



Ro 402

Alameda-Contra Costa Transit District

March 28, 2006

Mr. Amir Gholani
Alameda County Health Division
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

Dear Mr. Amir:


Subject: Quarterly Groundwater Monitoring Report – November 2005 Sampling
AC Transit, 1177 47th Street, Emeryville

AC Transit hereby submits the enclosed Groundwater Monitoring Report for the AC Transit facility located at 1177 47th Street in Emeryville. This report was prepared by our consultant, Essel Technology Services, Inc, and contain the results of the November 2005 sampling event.

The quarterly groundwater monitoring involved collecting groundwater samples from 15 on-site monitoring wells and measuring depth to water in all monitoring wells. These samples were analyzed for total petroleum hydrocarbons (TPH) using modified EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) using EPA Method 8021B. TPH as diesel-range hydrocarbons were detected in 13 of the 15 wells sampled with the highest concentrations detected in wells W-1 at 2400 ppb and MW-6 at 2000 ppb. TPH as gasoline-range hydrocarbons was detected in six of the 15 wells sampled with the highest concentration in wells W-1 at 6200 ppb and MW-6 at 750 ppb. MTBE, ethylbenzene, toluene, and xylenes were detected in wells W-1 and MW-6 at concentrations ranging from 1.9 to 20 ppb.

If you have any questions or comments regarding the enclosed report, please call me at (510) 577-8869.

Sincerely,


Suzanne Chaewsky, P.E.
Environmental Engineer

enclosure

**GROUND-WATER MONITORING
IN
NOVEMBER 2005
ALAMEDA CONTRA COSTA
TRANSIT DISTRICT FACILITY
1177 47TH STREET
EMERYVILLE, CALIFORNIA**

Prepared for

**Alameda-Contra Costa Transit District
10626 International Boulevard
Oakland, California 94603**

Prepared by

**Essel Technology Services, Inc.
9778 Broadmoor Drive
San Ramon, California 94583
(925) 833-7977**

Project No.

January 2006

Essel Technology Services, Inc.

1305 Franklin Street # 200, Oakland, California 94612 • Tel: 925/833-7991, 510/206-0270 • Fax: 925/833-7977
EsselTekServices@aol.com

March 5, 2006

Ms. Suzanne Chaewsky
AC Transit District
10626 International Blvd
Oakland, CA 94603

Re: **FINAL REPORT**
Quarterly Groundwater Monitoring Report – November 2005 Sampling
AC Transit 1177 47th Street, Emeryville, California

Dear Ms. Chaewsky:

ETS is pleased to submit this final report for quarterly groundwater monitoring sampling event for the above site.

ETS carried out groundwater sampling on November 2 and November 3, 2005 of sixteen monitoring wells (MW 1 through MW 13 and W 1 through W 4) in accordance with the Contract requirement.

If you have any questions feel free to give us a call.

Sincerely,



Samhita Lahiri
Principal

Attachment: 1 additional copy

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IN
NOVEMBER 2005
ALAMEDA CONTRA COSTA
TRANSIT DISTRICT FACILITY
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**GROUND-WATER MONITORING
IN
NOVEMBER 2005
ALAMEDA CONTRA COSTA
TRANSIT DISTRICT FACILITY
1177 47TH STREET
EMERYVILLE, CALIFORNIA**

1.0 INTRODUCTION

The Alameda Contra Costa Transit District (AC Transit) has contracted with Essel Technology Services, Inc. (Essel Tech) to perform ground-water monitoring and sampling at the AC Transit Division 2 facility in Emeryville, California. This report presents the results of monitoring and sampling performed in November 2005.

1.1 Site Location and Description

The Division 2 facility is located at 1177 47th Street in Emeryville, California and occupies nearly the entire city block that is bounded by 47th Street on the north, 45th Street on the south, San Pablo on the east, and Doyle Street on the west, as shown on Plate 1. The facility is used for storage and maintenance of AC Transit buses. The primary site feature is a maintenance building that is located in the southwestern portion of the site. Other facilities include a parking garage, a transportation building, and a bus washing structure that are located along the northern property line adjacent to 47th Street; and a tire building, an emergency generator building, a pump station, and storm water treatment facilities that are located at the western edge of the site next to Doyle Street. The site also contains underground storage tanks (USTs). One group of USTs, referred to as Tank Farm No. 1, is located near the northeastern corner of the property and just south of fuel dispenser islands. A second group of USTs, referred to as Tank Farm No. 2 was located near the center of the property and a short distance east of the present maintenance building. These tanks were removed in 1999. A 550-gallon UST also is located next to the southern side of the emergency generator building.

Sixteen wells used for ground-water monitoring are presently installed at the site. Thirteen of the wells (MW-1 through MW-10, MW-12, MW-13, and W-4) are spaced across the northern half of the site and monitor the ground water near and to the west (approximately downgradient) of Tank Farm No 1 and the fuel dispenser islands. Well MW-12 also serves to monitor the ground water at a location northwest of the 550-gallon UST that provides fuel for the emergency generator. Three of the 16 wells are located in the southeastern quadrant of the property. Well M-3 is at the eastern edge of the property at a location that is upgradient of Tank Farm No. 1, well W-1 is located approximately 220 feet south of Tank Farm No. 1, and MW-11 is near the southwestern corner of Tank Farm No. 2. Three additional wells, that are not part of the ground-water-monitoring program, are located adjacent to Tank Farm No. 1. These wells are referred to as E-1,

E-2, and E-5. Plate 2 is a Site Plan that shows the relative locations of the AC Transit facilities, the 16 ground-water-monitoring wells, and the three additional wells.

2.0 FIELD AND LABORATORY WORK

2.1 Field Procedures

Essel Tech personnel visited the site on November 2 and 3, 2005 to measure the water level in wells MW-1 through MW-13 and W-1, W-3, and W-4, to measure the thickness of free petroleum product in the wells, and to purge the wells for ground-water sampling. The depth to free-phase product and to the static ground-water surface in each well were measured to the nearest 0.01-foot using an electronic oil-water interface probe. Following water-level measurements, 15 of the 16 wells were purged of water using a submersible pump and discharge hose. Approximately three casing volumes of water were pumped from each well. Well MW-13 was not purged for sampling because of the presence of free-phase product. Field measurements of temperature, pH, electrical conductivity, dissolved oxygen, oxygen reduction potential, and ferrous iron were monitored during pumping. Measurements were recorded on field well-development and sampling forms, which are included in Appendix A.

To minimize the potential for inadvertently introducing contaminants, wells were purged in order from least contaminated to most contaminated using the analytical results from the previous monitoring event. In addition, the purge pump and attached discharge hose were cleaned before use in each well by washing the equipment in a soap solution followed by rinsing twice with clean tap water. Discharge water from well purging was directed into 55-gallon drums, which were then emptied into the maintenance building steam bay.

Essel Tech personnel collected water samples from the 15 wells on November 3, 2005. A clean, disposable polyethylene bailer was lowered through the air-water interface in each well and retrieved to collect the samples. The retrieved water samples were then slowly transferred from the bailer to clean, 40-milliliter volatile organic analysis (VOA) glass vials containing hydrochloric acid as a preservative; to clean, 1-liter brown glass liter bottles containing sulfuric acid as a preservative; and to clean, 1-liter plastic bottles. The various containers were filled completely to eliminate air bubbles, sealed with caps, labeled, and placed in ice storage for transport to an analytical laboratory.

2.2 Laboratory Analyses

Essel Tech personnel prepared Chain-of-Custody forms for the ground-water samples collected and these forms accompanied the samples to the laboratory. Copies of the Chain-of-Custody forms are included in Appendix B. The water samples were delivered to McCampbell Analytical, Inc. (McCampbell) in Pacheco, California for analysis. McCampbell analyzed the samples for total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd) using Environmental Protection Agency (EPA) modified Method 8015, for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8260, and for nitrate (as nitrogen) and sulfate using EPA Method 300.1.

3.0 RESULTS OF MONITORING AND SAMPLING

3.1 Ground-Water Monitoring

The measured depths to the static ground-water surface in wells MW-1 through MW-13 and W-1, W-3, and W-4 ranged from 4.21 to 10.76 feet below the tops of the well casings on November 2, 2005. A measurable amount (0.063-foot) of free-phase petroleum product was found in well MW-2. Essel Tech used wellhead elevation data and depth-to-water measurements made on November 2, 2005 to calculate the elevation of the ground-water surface in the wells. The elevation of the ground-water surface ranged from 29.22 feet to 13.67 feet above mean sea level. Based on the range of elevations, ground water is estimated to flow toward the west-southwest at a gradient of 0.022 (2.2 feet vertical distance per 100 feet horizontal distance). Table 1 presents data on product thickness, depth to ground water, and ground-water elevation for the 16 wells. Plate 3 is a contour map of the shallow ground-water surface interpreted from water-level data collected on November 2, 2005.

3.2 Laboratory Analyses

Results of laboratory analyses show gasoline-range hydrocarbons (i.e., TPHg) were detected in six of the 15 wells sampled. The highest concentrations were detected in water samples from wells W-1 (6,200 parts per billion [ppb]) and MW-6 (750 ppb). These wells are located approximately 220 feet south and 140 feet southwest, respectively, of Tank Farm No. 1. Gasoline-range hydrocarbons were also detected in water samples from wells MW-7 (310 ppb), MW-8 (150 ppb), MW-10 (300 ppb) and MW-12 (440 ppb). These wells are from 120 to 400 feet west of well MW-6. No TPHg was detected in samples from wells MW-1 through MW-5, located in the vicinity of Tank Farm No. 1 and the fuel dispenser islands. Total petroleum hydrocarbons as gasoline also were not detected in samples from well MW-9, located in the north-central portion of the site; well MW-11 at Tank Farm No. 2; upgradient well W-3, located at the eastern edge of the site; or W-4, located approximately 100 feet southwest of Tank Farm No. 1.

Diesel-range hydrocarbons (i.e., TPHd) were detected in 13 of the 15 wells sampled. As with TPHg, the highest concentrations were detected in wells W-1 (2,400 ppb) and MW-6 (2,000 ppb). A concentration of 1,500 ppb TPHd was found in the water sample from well MW-5, located approximately 50 feet west of Tank Farm No. 1. In other wells, concentrations of TPHd ranged from 66 ppb (well W-4) to 600 ppb (well MW-10). No TPHd was detected in samples from well MW-4, located just south of Tank Farm No. 1 or upgradient well W-3.

The aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in wells W-1 and MW-6, which contained the highest concentrations of TPHg and TPHd. The detected concentrations of BTEX, however, are relatively low and range from 1.9 to 20 ppb. No BTEX was detected in samples from the 13 other wells. The fuel oxygenate, methyl tertiary butyl ether (MTBE), was detected in 14 of the 15 wells sampled, but at trace to low concentrations of 0.69-ppb (well MW-8) to 6.6 ppb (well MW-12). No MTBE was detected in the water sample from well MW-11, located adjacent to Tank Farm No. 2. Table 2 presents the results of analyses of water samples from the 15 wells and Appendix B contains copies of the laboratory reports of analyses.

