR	5 DA
Report To: Rober	t Flory		]	Bill To	o: san	ne		P.0	), #	WC	081	870						Ana	lysi	s Re	que	st			2.00			Othe	er	Cor	nment
Company: AEI C	onsultants																		Gel		T									1	
2500 0	Camino Dial	blo												lei	1664				5 B												
Waln	ut Creek, C	A 94597		E-M	ail:rfl	ory@	aeico	onsul	tants	s.con	n			w silica gel	PA				Silica			1									
Tele: (925) 746-64	000	and the second	1	ax: (	(925)	746-	6099	)					8015)	v sil	elE	8.1)			/m (			0	0								
Project #: 281939			1 1	rojec	t Nar	ne:Z	imm	erm	an				+	ge v	Sile	(41)		-	015)			02.0	2								
Project Location:	3442 Adelin	e Street/	akland	CA									8020	-ran	M/M	ons		020	080	E		0/0	2		2	5				I	
Sampler Signatur	e: An	- /	a			-							602/	fulti	teri	carb		2/8	MX	NO	c	3 9	70		1070	100					
	"	SAMP	LING			N	IAT	RIX	ζ.		IETH		Gas	-N-	e Ma	ydro		A 60	(G/I	CB's	CIT O	EDVO		070	0000	760					
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other				Other 😇 Gas (602/8020	TPH as Diesel (8015) -Multi-range	Hexane Extractable Materia w/sil gel EPA 1664	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	TPH Multi-Range (G/D/MO 8015) w/	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	ELA 023 / 02/U = 3 VUUS	TALLS IN SUSTERAUS / 02/01/03/0	CAM-17 Metals 6020	LUFT 2 Metals	RCI RCI					
BF-1		Blulig	1055	3	Voat	X	-	1		X		1	2	+ -	-				-		+	+	+	+	+			-	+	-	
BF-0 5		CI COLO I	1255	4	6	X		-		X	-		2		1	-			-	+	+	+	$^{+}$	+	-	-		-	+	-	
- /			(6))	-			-	+			-	-	+	-	-	-				+	+	+	+	-	+	-		-	-	+	
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6

1534 Willow Pass Rd Pittsburg, CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 090822	29 Client	Code: AEL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	II to:		Rec	quested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsu	ltants.com		Denise Moc	kel			
AEI Consultants	cc:				AEI Consulta	ants	_		
2500 Camino Diablo, Ste. #200	PO:	#WC081870			2500 Camin	no Diablo, Ste. #20	$D_0 Dat$	te Received:	08/10/2009
Walnut Creek, CA 94597	ProjectNo:	#281939; Zimme	erman		Walnut Cree	ek, CA 94597	Da	te Printed:	08/10/2009
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.con	ก		

								Requ	uested	Tests (	See leg	jend be	low)			
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
			· · · · · · · · · · · · · · · · · · ·													
0908229-001	BF-1	Water	8/10/2009 10:55		Α	Α										
0908229-002	BF-5	Water	8/10/2009 12:55		А											