4.0 RECOMMENDATIONS

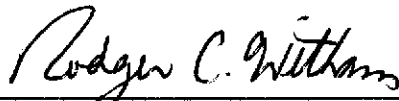
Essel Tech recommends that ground-water monitoring and sampling continue on a quarterly basis. The next sampling event should be scheduled for February 2006 and would include measuring depth to water and product thickness in the 16 ground-water-monitoring wells and purging and sampling wells MW-11, MW-12, and MW-13 for laboratory analysis.

Essel Tech recommends that water samples be analyzed for the same compounds for which analyses were performed during the November 2005 sampling event. Essel Tech, however, recommends that EPA Method 8020 (gas chromatography) be used for the analysis for BTEX and MTBE instead of EPA Method 8260 (gas chromatography followed by confirmation with mass spectrometry). Analysis of the November 2005 samples using EPA Method 8260 has confirmed the presence or absence of MTBE in site wells. Using EPA Method 8020 in future analyses would be sufficient for the detection of MTBE.

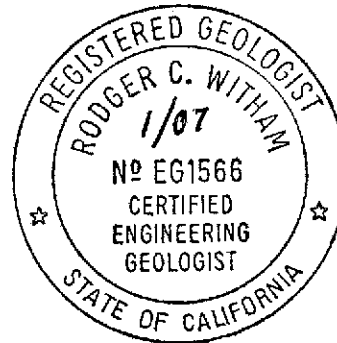
Please call if you have any questions.

Sincerely;
Essel Technology Services, Inc.

Samhita Lahiri
Project Manager



Rodger C. Witham, P.G., C.E.G
Senior Hydrogeologist



- Table 1: Well Monitoring Data
- Table 2: Results of Laboratory Analyses of Ground-Water Samples

- Plate 1: Site Vicinity Map
- Plate 2: Site Plan
- Plate 3: Ground-Water-Surface Map

- Appendix A: Well Development and Sampling Forms
- Appendix B: Chain-of-Custody Forms and Laboratory Reports

TABLE 1
WELL MONITORING DATA
Alameda Contra Costa Transit District Facility
1177 47th Street, Emeryville, California

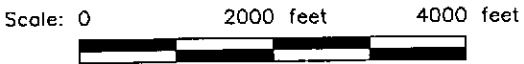
Well Number	Date	Top of Casing	Product Thickness	Depth to Ground Water	Ground-Water-Surface Elevation	Ground-Water-Surface Elevation Corrected for Product Thickness#
MW-1	11/02/05	32.56	0.00	5.14	27.42	27.42
MW-2	11/02/05	32.12	0.00	4.65	27.47	27.47
MW-3	11/02/05	34.06	0.00	6.21	27.85	27.85
MW-4	11/02/05	34.11	0.00	6.30	27.81	27.81
MW-5	11/02/05	31.70	0.00	4.55	27.15	27.15
MW-6	11/02/05	31.02	0.00	4.21	26.81	26.81
MW-7	11/02/05	29.62	0.00	5.50	24.12	24.12
MW-8	11/02/05	29.43	0.00	5.05	24.38	24.38
MW-9	11/02/05	29.18	0.00	4.26	24.92	24.92
MW-10	11/02/05	29.13	0.00	9.81	19.32	19.32
MW-11	11/02/05	29.93	0.00	4.30	25.63	25.63
MW-12	11/02/05	28.68	0.00	10.76	17.92	17.92
MW-13	11/02/05	22.72	0.063	9.10	13.62	13.67
W-1	11/02/05	33.43	0.00	6.59	26.84	26.84
W-3	11/02/05	37.46	0.00	8.24	29.22	29.22
W-4	11/02/05	31.72	0.00	4.70	27.02	27.02

Top of casing in feet above mean sea level.
Product thickness in feet.
Depth to ground water in feet below the top of the well casing.
Ground-water surface elevation in feet above mean sea level.
#Multiply product thickness by specific gravity of 0.8 and subtract from top of casing elevation.

TABLE 2
RESULTS OF LABORATORY ANALYSES OF GROUND-WATER SAMPLES
Alameda Contra Costa Transit District Facility
1177 47th Street, Emeryville, California

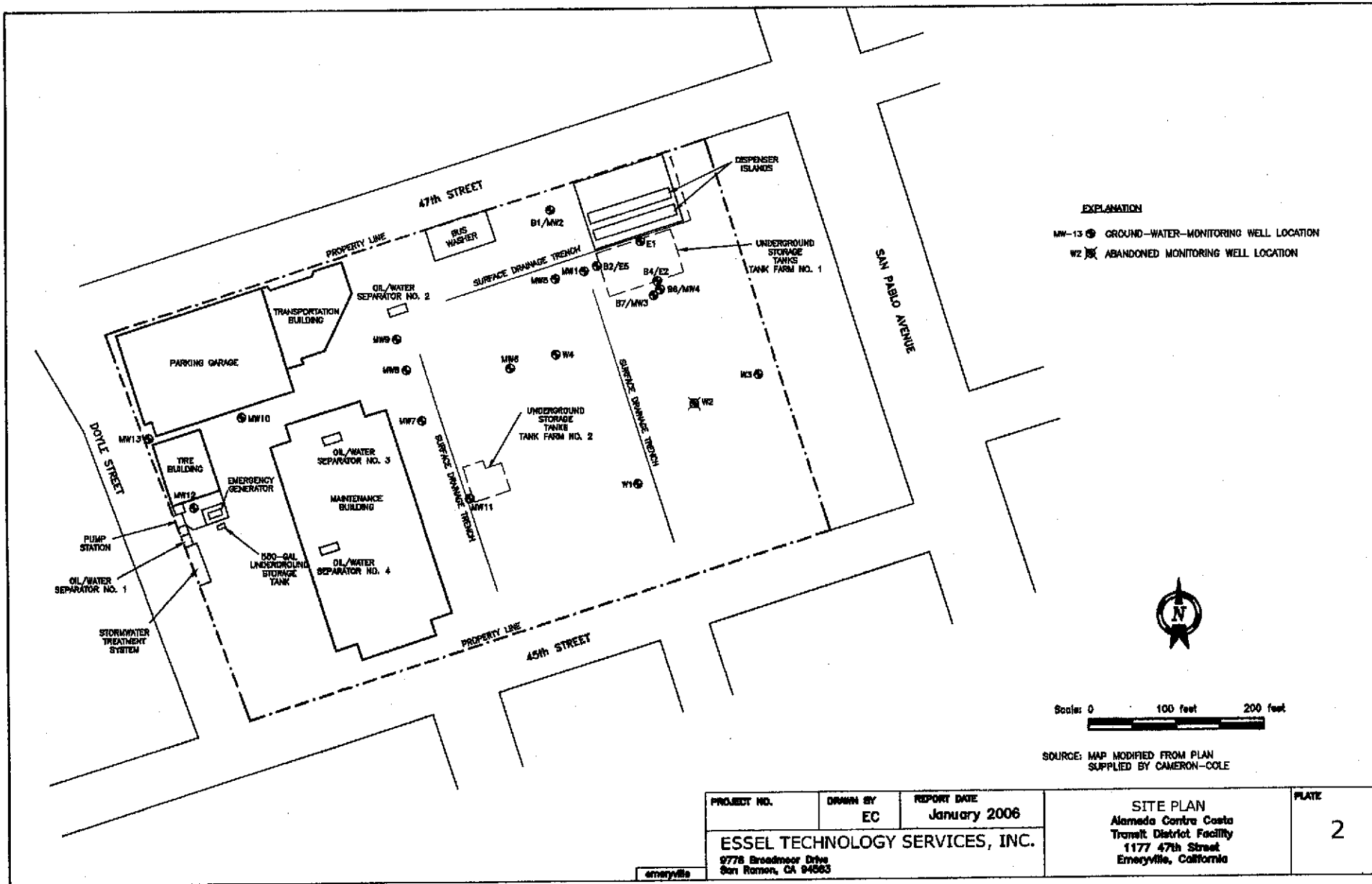
Well No.	Date Sampled	TPHg	TPHd	TPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Nitrate	Sulfate	Dissolved Oxygen	Ferrous Iron
MW-1	11/03/05	<50	70	NA	<0.5	<0.5	<0.5	<0.5	4.5	<100	56,000	2,330	0
MW-2	11/03/05	<50	110	NA	<0.5	<0.5	<0.5	<0.5	4.9	430	53,000	2,090	130
MW-3	11/03/05	<50	180	NA	<0.5	<0.5	<0.5	<0.5	3.2	3,500	67,000	1,850	0
MW-4	11/03/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	4.1	3,500	67,000	1,860	60
MW-5	11/03/05	<50	1,500	NA	<0.5	<0.5	<0.5	<0.5	5.7	<100	62,000	1,930	150
MW-6	11/03/05	750	2,000	NA	13	1.9	2.9	4.6	1.4	<100	16,000	1,570	3,300
MW-7	11/03/05	310	140	NA	<0.5	<0.5	<0.5	<0.5	2.3	<100	3,100	3,190	30
MW-8	11/03/05	150	280	NA	<0.5	<0.5	<0.5	<0.5	0.69	<100	24,000	1,630	860
MW-9	11/03/05	<50	470	NA	<0.5	<0.5	<0.5	<0.5	4.8	110	28,000	1,720	450
MW-10	11/03/05	300	600	NA	<0.5	<0.5	<0.5	<0.5	4.1	<100	780	2,350	2,670
MW-11	11/03/05	<50	290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<100	21,000	1,360	0
MW-12	11/03/05	440	120	NA	<0.5	<0.5	<0.5	<0.5	6.6	<100	3,700	1,700	740
MW-13	11/03/05	Not sampled - free-phase product in well											
W-1	11/03/05	6,200	2,400	NA	7.2	3.6	5.7	20	0.73	140	1,300	1,230	3,300
W-3	11/03/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.2	3,700	51,000	2,170	0
W-4	11/03/05	<50	66	NA	<0.5	<0.5	<0.5	<0.5	2.0	<100	32,000	1,620	970

Results in micrograms per liter = parts per billion; detectable results are shaded.
 TPHg = total petroleum hydrocarbons as gasoline
 TPHd = total petroleum hydrocarbons as diesel
 TPH = total petroleum hydrocarbons as motor oil or unknown hydrocarbon
 MTBE = methyl tertiary butyl ether
 MCL = maximum contaminant level
 NA = not analyzed
 < = less than the laboratory method detection limit



Source: USGS 7 1/2-Minute Quadrangle, Oakland West, California, Photorevised 1980.

PROJECT NO.	DRAWN BY EC	REPORT DATE January 2006	SITE VICINITY MAP Alameda Contra Costa Transit District Facility 1177 47th Street Emeryville, California	PLATE
ESSEL TECHNOLOGY SERVICES, INC. 9778 Broadmoor Drive San Ramon, CA 94583				1



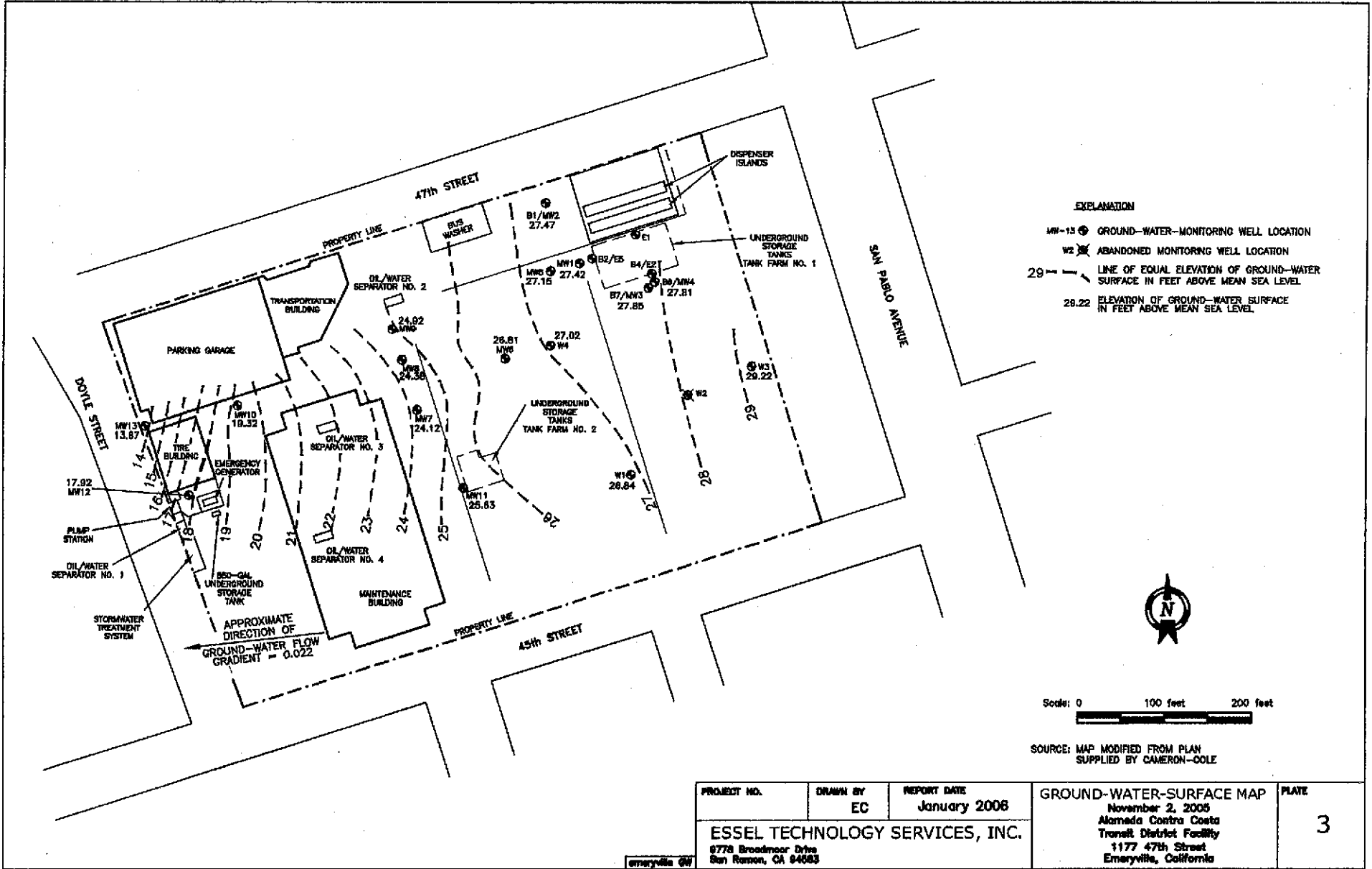
EXPLANATION
 MW-13 (circle with dot) GROUND-WATER-MONITORING WELL LOCATION
 W2 (circle with cross) ABANDONED MONITORING WELL LOCATION



Scale: 0 100 feet 200 feet

SOURCE: MAP MODIFIED FROM PLAN SUPPLIED BY CAMERON-COLE

PROJECT NO.	DRAWN BY EC	REPORT DATE January 2006	SITE PLAN Alameda Contra Costa Transit District Facility 1177 47th Street Emeryville, California	PLATE
ESSEL TECHNOLOGY SERVICES, INC. 2778 Broadway Drive San Ramon, CA 94583 <small>emeryville</small>				2



APPENDIX A
WELL DEVELOPMENT AND SAMPLING FORMS

Well Development and Sampling Form

Job Name AC TRANSIT WELL MONITORING Well Number MW-1
EMULSION SITE

Job Number 056912 Date Nov 2, 2005

Sample By Bill Storte

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input checked="" type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>14-0</u> +	
Depth to water (DTW) in feet <u>5.14</u>	
Purge Volume Calculation $(14 - 5.14) \times 3 \times 1.7 = 4.92$ gallons	
$TD - DTW \times V \times F = \text{purge volume}$	
Explanation	
For 2" diameter well: $V = 5, F = 0.17$ gallon/foot	$V = \text{well volume}$
For 4" diameter well: $V = 3, F = 0.66$ gallon/foot	$F = \text{gallon of water per foot of casing}$

0.15 GPM.

Field Parameters							
Time	pH	Conductivity	Temperature		ORP	Turbidity	Gallons pumped
			[] °C	[] °F			
a.m. [] p.m. <input checked="" type="checkbox"/>		Microhos/centimeter				DU	FE
Start							
						2.33	0
12:37 S.	7.42	621	23.5		162		1
12:39 F.							
12:41	7.30	611	23.5		120		2
12:43	7.33	602	23.5		120		3
12:47	7.31	606	23.5		149		5 GAL

DEPTH
6:35
6:19
7:05
7:35
PURGED
TOROID

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): EMULSION / TOROID

Discharge water disposal: [] Sanitary Sewer [] Storm Drain [] Drum Other STEM BOX @ SITE

Sampling Date: Nov 2, 2005 Time: _____

Well Development and Sampling Form

Job Name AC TRANSIT WELL WATER MONITORING / EMERYVILLE SITE Well Number MW-2

Job Number 0569/2 Date Nov. 2, 2005

Sample By Bill STORTE

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input checked="" type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>14.6</u> +	
Depth to water (DTW) in feet <u>4.865</u>	
Purge Volume Calculation $14.6 - 4.865 \times 3 \times 0.17 = 5.12$ gallons TD - DTW x V x F = purge volume	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume Feo Note

For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing 0.56 gpm

Field Parameters							
Time	pH	Conductivity	Temperature	ORP	Turbidity ^{DC}	Gallons pumped	
a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>		Microhos/centimeter	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F				
Start							
<u>1-27 235</u>	<u>7.43</u>	<u>553</u>	<u>23</u>	<u>154</u>	<u>2.09</u>	<u>973</u>	<u>DEPTH 555</u>
<u>1-25 F</u>							
<u>1-27</u>	<u>7.4</u>	<u>553</u>	<u>23</u>	<u>151</u>		<u>2</u>	<u>56</u>
<u>1-29</u>	<u>7.39</u>	<u>553</u>	<u>23</u>	<u>152</u>		<u>3</u>	<u>57</u>

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): TURBID; DROWN

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other SPERM DUMP SITE

Well Sampling Date: Nov 2, 2005 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER MONITORING

Job Name EMERYVILLE SITE Well Number NW-3

Job Number 0309/2 Date Nov 21, 2005

Sample By DIK STORTZ

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input checked="" type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____
Total depth (TD) of casing in feet <u>14'-6"</u> +	
Depth to water (DTW) in feet <u>6.21</u>	<input checked="" type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Purge Volume Calculation $14'-6" - 6.21 \times 3 \times 1.7 = 4.25$ gallons TD - DTW x V x F = purge volume	
Explanation	
For 2" diameter well: $V = \frac{3}{8} \pi D^2 L$, F = 0.17 gallon/foot	V = well volume
For 4" diameter well: $V = \frac{4}{3} \pi R^2 L$, F = 0.66 gallon/foot	F = gallon of water per foot of casing

Flow
0.5 gal/min
6/m

Field Parameters							
Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity		Gallons pumped FE	Depth
				0.2P	DO		
Start							
12-13 S	6.86	650	24	32	1.85	1	7.9
12-20 F							
12-22 F	6.73	670	24	26		2	8.9
12-24	6.54	663	24	15		3	9.3
12-28						5 gal	10.8
						Pumped out	

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM SHIP @ SITE

Sampling Date: Nov 21, 2005 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER

Job Name MONITORING / EMERY VICE SITE Well Number NW-4

Job Number 0569/2 Date Nov 2, 2005

Sample By Jim Sparte

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>15'-0"</u> +	
Depth to water (DTW) in feet <u>6'-3"</u>	
Purge Volume Calculation	
$(8.7) \times \frac{5}{2} \times 0.17 = 4.4$ gallons	
$TD - DTW \times V \times F = \text{purge volume}$	
Explanation	
For 2" diameter well: $V = \frac{\pi}{4} D^2 L F = 0.17$ gallon/foot	V = well volume <u>$\frac{1}{2}$ gal/min.</u>
For 4" diameter well: $V = \frac{\pi}{4} D^2 L F = 0.66$ gallon/foot	F = gallon of water per foot of casing

Field Parameters							
Time	pH	Conductivity	Temperature	ORP	DO	Fe	Gallons pumped
a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>		Microhos/centimeter	[x] °C [] °F	Turbidity			
Start 12:02	7.47	649	26.4	162	1.86	0.6	1
12:05	7.36	646	24	158			2
12:07	7.32	647	24°C	156			3
12:11			END.				5 gal

depth
7.5
8'
8:45
9:20

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM BY @ SITE.