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5		
10		

Prepared by: Samantha Arbuckle

#### **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.



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	and Time Received:	8/10/2009	8:47:00 PM		
Project Name:	#281939; Zimmer	man				Check	list completed and r	Samantha Arbuckle			
WorkOrder N°:	0908229	Matrix <u>V</u>	<u>Water</u>			Carrie	r: <u>Client Drop-In</u>				
			<u>Chain</u>	of Cu	<u>stody (C</u>	OC) Informa	ition				
Chain of custody	present?			Yes	$\checkmark$	No 🗆					
Chain of custody	signed when relinqui	shed and r	received?	Yes	✓	No 🗆					
Chain of custody	agrees with sample l	abels?		Yes	✓	No 🗌					
Sample IDs noted	by Client on COC?			Yes	✓	No 🗆					
Date and Time of	collection noted by Cli	ient on CO	C?	Yes	✓	No 🗆					
Sampler's name r	noted on COC?			Yes	✓	No 🗆					
Sample Receipt Information											
Custody seals int	tact on shipping conta	iner/cooler	r?	Yes		No 🗆		NA 🔽			
Shipping containe	er/cooler in good cond	lition?		Yes	$\checkmark$	No 🗆					
Samples in prope	er containers/bottles?			Yes	✓	No 🗆					
Sample containers intact?				Yes	$\checkmark$	No 🗆					
Sufficient sample volume for indicated test?				Yes	✓	No 🗌					
		<u>Sam</u>	nple Presei	vatior	n and Ho	old Time (HT)	) Information				
All samples recei	ved within holding time	e?		Yes	✓	No 🗌					
Container/Temp B	Blank temperature			Coole	r Temp:	7°C		NA 🗆			
Water - VOA vial	ls have zero headspa	ce / no bul	bbles?	Yes	✓	No 🗆	No VOA vials subm	itted 🗌			
Sample labels ch	necked for correct pres	servation?	•	Yes	$\checkmark$	No 🗌					
TTLC Metal - pH	acceptable upon recei	ipt (pH<2)?	?	Yes		No 🗆		NA 🗹			
Samples Receive	ed on Ice?			Yes	✓	No 🗆					
			(Ice Type	e: WE	TICE	)					
* NOTE: If the "N	lo" box is checked, se	ee comme	nts below.								
		·									

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbo	alytic	cal, Ir	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants Client Project ID:					roject ID: #	281939; Zimmerman Date Sampled: 08/10/09						
2500 Camino Diablo, Ste. #200 Client Contact: R Walnut Creek, CA 94597 Client P.O.: #WC						Date Received: 08/10/09						
					Client Contact: Robert Flory			Date Extracted: 08/11/09-08/12/09				
					2.O.: #WC08	81870		Date Analyzed: 08/11/09-08/12/09				
	G	asoline R	ange (C	C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE <sup>;</sup>	*		
Extraction	n method: SW5030B				Analyt	tical methods:	SW8021B/8015	5Bm		Wor	rk Order:	0908229
Lab ID	Client ID	Matrix	TPH	H(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	BF-1	W	11,0	000	ND<120	710	14	440	290	10	112	d1
002A	BF-5	W	17	70	ND<25	32	0.55	4.2	0.81	1	108	d1
Report	ing Limit for DF =1;	W	50	0	5.0	0.5	0.5	0.5	0.5		<u> </u>	
ND me	ans not detected at or e the reporting limit	s	1.		0.05	0.005	0.005	0.005	0.005	μg/L mg/Kg		

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation:

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant



"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8021B/8015Bm

QC Matrix: Water W.O. Sample Matrix: Water BatchID: 45065 WorkOrder 0908229 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 0908209-004A MSD MS-MSD LCS LCSD LCS-LCSD Spiked MS Sample Acceptance Criteria (%) Analyte % RPD MS / MSD RPD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD TPH(btex) ND 109 104 5.12 102 13.4 70 - 130 70 - 130 60 89.4 20 20 MTBE 10 105 93.3 12.0 ND 111 113 1.23 70 - 130 2.0 70 - 130 20 Benzene ND 10 106 113 5.99 114 108 5.07 70 - 130 20 70 - 130 20 Toluene ND 10 104 109 4.81 112 106 5.03 70 - 130 20 70 - 130 20 Ethylbenzene ND 10 105 110 4.39 112 106 5.78 70 - 130 20 70 - 130 20 Xylenes ND 30 103 108 5.34 110 100 9.46 70 - 130 2.0 70 - 130 20 %SS: 96 10 97 100 3.00 101 105 3.82 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 45065 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908229-001A	08/10/09 10:55 AM	08/11/09	08/11/09 6:38 PM	0908229-002A	08/10/09 12:55 PM	08/12/09	08/12/09 2:40 AM

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

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

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

£ 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.