Well Sampling Date: Nov 2, 2005 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER

Job Name MONITORING / EMERY VICE SITE Well Number MW-5

Job Number 0569/2 Date NOV 2, '05

Sample By CIM STORTE

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input checked="" type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>19.58</u> +	
Depth to water (DTW) in feet <u>4.55</u>	
Purge Volume Calculation $(19.58 - 4.55) \times 3 \times 1.17 = 7.66$ gallons TD - DTW x V x F = purge volume	
Explanation	
For 2" diameter well: V = 5, F = 0.17 gallon/foot	V = well volume 0.16 GPM
For 4" diameter well: V = 3, F = 0.66 gallon/foot	F = gallon of water per foot of casing

Field Parameters								DEPTH
Time	pH	Conductivity	Temperature	ORP	Turbidity	Gallons pumped	FE	
a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>		Microhos/centimeter	[N]°C []°F					
Start								
<u>1:02:59-5</u>	<u>7.51</u>	<u>642</u>	<u>23</u>	<u>153</u>	<u>1.93</u>	<u>15</u>	<u>2</u>	<u>62'</u>
<u>1:03 F</u>								
<u>1:06</u>	<u>7.47</u>	<u>644</u>	<u>22</u>	<u>152</u>		<u>4</u>		<u>0.76 GPM</u> <u>6.75'</u>
<u>1:09</u>	<u>7.45</u>	<u>644</u>	<u>23</u>	<u>152</u>		<u>6</u>		<u>6.89'</u>
<u>1:12</u>						<u>8 Gal</u>		<u>Purged</u>

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM PANS @ SITE

Well Sampling Date: NOV 2, '05 Time: _____

Well Development and Sampling Form

Job Name AE TRANSIT WELL WATER MONITORING / EMERY VICE SITE Well Number MW-6

Job Number 0569102 Date 11/2

Sample By B. STORTZ

Purge Volume

Casing Diameter: 2-inch 4-inch Other _____
 Total depth (TD) of casing in feet 19.7 +
 Depth to water (DTW) in feet 4.21

Purge Volume Calculation

$(19.7 - 4.21) \times 3 \times 0.17 = 7.9$ gallons

$TD - DTW \times V \times F = \text{purge volume}$

Development/Purge Method(s)

Swab Surge Other _____
 Bail Bailer Type: _____
 Pump
 Pump Type: Submersible Centrifuge
 Bladder Other

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot

V = well volume

For 4" diameter well: V = 3, F = 0.66 gallon/foot

F = gallon of water per foot of casing

Field Parameters

Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature		ORP	Turbidity DO	Gallons pumped FE	Depth
			<input checked="" type="checkbox"/> °C	<input type="checkbox"/> °F				
Start								
4:37.5	7.41	852	23.2		117		2	4.52
4:41 P								
4:45	7.56	870	23.5		97		4	4.6
4:49	7.6	879	23.6		93		6	4.73
							8 Purged	

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): FUEL ODOR / CLEAR TURBID

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM PAX @ SITE

Sampling Date: Nov. 2, '05 Time: _____

Well Development and Sampling Form

Job Name AC TRANSIT WELL WATER MONITORING EMERYVILLE SITE Well Number MW-7

Job Number 0569/02 Date Nov 2, 05

Sample By Jim Scott

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>24.58</u> +	
Depth to water (DTW) in feet <u>5.5</u>	
Purge Volume Calculation	
$\frac{24.58 - 5.5}{3} \times 3 \times 0.17 = 10.75 \text{ gallons}$	
$TD - DTW \times V \times F = \text{purge volume}$	
Explanation	
For 2" diameter well: V = 5, F = 0.17 gallon/foot	V = well volume Flow: <u>0.15 GPM</u>
For 4" diameter well: V = 3, F = 0.66 gallon/foot	F = gallon of water per foot of casing

Field Parameters						
Time	pH	Conductivity	Temperature	Turbidity	Gallons pumped	
a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>		Microhos/centimeter	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	ORP DO FE		
Start						
<u>2-26.5</u>	<u>7.25</u>	<u>718</u>	<u>22</u>	<u>145</u>	<u>3.19</u>	<u>2</u>
<u>2-28.5</u>						
<u>2-30</u>	<u>6.95</u>	<u>919</u>	<u>21</u>	<u>147</u>		<u>4</u>
<u>2-40</u>	<u>6.8</u>	<u>923</u>	<u>21.7</u>	<u>151</u>		<u>8</u>
<u>2-48</u>						<u>11 GAL Purge</u>

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other Stream Bay @ Site

Sampling Date: Nov 2, 05 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER

Job Name MONITORING / EMERYVILLE SITE Well Number N/W - 8

Job Number 056912 Date Nov. 02, '05

Sample By Bill Scott

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>20.58</u> +	
Depth to water (DTW) in feet <u>5.05</u>	
Purge Volume Calculation $(20.58 - 5.05) \times 3 \times 0.17 = 7.92$ gallons	
TD - DTW x V x F = purge volume	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume 1.5 GA.

For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing

Field Parameters						
Time	pH	Conductivity	Temperature	Turbidity	Gallons pumped	
a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>		Microhos/centimeter	<input type="checkbox"/> °C <input type="checkbox"/> °F	CLP DO	Fe.	
Start				1.63	186	DEPTH
1:57	7.33	938	23.	155		7.75
1:59						8.15
2:01	7.32	939	23.	152		2.35
2:07	7.26	942	23	150		9.65
2:14						8

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM BAR (D) SITE

Well Sampling Date: Nov. 02, 05 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER

Job Name MONITORING / ENRYVILLE SITE Well Number MW-9

Job Number 0569/2 Date Nov. 2, 06

Sample By Bue Stortz

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>20.50</u> +	
Depth to water (DTW) in feet <u>4.26</u>	
Purge Volume Calculation	
$(20.50 - 4.26) \times 3 \times 1.17 = 2.28$ gallons	
$TD - DTW \times V \times F = \text{purge volume}$	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume Fe

For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing 0.5 G.P.M.

Field Parameters						
Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity ORP	DO	Gallons pumped FE
1:42					1172	45
1:44	7.36	788	22.6	159		
1:46	7.25	842	22.5	159		2
1:48	7.2	872	22.5	156		3
<u>1:57</u>						<u>6</u>

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM BAR @ SITE.

Sampling Date: Nov. 2, 05 Time: _____

Well Development and Sampling Form

Job Name AC TRANSIT WELL WATER MONITORING / EMERYVILLE SITE Well Number MW-10

Job Number 056912 Date 11/2/05

Sample By Bruce Stortz No Cover

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>24.13</u> +	
Depth to water (DTW) in feet <u>9.81</u>	
<p>Purge Volume Calculation</p> <p>$(24.13 - 9.81) \times 3 \times 0.17 = 7.3$ gallons</p> <p>TD - DTW x V x F = purge volume</p>	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume
 For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing

Field Parameters							
Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature		Turbidity		Gallons pumped Gals.
			[] °C [] °F	ORP	DO	Fe.	
Start							
3:33.5	7.86	695	20.2	121	2.35	2.67	2
3:37.5							
3:41	7.83	689	20.3	117			4
3:45	7.81	686	20.3	116			6
3:49							8.66

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): No Cover /

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other Stream @ Site.

Sampling Date: Nov. 2, 05 Time: _____

Well Development and Sampling Form

ACTRANSIT NEEL WATER

Job Name MONITORING / EMRYVILLE SITE Well Number N/W - 11

Job Number 056912 Date 11/2/05

Sample By Bill Stortz

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>17.4</u> +	
Depth to water (DTW) in feet <u>4.30</u>	
Purge Volume Calculation $(17.4 - 4.30) \times 3 \times 0.17 = 6.69$ gallons	
TD - DTW x V x F = purge volume	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume 05 GPM.

For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing

Field Parameters							
Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Turbidity		Gallons pumped	
				ORP	DO	FE	
Start					136	0	
3-12 S	7.9	630	23.47	141			1
3-14 F							
3-18	7.92	537	23.6	138			3
3-22	7.87	528	23.6	138			5
3-26							7

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): TURBID / L-OR.

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other Stream Bed @ Site

Sampling Date: Nov 2, '05 Time: _____

Well Development and Sampling Form

AC TRANSIT WELL WATER

Job Name MONITORING / EVERYWHERE SITE Well Number MW-12

Job Number 1569/02 Date Nov. 2, 05

Sample By Bill Spitzer

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____
Total depth (TD) of casing in feet <u>29.9</u> +	<input type="checkbox"/> Bail Bailer Type: _____
Depth to water (DTW) in feet <u>10.76</u>	<input type="checkbox"/> Pump
Purge Volume Calculation	Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge
$29.9 - 10.76 \times 3 \times 0.17 = 9.76$ gallons	<input type="checkbox"/> Bladder <input type="checkbox"/> Other
$TD - DTW \times V \times F = \text{purge volume}$	
Explanation	
For 2" diameter well: $V = 5, F = 0.17$ gallon/foot	V = well volume
For 4" diameter well: $V = 3, F = 0.66$ gallon/foot	F = gallon of water per foot of casing

Field Parameters								
Time	pH	Conductivity	Temperature	Turbidity		Gallons pumped		Depth
				CMF	DO	Fe		
a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>		Microhos/centimeter	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F					
Start								
<u>4:02</u>	<u>7.45</u>	<u>771</u>	<u>20</u>	<u>121</u>	<u>1.70</u>	<u>174</u>	<u>2</u>	<u>12.65</u>
<u>4:00</u>								
<u>4:10</u>	<u>7.4</u>	<u>760</u>	<u>20.1</u>	<u>120</u>			<u>4</u>	<u>13.8</u>
<u>4:12</u>	<u>7.35</u>	<u>757</u>	<u>20.1</u>	<u>122</u>			<u>8</u>	<u>14.2</u>
<u>4:22 STOPPED</u>							<u>10 Gal</u>	<u>Purging</u>

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): DARK BROWN

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM DRUM @ SITE

Sampling Date: Nov. 2, 05 Time: _____

Well Development and Sampling Form

Job Name AC TRANSIT WELL WATER MONITORING / EMERYVILLE SITE Well Number NW-13

Job Number 0569/2 Date 11/3/05

Sample By Dave Storck

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet _____ +	
Depth to water (DTW) in feet _____	
Purge Volume Calculation _____ - _____) x _____ x _____ = _____ gallons TD - DTW x V x F = purge volume	
Explanation For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing	

Field Parameters					
Time	pH	Conductivity	Temperature	Turbidity	Gallons pumped
a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>		Microhos/centimeter	<input type="checkbox"/> °C <input type="checkbox"/> °F		
Start					
					GALLONS PURGED
		EXCESSIVE FREE PRODUCTS. NOT TESTED.			
	THICK	DARK BROWN LIQUID.		FOUL FUEL ODOR	

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other CREAM NOT PURGED

Sampling Date: NOV 2, 05 Time: _____

Well Development and Sampling Form

ACTRANSIT WELL WATER

Job Name MONITORING / ENERVIVE SITE Well Number W-1

Job Number 0569/02 Date Nov 2, '05

Sample By DM SCORTZ

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____ <input type="checkbox"/> Bail Bailer Type: _____ <input type="checkbox"/> Pump Pump Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Centrifuge <input type="checkbox"/> Bladder <input type="checkbox"/> Other
Total depth (TD) of casing in feet <u>16.83</u> +	
Depth to water (DTW) in feet <u>6.59</u>	
Purge Volume Calculation $(16.83 - 6.59) \times 3 \times 0.17 = 5.22$ gallons	
TD - DTW x V x F = purge volume	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume
 For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing

Field Parameters							
Time a.m. [] p.m. []	pH	Conductivity Microhos/centimeter	Temperature [X] °C [] °F	Turbidity		Gallons pumped	
				ORP	DO	FE	
Start							
5-23	7.31	823	22.9	121	1.23	3.30	1
5-25							
5-29	7.3	825	23.0	115			3
5-33	7.33	824	23	111			5
							6 Gall Pump

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other Stream Bed @ Site.

Well Sampling Date: Nov 2, 2005 Time: _____

Well Development and Sampling Form

Job Name Emoryville site Well Number N-3

Job Number 0569/02 Date 11-2-01

Sample By Shek Gules/Dave Scott

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____
Total depth (TD) of casing in feet <u>28.7</u> +	<input type="checkbox"/> Bail Bailer Type: _____
Depth to water (DTW) in feet <u>8.24</u>	<input type="checkbox"/> Pump Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge
Purge Volume Calculation <u>(28.7 - 8.24) x 3 x 0.17 = 10.48</u> gallons	<input type="checkbox"/> Bladder <input type="checkbox"/> Other
TD - DTW x V x F = purge volume	
Explanation	
For 2" diameter well: V = 5, F = 0.17 gallon/foot	V = well volume
For 4" diameter well: V = 3, F = 0.66 gallon/foot	F = gallon of water per foot of casing

Field Parameters							
Time a.m. <input type="checkbox"/> p.m. <input checked="" type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature		ORP	Turbidity DU	Gallons pumped FE
			<input checked="" type="checkbox"/> °C	<input type="checkbox"/> °F			
Start							
5:45 a	7.2	507	22		130	2.17	3
5:51 F.							
5:57	7.26	495	22		114		6
6:03	7.21	523	21.9		119		9
							11.62

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): DIRTY

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEAM PAN @ SITE

Sampling Date: NOV 2, 05 Time: _____

CONFIDENTIAL
DUP
PVT

Well Development and Sampling Form

Job Name AC TRANSIT WELL WATER MONITORING / EMERGENCY SITE Well Number W-4

Job Number 0569/2 Date Nov 2, 05

Sample By _____

Purge Volume	Development/Purge Method(s)
Casing Diameter: 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> Other _____	<input type="checkbox"/> Swab <input type="checkbox"/> Surge Other _____
Total depth (TD) of casing in feet <u>16.99</u> +	<input type="checkbox"/> Bail Bailer Type: _____
Depth to water (DTW) in feet <u>4.7</u>	<input type="checkbox"/> Pump Pump Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Centrifuge
Purge Volume Calculation <u>(16.99 - 4.7) x 3 x 0.17 = 6.26</u> gallons	<input type="checkbox"/> Bladder <input type="checkbox"/> Other
TD - DTW x V x F = purge volume	

Explanation

For 2" diameter well: V = 5, F = 0.17 gallon/foot V = well volume
 For 4" diameter well: V = 3, F = 0.66 gallon/foot F = gallon of water per foot of casing

Field Parameters						
Time a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature [] °C [] °F	Turbidity		Gallons pumped
				CRP	DO	
Start						
5-01						1
5-03	7.45	869	23.2	120	1.62	197
5-07	7.34	858	23.1	124		3
5-11	7.30	852	23.1	125		5
5-13						7 Gal R/W

Total Gallons Pumped _____

Observations during purging (well condition, turbidity, color, odor): _____

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other Stream BAIC Site

Well Sampling Date: Nov 2, 05 Time: _____

574
5188
605

APPENDIX B

**CHAIN-OF-CUSTODY FORM
AND
LABORATORY REPORTS**



McC Campbell Analytical, Inc.

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Essel Technology Service

9778 Broadmoore Drive

San Ramon, CA 94523

Client Project ID: #0569/2; AC Transit
Div. 2

Client Contact: Sher Guha

Client P.O.:

Date Sampled: 11/03/05

Date Received: 11/04/05

Date Extracted: 11/06/05

Date Analyzed: 11/06/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511100

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-1	W	ND,i	1	108
002A	TRIP BLANK	W	ND	1	100

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
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 Website: www.mccampbell.com E-mail: main@mccampbell.com

Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511100

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511100-001A	MW-1	W	70,b,f,i	1	102


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

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

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

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

DHS Certification No. 1644

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511100

Lab ID	0511100-001B	Reporting Limit for DF =1	S	W
Client ID	MW-1			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	ug/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	4.5			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	103			
%SS2:	100			
%SS3:	104			
Comments	i			

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

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

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

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



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05-11/07/05
		Date Extracted: 11/04/05

Inorganic Anions by IC*

Extraction method: E300.1


Analytical methods: E300.1

Work Order: 0511100

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511100-001C	MW-1	W	ND	56	1	93

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001A	1/03/05 12:10 PM	11/06/05	11/06/05 1:57 AM	0511100-002A	11/03/05	11/06/05	11/06/05 2:30 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18898		Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001B	1/03/05 12:10 PM	11/05/05	11/05/05 5:50 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.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001A	1/03/05 12:10 PM	11/04/05	11/05/05 2:26 AM				

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


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

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

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

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

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: E300.1		Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115


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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001c	1/03/05 12:10 PM	11/04/05	11/05/05 3:44 AM	0511100-001C	1/03/05 12:10 PM	11/04/05	11/07/05 7:37 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.

DHS Certification No. 1644

 QA/QC Officer

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D

GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER GUNA Bill To: ESSECTEK
Company: ESSECTEK TECHNOLOGY SERVICES, INC.
9778 BRADSHIRE DR. SAN RAMON, CA 94583
E-Mail: ESSECTEK@SERVICES.ESSECTEK.COM
Tele: (415) 794-1960 Fax: (925) 833-7977
Project #: 0549/2 Project Name: ACTRANSIT DIV. 2
Project Location: EMERVILLE
Sampler Signature: _____

Analysis Request

Other

Comm

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE / BTEX & TPH as Gas (802 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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) <u>BTEX + MTBE</u>	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNA's)	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)	Migrate: <u>Substrate by EPA 300.0</u>	Filter Sampl for M analys Yes / N			
		Water	Soil			Air	Sludge	Other	ICE	HCL	HNO ₃	Other																							
MW101-06	<u>Emerville</u>	11/3	12:40	3	VOL						X																								
MW107-08			12:45	2	Ambo																		X												
MW109				1	Polys																														
TRIP BLANK				1	VOL						X																								

Relinquished By: <u>Sher Guna</u>	Date: <u>11/4</u>	Time: <u>10:15</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/M
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
VOAS O&G METALS OTHER
COMMENTS:



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	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/06/05
		Date Analyzed: 11/06/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511098

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-2	W	ND	1	101
002A	TRIP BLANK	W	ND	1	100

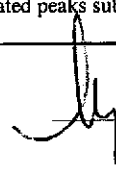
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

DHS Certification No. 1644

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	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511098

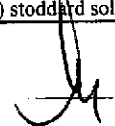
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511098-001A	MW-2	W	110,b	1	105

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

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

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

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

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	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511098

Lab ID	0511098-001B			Reporting Limit for DF = 1
Client ID	MW-2			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	ug/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	4.9			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	101			
%SS2:	100			
%SS3:	106			


Comments

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

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

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

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

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	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05-11/07/05

Inorganic Anions by IC*

Extraction method: E300.1

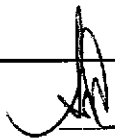
Analytical methods: E300.1

Work Order: 0511098

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511098-001C	MW-2	W	0.43	53	1	94

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001A	1/03/05 12:17 PM	11/06/05	1/06/05 12:51 AM	0511098-002A	11/03/05	11/06/05	11/06/05 1:24 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 applicable or 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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001B	1/03/05 12:17 PM	11/05/05	11/05/05 4:25 AM				

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

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

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

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.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8015C		Extraction: SW3510C				BatchID: 18894		Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

NONE

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001A	1/03/05 12:17 PM	11/04/05	1/05/05 12:05 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: E300.1		Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001c	1/03/05 12:17 PM	11/04/05	11/05/05 2:12 AM	0511098-001C	1/03/05 12:17 PM	11/04/05	11/07/05 6:36 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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CHAIN-OF-CUSTODY RECORD



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

WorkOrder: 0511098

ClientID: ETSR

EDF: NO

Report to:

Sher Guha
 Essel Technology Service
 9778 Broadmoore Drive
 San Ramon, CA 94523

TEL: (925) 833-7991
 FAX: (925) 833-7977
 ProjectNo: #0569/2; AC Transit Div. 2
 PO:

Bill to:

Sher Guha
 Essel Technology Service
 9778 Broadmoore Drive
 San Ramon, CA 94523

Requested TAT:

5 days

Date Received: 11/04/2005

Date Printed: 11/04/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
0511098-001	MW-2	Water	11/3/05 12:17:00	<input type="checkbox"/>	C	A	B											

Test Legend:

1	300_1_W	2	G-MBTEX_W	3	MBTEX-8260B_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

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



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511101

Lab ID	0511101-001B	Reporting Limit for DF=1	S	W
Client ID	MW-3			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	ug/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	3.2			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	102			
%SS2:	100			
%SS3:	107			

Comments

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

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

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

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



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

NONE

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001A	1/03/05 12:25 PM	11/06/05	11/06/05 4:41 AM	0511101-002A	11/03/05	11/06/05	11/06/05 5:13 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.

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



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001B	1/03/05 12:25 PM	11/05/05	11/05/05 6:32 AM				

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

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


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

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

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

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

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001A	1/03/05 12:25 PM	11/04/05	11/05/05 3:34 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: E300.1		Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001c	1/03/05 12:25 PM	11/04/05	11/05/05 4:15 AM	0511101-001C	1/03/05 12:25 PM	11/04/05	11/07/05 8:08 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.

DHS Certification No. 1644

 QA/QC Officer



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05-11/08/05
		Date Analyzed: 11/05/05-11/08/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511093

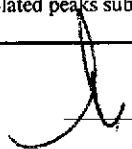
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-4	W	ND	1	109
002A	TRIP BLANK	W	ND	1	97

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

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

 Angela Rydelius, Lab Manager

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511093

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511093-001A	MW-4	W	ND	1	91

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

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

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0511093

Lab ID	0511093-001B	Reporting Limit for DF = 1	S	W
Client ID	MW-4			
Matrix	W			
DF	1			


Compound	Concentration			ug/kg	ug/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	4.1			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	102			
%SS2:	100			
%SS3:	104			

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.
 # surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.
 h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/04/05-11/07/05
		Date Extracted: 11/04/05

Inorganic Anions by IC*

Extraction method: E300.1

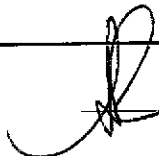
Analytical methods: E300.1

Work Order: 0511093

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511093-001C	MW-4	W	3.5	67	1	94

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001A	1/03/05 11:15 AM	11/08/05	11/08/05 3:25 AM	0511093-002A	1/03/05 11:15 AM	11/05/05	11/05/05 7:22 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 applicable or 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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001A	1/03/05 11:15 AM	11/04/05	11/05/05 6:59 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001B	1/03/05 11:15 AM	11/05/05	1/05/05 12:52 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.

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.

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: E300.1		Extraction: E300.1				BatchID: 18820			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001c	1/03/05 11:15 AM	11/04/05	1/04/05 11:38 PM	0511093-001C	1/03/05 11:15 AM	11/04/05	11/07/05 5:03 PM

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

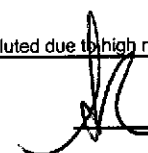
% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

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.

DHS Certification No. 1644

 QA/QC Officer

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Well # NW-4

CHAIN OF CUSTODY RECORD

TURN AROUND TIME
RUSH 24 HR 48 HR 72 HR 51
GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER GUHA Bill To: ESSECTEK
Company: ESSECTEK TECHNOLOGY SERVICES INC.
7772 BRIMMONDRE DR. SAN RAMON, CA. 94523
E-Mail: ESSECTEK@ESSECTEK.COM
Tele: (415) 794-1960 Fax: (925) 233-7977
Project #: 056912 Project Name: AC TRANSIT DIV. 2.
Project Location: EMERVILLE
Sampler Signature: _____

Analysis Request

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Other	Comments		
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
MW-101-06	Emerville	11/3	11-15	3	Vol						X	X						
MW-107-8				2	Amb						X	X						
MW-109				1	Poly						X	X						
TRIP BENCH				1	Vol						X							

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)
MTBE / BTEX ONLY (EPA 602 / 8021)
TPH as Diesel / Motor Oil (8015)
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)
Total Petroleum Hydrocarbons (418.1)
EPA 502.2 / 601 / 8010 / 8021 (HYOCs)
EPA 505 / 608 / 8081 (CI Pesticides)
EPA 608 / 8082 PCB's ONLY; Aroclors / Coageners
EPA 507 / 8141 (NP Pesticides)
EPA 515 / 8151 (Acidic CI Herbicides)
EPA 524.2 / 624 (8260) VOCs BTEX + MTBE
EPA 525.2 / 625 / 8270 (SVOCs)
EPA 8270 SIM / 8310 (PAHs / PNAHs)
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)
Nitrate / Sulfate by EPA 300.0

Relinquished By: <u>Sher Guha</u>	Date: <u>11/4</u>	Time: <u>11-15</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE# _____
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
COMMENTS:



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511094

Lab ID	0511094-001B	Reporting Limit for DF = 1	S	W
Client ID	MW-5			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	µg/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	5.7			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)


%SS1:	102			
%SS2:	102			
%SS3:	99			
Comments				

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

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

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

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


 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

NONE

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001A	1/03/05 12:00 PM	11/05/05	11/05/05 8:28 PM	0511094-002A	11/03/05	11/05/05	11/05/05 9:01 PM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001A	1/03/05 12:00 PM	11/04/05	11/07/05 4:06 PM				

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

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

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

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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001B	1/03/05 12:00 PM	11/05/05	11/05/05 1:35 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 E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: E300.1		Extraction: E300.1			BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001c	1/03/05 12:00 PM	11/04/05	1/05/05 12:09 AM	0511094-001C	1/03/05 12:00 PM	11/04/05	11/07/05 5:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 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.

DHS Certification No. 1644

QA/QC Officer

McCAMPBELL ANALYTICAL, INC.

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PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D.

GeoTracker EDF PDF Excel Write On (DW)

Report To: Sheri Costa Bill To: ESSECTEK
Company: ESSECTEK TECHNOLOGY SERVICES INC.
9779 BROADMOORE DR. SAN RAMON CA 94583
E-Mail: ESSECTEK@ESSECTEK.COM
Tele: (415) 794-1960 Fax: (925) 833-7977
Project #: 0569/2 Project Name: ACTENORIT DIV 2
Project Location: EMERSONVILLE
Sampler Signature: _____

Analysis Request

Other Comm

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comm				
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other							
NW501-06	Bumpville	11/3	12:00	3	VOA																
NW507-08				2	AOB																
NW509				1	Poly																
TRIP BUNK				1	VOA																

- MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)
- MTBE / BTEX ONLY (EPA 602 / 8021)
- TPH as Diesel / Motor Oil (8015)
- Total Petroleum Oil & Grease (1664 / 5520 E/B&F)
- Total Petroleum Hydrocarbons (418.1)
- EPA 502.2 / 601 / 8010 / 8021 (HVOCs)
- 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) BTEX + MTBE
- 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)

Nitrate: Sulfate by EPA 300.0

Filter
Sampl
for Me
analysis
Yes / N

Relinquished By: <u>Sheri Costa</u>	Date: <u>11/4</u>	Time: <u>11-15</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/IT
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:



McC Campbell Analytical, Inc.

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

Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ac Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted 11/06/05-11/09/05
		Date Analyzed 11/06/05-11/09/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511104

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-6	W	750.a	1	115
002A	Trip Blank	W	ND	1	101

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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



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Essel Technology Service
 9778 Broadmoore Drive
 San Ramon, CA 94523

Client Project ID: #056912; Ac Transit
 Div. 2
 Client Contact: Sher Guha
 Client P.O.:

Date Sampled: 11/03/05
 Date Received: 11/04/05
 Date Extracted: 11/04/05
 Date Analyzed: 11/07/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511104

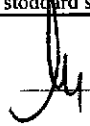
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511104-001A	MW-6	W	2000,k	5	105

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

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

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ac Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511104

Lab ID	0511104-001B	Reporting Limit for DF=1	S	W
Client ID	MW-6			
Matrix	W			
DF	1			

Compound	Concentration				ug/kg	µg/L
Benzene	13				NA	0.5
Ethylbenzene	2.9				NA	0.5
Methyl-t-butyl ether (MTBE)	1.4				NA	0.5
Toluene	1.9				NA	0.5
Xylenes	4.6				NA	0.5

Surrogate Recoveries (%)

%SS1:	90			
%SS2:	92			
%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 µg/wipe.

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

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

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



Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ac Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05-11/07/05

Inorganic Anions by IC*

Extraction method: E300.1

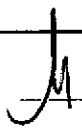
Analytical methods: E300.1

Work Order: 0511104

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511104-001C	MW-6	W	ND	16	1	95

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

* water samples 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.
surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001A	11/03/05 1:35 AM	11/09/05	1/09/05 12:30 PM	0511104-002A	11/03/05	11/06/05	11/06/05 6:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
^E TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001A	11/03/05 1:35 AM	11/04/05	11/07/05 4:06 PM				

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

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

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

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 Certification No. 1644

QA/QC Officer



McC Campbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001B	11/03/05 1:35 AM	11/07/05	11/07/05 1:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: E300.1		Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001c	11/03/05 1:35 AM	11/04/05	11/05/05 5:47 AM	0511104-001C	11/03/05 1:35 AM	11/04/05	11/07/05 9:09 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 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.

DHS Certification No. 1644

 QA/QC Officer

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D.

GeoTracker EDF PDF Excel Write On (DW)

Report To: *Sheri Gulla* Bill To: *Ryan P...*
 Company: *Daniel Technology Service Inc.*
9772 Brookside Dr. San Ramon, CA 94583
 E-Mail: *[unclear]*
 Tele: (415) 294-1960 Fax: (925) 233-7977
 Project #: *6502/2* Project Name: *AC HAVERT Div 2*
 Project Location: *EMERY VINE*
 Sampler Signature: _____

Analysis Request

Analysis Request	Other	Comm
MTBE/BTEX & TPH as Gas (602 / 8021 + 8015)		
MTBE / BTEX ONLY (EPA 602 / 8021)		
TPH as Diesel/ Motor Oil (8015)		
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)		
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 534.2 / 624 (260) VOCs BTEX + MTBE		
EPA 525.2 / 625 / 8270 (SVOCs)		
EPA 8270 SIM / 8310 (PAHs / PNAs)		
CAMI 17 Metals (200.7 / 200.8 / 6010 / 6020)		
LOFT 5 Metals (200.7 / 200.8 / 6010 / 6020)		
Lead (200.7 / 200.8 / 6010 / 6020)		
Nitrate: Sulfate by EPA 300.0		
		Filter Sampl for M analys Yes / N

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other	
X) N10601-06	Emery	1/3	1:35	3	VIA							X			
X) N10601-08				2	Amb										
X) N10609				1	Pack							X			
REP B. M...				1	VIA										

Relinquished By: *Sheri Gulla* Date: *1/4* Time: *11:15* Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE?
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/06/05-11/07/05
		Date Analyzed: 11/06/05-11/07/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511097

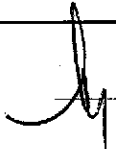
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-7	W	310,m	1	97
002A	Trip Blank	W	ND	1	100

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/04/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0511097


Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511097-001A	MW-7	W	140,d,b	1	103

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

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

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

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

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511097

Lab ID	0511097-001B	Reporting Limit for DF = 1	S	W
Client ID	MW-7			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	µg/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	2.3			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	102			
%SS2:	99			
%SS3:	110			


Comments

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

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

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

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

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Inorganic Anions by IC*

Extraction method: E300.1

Analytical methods: E300.1

Work Order: 0511097

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511097-001C	MW-7	W	ND	3.1	1	94

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001A	11/03/05 1:06 PM	11/07/05	11/07/05 6:52 PM	0511097-002A	11/03/05	11/06/05	1/06/05 12:19 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001A	11/03/05 1:06 PM	11/04/05	1/04/05 10:53 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001B	11/03/05 1:06 PM	11/07/05	11/07/05 5:31 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.

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



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: E300.1		Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001c	11/03/05 1:06 PM	11/04/05	11/05/05 1:41 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 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.

DHS Certification No. 1644

 QA/QC Officer



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
		Date Received: 11/04/05
	Client Contact: Sher Guha	Date Extracted: 11/05/05-11/09/05
	Client P.O.:	Date Analyzed: 11/05/05-11/09/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511092

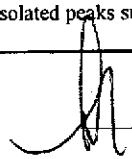
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-8	W	150,m	1	100
002A	Trip Blank	W	ND	1	98

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service
 9778 Broadmoore Drive
 San Ramon, CA 94523

Client Project ID: #056912; AC
 Transit Div. 2

Client Contact: Sher Guha

Client P.O.:

Date Sampled: 11/03/05

Date Received: 11/04/05

Date Extracted: 11/04/05

Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511092

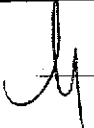
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511092-001A	MW-8	W	280,d,b	1	92

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

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

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05
		Date Extracted: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511092

Lab ID	0511092-001B				Reporting Limit for DF = 1	
Client ID	MW-8					
Matrix	W					
DF	1				S W	
Compound	Concentration				ug/kg	µg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	0.69				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	100			
%SS2:	98			
%SS3:	106			

Comments

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

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

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

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



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/04/05-11/07/05

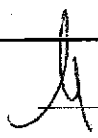
Inorganic Anions by IC*

Extraction method: E300.1 Analytical methods: E300.1 Work Order: 0511092

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511092-001C	MW-8	W	ND	24	1	110

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001A	1/03/05 12:45 PM	11/05/05	11/05/05 3:59 PM	0511092-002A	11/03/05	11/09/05	11/09/05 6:45 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 applicable or 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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001A	1/03/05 12:45 PM	11/04/05	11/05/05 5:51 AM				

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


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

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

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

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

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001B	1/03/05 12:45 PM	11/05/05	1/05/05 12:10 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.

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



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: E300.1		Extraction: E300.1			BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001c	1/03/05 12:45 PM	11/04/05	1/04/05 11:08 AM	0511092-001C	1/03/05 12:45 PM	11/04/05	11/07/05 4:33 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.

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.

DHS Certification No. 1644

 QA/QC Officer

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REC # MW: 8

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D

GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER COVA Bill To: ESSE TEK.
 Company: ESSE TECHNOLOGY SERVICES INC.
9772 BRANDHOPE DR. SAN RAMON CA. 94583
 E-Mail: ESSE-TEK@ESSE-TEK.COM
 Tele: (415) 794-1960 Fax: (925) 833-7977
 Project #: 656912 Project Name: AC Transit Div 2
 Project Location: EMERYVILLE
 Sampler Signature: _____

Analysis Request

Analysis Request	Other	Comments
MTBE + BTEX & TPH as Gas (602 / 8021 + 8015)		
MTBE / BTEX ONLY (EPA 602 / 8021)		
TPH as Diesel / Motor Oil (8015)		
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)		
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) BTEX + MTBE		
EPA 525.2 / 625 / 8270 (SVOCs)		
EPA 8270 SIM / 8310 (PAHs / PNAH)		
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)		
<u>MTBE + Sulfate by EPA 800.0</u>		

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
NW801-06	Emeryville	11/9	12:45	3	Ver							X					
NW807-08				2	AMB												
NW809				1	OPY							X					
Trap Drain				1	Ver												X

Relinquished By: Sher Cova Date: 11/4 Time: 11-15 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/°
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB

COMMENTS:



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511103

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-9	W	ND	1	105
002A	TRIP BLANK	W	ND	1	103


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

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

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
		Date Received: 11/04/05
	Client Contact: Sher Guha	Date Extracted: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511103

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511103-001A	MW-9	W	470,g,b	1	106

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

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

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

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

Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511103

Lab ID	0511103-001B			Reporting Limit for DF=1	
Client ID	MW-9				
Matrix	W				
DF	1	S	W		
Compound	Concentration			ug/kg	µg/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	4.8			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

%SS1:	108			
%SS2:	105			
%SS3:	105			
Comments				

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

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

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

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



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05-11/07/05

Inorganic Anions by IC*

Extraction method: E300.1

Analytical methods: E300.1

Work Order: 0511103


Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511103-001C	MW-9	W	0.11	28	1	91

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

* water samples 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.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 18903 Spiked Sample ID: 0511100-002A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

NONE

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001A	1/03/05 12:30 PM	11/07/05	11/07/05 8:28 PM	0511103-002A	11/03/05	11/07/05	11/07/05 7:58 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.

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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001A	1/03/05 12:30 PM	11/04/05	11/05/05 6:59 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001B	1/03/05 12:30 PM	11/07/05	11/07/05 9:41 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.

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.



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: E300.1		Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001c	1/03/05 12:30 PM	11/04/05	11/05/05 5:16 AM	0511103-001C	1/03/05 12:30 PM	11/04/05	11/07/05 8:39 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 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.

DHS Certification No. 1644

 QA/QC Officer

051105

McCAMPBELL ANALYTICAL, INC.

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 Telephone: (877) 798-1620 Fax: (925) 798-1622

Well # NW-9

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D.

GeoTracker EDF PDF Excel Write On (DW)

Report To: Sher Galt Bill To: ESSECTEK

Company: ESSEE TECHNOLOGY SERVICE INC.

9172 BRIDGEMORE DR.
SAN RAMON, CA 94580 E-Mail: ESSECTEK.SERVICES@csul.com

Tele: (415) 744-1960 Fax: (925) 833-7917

Project #: 056912 Project Name: ACTRANSIT DIV. 2

Project Location: EMERYVILLE

Sampler Signature: _____

Analysis Request

Other Comir

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
TPH as Diesel / Motor Oil (8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	
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 / (6160 NVOCs) <u>DTX + MTBE</u>	
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)	
<u>Nickel: Sulfate by EPA 300.0</u>	

Filter
 Sampl
 for Me
 analys
 Yes / N

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other		
NW901 - 06	Emeryville	11/3	12:30	3	VOL								X			
NW907 08			12:36	2	Auto											X
NW909				1	10g								X			
TRIP Blank				1	Vol											

Relinquished By: <u>Sher Galt</u>	Date: <u>11/8</u>	Time: <u>1:15</u>	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS: _____



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511096

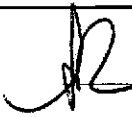
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-10	W	300,m	1	110
002A	TRIP BLANK	W	ND	1	100

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/07/05
		Date Extracted: 11/04/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511096

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511096-001A	MW-10	W	600,a	1	92

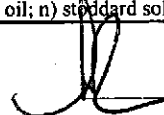
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

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

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511096

Lab ID	0511096-001B				Reporting Limit for DF =1
Client ID	MW-10				
Matrix	W				
DF	1				

Compound	Concentration				ug/kg	µg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	4.1				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	101			
%SS2:	100			
%SS3:	110			


Comments

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

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

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service
9778 Broadmoore Drive
San Ramon, CA 94523

Client Project ID: #0569/2; AC Transit
Div. 2
Client Contact: Sher Guha
Client P.O.:

Date Sampled: 11/03/05
Date Received: 11/04/05
Date Extracted: 11/04/05
Date Analyzed: 11/05/05

Inorganic Anions by IC*

Extraction method: E300.1

Analytical methods: E300.1

Work Order: 0511096

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511096-001C	MW-10	W	ND	0.78	1	92

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

* water samples 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.
surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

NONE

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001A	11/03/05 2:15 AM	11/05/05	1/05/05 10:40 PM	0511096-002A	11/03/05	11/05/05	1/05/05 11:13 PM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001A	11/03/05 2:15 AM	11/04/05	11/07/05 2:58 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.
 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 Certification No. 1644

QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001B	11/03/05 2:15 AM	11/07/05	11/07/05 4:49 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.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: E300.1		Extraction: E300.1			BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

NONE

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001c	11/03/05 2:15 AM	11/04/05	11/05/05 1:10 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 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.

DHS Certification No. 1644

 QA/QC Officer

NEC# MN - 10

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME 5

RUSH 24 HR 48 HR 72 HR 5 L

GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER GUNA Bill To: ESSE TEK.
Company: ESSE TECHNOLOGY SERVICE INC.
2778 BROADMOORE DR.
SAN RAMON, CA. 94583. E-Mail: ESSE.TEK.SERVICE@AOL.COM
Tele: (415) 794-1960 Fax: (925) 233-7977
Project #: 0569/2. Project Name: Ac Trans. Dig 2.
Project Location: 1774 47th St. EMERVILLE - CA.
Sampler Signature: _____

Analysis Request

MTBE/BTEX & TPH as Gas (801 / 802 / 8011 + 8015)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
TPH as Diesel / Motor Oil (8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	
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 / 8160 (VOCs) <u>BTEX + MTBS</u>	
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)	
Nitrate / Sulfate by EPA 300.0	

Filter Samp for M analy Yes /

SAMPLE ID	LOCATION Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED									
		Date	Time Pm.			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other						
NW1001-06)	EMERVILLE	11/3	2:15	3	VOA								X	X						
NW1007 (08)				2	Amb.								X	X						
NW1009				1	Poly								X	X						
TRIP QUIN				1	VOA															

Relinquished By: <u>Sher Guna</u>	Date: <u>11/4</u>	Time: <u>11:15</u>	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICEK _____
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____

COMMENTS: _____

VOAS O&G METALS OTHER



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ae Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/06/05-11/09/05
		Date Analyzed: 11/06/05-11/09/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511099

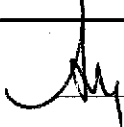
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-11	W	ND,i	1	94
002A	Trip Blank	W	ND	1	102

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

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

 Angela Rydelius, Lab Manager



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

Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ae Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511099

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511099-001A	MW-11	W	290,g,b,i	1	100


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

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

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

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

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ae Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511099

Lab ID	0511099-001B	Reporting Limit for DF =1	S	W
Client ID	MW-11			
Matrix	W			
DF	1			

Compound	Concentration				ug/kg	ug/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	100			
%SS2:	101			
%SS3:	106			

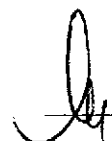
Comments

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

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

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; Ae Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05-11/07/05
		Date Extracted: 11/04/05

Inorganic Anions by IC*

Extraction method: E300.1

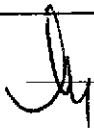
Analytical methods: E300.1

Work Order: 0511099

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511099-001C	MW-11	W	ND	21	1	93

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.


 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

NONE

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001A	1/03/05 12:17 PM	11/06/05	1/06/05 12:51 AM	0511098-002A	11/03/05	11/06/05	11/06/05 1:24 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511099

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511099-001A	11/03/05 1:25 PM	11/04/05	11/05/05 1:17 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001B	1/03/05 12:17 PM	11/05/05	11/05/05 4:25 AM				

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

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


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

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.

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511099

EPA Method: E300.1		Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511099-001c	11/03/05 1:25 PM	11/04/05	11/05/05 2:43 AM	0511099-001C	11/03/05 1:25 PM	11/04/05	11/07/05 7:06 PM

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


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

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

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.

DHS Certification No. 1644

 QA/QC Officer

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D.

GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER GUHA Bill To: ESSEX
Company: ESSEX TECHNOLOGY SERVICE INC.
9172 BROADMOOR DR. SAN RAMON, CA 94583
E-Mail: ESSEXTECHSERVICE@aol.com
Tele: (415) 794-1960 Fax: (925) 803-7977
Project #: 056912 Project Name: IN TRANSIT DIV. 2
Project Location: EMERVILLE
Sampler Signature: _____

Analysis Request

Other

Comm

MTBE/BTEX & TPH as Gas (802 / 8021 + 8015)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
TPH as Diesel/ Motor Oil (8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	
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 (260 VOCs) <u>BTEX + MTBE</u>	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNA's)	
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)	
<u>Nitrate / Sulfate by EPA 300.0</u>	

Filter
Sample
for Me
analysis
Yes / N

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
+S MW1101 -06	Emerville	11/9	1:25	3	Vol							X	X					
+S MW1107 08				2	Ampl													
+S MW1109				1	Pl							X	X					
TRIP BLANKS				1	Vol													

Relinquished By: <u>[Signature]</u>	Date: <u>11/4</u>	Time: <u>11:50</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE#
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:



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Essel Technology Service

9778 Broadmoore Drive

San Ramon, CA 94523

Client Project ID: #056912; AC
 Transit Div.2

Client Contact: Sher Guha

Client P.O.:

Date Sampled: 11/03/05

Date Received: 11/04/05

Date Extracted: 11/06/05-11/07/05

Date Analyzed: 11/06/05-11/07/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511105

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-12	W	440,m,i	1	111
002A	Trip Blank	W	ND	1	100

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05
		Date Extracted: 11/04/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511105

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511105-001A	MW-12	W	120,d,b,i	1	93

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

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

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

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

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511105

Lab ID	0511105-001B	Reporting Limit for DF=1	S	W
Client ID	MW-12			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	µg/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	6.6			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5

Surrogate Recoveries (%)

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

Comments

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

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

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

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



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	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Inorganic Anions by IC*

Extraction method: E300.1

Analytical methods: E300.1

Work Order: 0511105


Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511105-001C	MW-12	W	ND	3.7	1	93

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

* water samples 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.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001A	11/03/05	11/07/05	11/07/05 8:58 PM	0511105-002A	11/03/05	11/06/05	11/06/05 7:24 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 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.
^E TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001A	11/03/05	11/04/05	11/05/05 3:34 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18905		Spiked Sample ID: 0511114-004A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	101	99.3	1.77	97.2	96.8	0.382	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	98.5	2.92	94.4	94.4	0	70 - 130	70 - 130
Toluene	ND	10	111	109	2.09	88.6	88.2	0.372	70 - 130	70 - 130
%SS1:	103	10	100	100	0	98	99	1.83	70 - 130	70 - 130
%SS2:	95	10	100	100	0	96	96	0	70 - 130	70 - 130
%SS3:	96	10	104	103	0.465	104	100	4.07	70 - 130	70 - 130

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

BATCH 18905 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001B	11/03/05	11/07/05	11/07/05 3:23 PM				

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

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


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

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

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

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

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: E300.1		Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001c	11/03/05	11/04/05	11/05/05 6:18 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.

DHS Certification No. 1644

 QA/QC Officer

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 L

GeoTracker EDF PDF Excel Write On (DW)

Report To: *Steve Guma* Bill To: *ES&E*
Company: *ES&E Technical Service Inc.*
7772 PRINCEDALE DR.
San Ramon E-Mail: *ES&E@ES&E.COM*
Tel: *(925) 744-1900* Fax: *(925) 633-7477*
Project #: *050912* Project Name: *INTERMIT D# 2*
Project Location: *1774 47th St, Emeryville, CA*
Sampler Signature: _____

Analysis Request

Other Com

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		Analysis Request	Other	Com	Filter Smp for M analy Yes/	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL					HNO ₃
41 N/W 12 01 00	Emeryville	11/3	2:35	3	VOL												
41 N/W 12 07 08				2	Ampl												
41 N/W 12 09				1	Plastic												
TRIP GUMMA				1	VOL												

Relinquished By: *Steve Guma* Date: *11/4* Time: *11:15* Received By: *[Signature]*
Relinquished By: _____ Date: _____ Time: _____ Received By: _____
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓

COMMENTS: *Nitrate i Sulphate by EPA 300.0*



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Essel Technology Service
9778 Broadmoore Drive
San Ramon, CA 94523

Client Project ID: #056912; AcTransit
Div.2

Date Sampled: 11/03/05
Date Received: 11/04/05
Date Extracted: 11/06/05-11/07/05
Date Analyzed: 11/06/05-11/07/05

Client Contact: Sher Guha
Client P.O.:

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511102

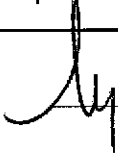
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	W-1	W	6200,a,i	3.3	102
002A	Trip Blank	W	ND	1	101

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AcTransit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received:
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel (C10-23) Range Extractable Hydrocarbons as Diesel*

Analytical methods: SW8015C

Work Order: 0511102

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511102-001A	W-1	W	2400,n,i	10	105

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

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

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

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

DHS Certification No. 1644

A Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AcTransit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/07/05
		Date Analyzed: 11/07/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511102

Lab ID	0511102-001B	Reporting Limit for DF = 1	S	W
Client ID	W-1			
Matrix	W			
DF	1			

Compound	Concentration			ug/kg	µg/L
Benzene	7.2			NA	0.5
Ethylbenzene	5.7			NA	0.5
Methyl-t-butyl ether (MTBE)	0.73			NA	0.5
Toluene	3.6			NA	0.5
Xylenes	20			NA	0.5

Surrogate Recoveries (%)

%SS1:	94			
%SS2:	101			
%SS3:	123			


Comments

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

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

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AcTransit Div.2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Inorganic Anions by IC*

Extraction method: E300.1

Analytical methods: E300.1

Work Order: 0511102

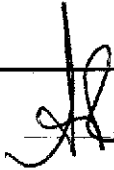
Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511102-001C	W-1	W	0.14	1.3	1	93

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

* water samples 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.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.


 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

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

NONE

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001A	11/03/05 2:05 AM	11/07/05	11/07/05 9:40 PM	0511102-002A	11/03/05	11/06/05	11/06/05 6:19 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.

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



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001B	11/03/05 2:05 AM	11/07/05	11/07/05 4:06 PM				

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

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

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

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.

DHS Certification No. 1644

QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001A	11/03/05 2:05 AM	11/04/05	11/05/05 4:43 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.

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: E300.1		Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

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

BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001c	11/03/05 2:05 AM	11/04/05	11/05/05 4:45 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.

DHS Certification No. 1644

 QA/QC Officer

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DA

GeoTracker EDF PDF Excel Write On (DW)

W-1 0511102 ETSR

Report To: SHER CASHA Bill To: ESSEE TEK
Company: ESSEE TECHNOLOGY SERVICE INC.
9778 BRANDMOORE DR. SAN RAMON, CA. 94583.
E-Mail: ESSEE@ESSEE-SERVICES.COM
Tele: (415) 794-1960 Fax: (925) 833-7917
Project #: 056912 Project Name: AC TRANSIT DIV. 2.
Project Location: EMERVILLE.
Sampler Signature: _____

Analysis Request

Other Comm

Analysis Request	Other	Comm
MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)		
MTBE / BTEX ONLY (EPA 602 / 8021)		
TPH as Diesel / Motor Oil (8015)		
Total Petroleum Oil & Grease (1664 / 5520 E/B.&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)		
EPA 505 / 608 / 8081 (Cl Pesticides)		
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners		
EPA 507 / 8141 (NP Pesticides)		
EPA 515 / 8151 (Acilic Cl Herbicides)		
EPA 524.2 / 624 (260 VOCs) BTEX + MTBE		
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)		
Note: Sulfate by EPA 300.0		

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED								
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other					
+ W101-06	Emerville	4/3	205	3	Via							X	X						
+ W107-08				2	Amb.							X	X						
+ W109				1	Reg							X	X						
TRIP CLEAN				1	Via														

Relinquished By: [Signature] Date: 4/4 Time: 11-0 Received By: [Signature]
Relinquished By: _____ Date: _____ Time: _____ Received By: _____
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/°
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
COMMENTS: _____
VOAS O&G METALS OTHER



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transite Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05-11/06/05
		Date Extracted: 11/05/05-11/06/05

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

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0511091

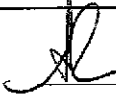
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	W-3	W	ND,i	1	103
002A	TRIP BLANK	W	ND	1	98

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

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

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transite Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/05/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511091

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511091-001A	W-3	W	ND,i	1	91

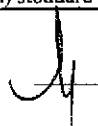
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

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

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transite Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/04/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511091

Lab ID	0511091-001B				
Client ID	W-3				Reporting Limit for DF =1
Matrix	W				
DF	1				

Compound	Concentration				ug/kg	µg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	1.2				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)


%SS1:	103				
%SS2:	100				
%SS3:	103				
Comments	i				

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

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

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

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

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #0569/2; AC Transite Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/04/05-11/07/05

Inorganic Anions by IC*

Extraction method: E300.1

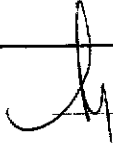
Analytical methods: E300.1

Work Order: 0511091

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511091-001C	W-3	W	3.7	51	1	94

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

NONE

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001A	1/03/05 10:30 AM	11/06/05	11/06/05 4:36 AM	0511091-002A	11/03/05	11/05/05	11/05/05 6:48 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or 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 Certification No. 1644

QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001a	1/03/05 10:30 AM	11/04/05	11/05/05 4:43 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.

DHS Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001B	1/03/05 10:30 AM	11/04/05	1/04/05 11:28 PM				

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

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


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

N/A = not 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.

DHS Certification No. 1644

 QA/QC Officer



QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: E300.1	Extraction: E300.1					BatchID: 18820			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

NONE

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001c	1/03/05 10:30 AM	11/04/05	1/04/05 10:37 PM	0511091-001C	1/03/05 10:30 AM	11/04/05	11/07/05 9:40 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

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Website: www.mccampbell.com Email: main@mccampbell.com
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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 D

GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER GUITA Bill To: ESSELTEK
Company: ESSEL TECHNOLOGY SERVICES INC.
9778 BRAND MOORE DR. SAN RAMON, CA. 94583
E-Mail: ESSELTEK@ESSELTEK.COM
Tele: (415) 794-1960 Fax: (925) 833-2997
Project #: 0569/2 Project Name: ACTRANSIT DIV 2
Project Location: EMERVINE
Sampler Signature: _____

Analysis Request

Other Comm

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE/BTEX & TPH as Gas (802 / 801 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/R&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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 (8160 NOCs) BTEX+MTBE	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAHs)	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)	Nitrate / Sulfate by EPA 300.0	Filter Sampl for M analysis Yes / No			
		Water	Soil			Air	Sludge	Other	ICE	HCL	HNO ₃	Other																							
W-301 -06	Emerve	1/3	10-30	3	VGA						X	X																							
W307-08		2 Apr	11-	2	200						X	X																							
W309		1 Apr	11	1	100						X	X																							
TRIP BLANK				1							X																								

Relinquished By: Sher Guita Date: 11/4 Time: 11-15 Received By: [Signature]
Relinquished By: _____ Date: _____ Time: _____ Received By: _____
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/M
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
COMMENTS: _____
VOAS O&G METALS OTHER



McC Campbell Analytical, Inc.

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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
		Date Received: 11/04/05
	Client Contact: Sher Guha	Date Extracted: 11/05/05-11/07/05
	Client P.O.:	Date Analyzed: 11/05/05-11/07/05

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0511095

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	W-4	W	ND	1	100
002A	Trip Blank	W	ND	1	101

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/04/05
		Date Analyzed: 11/04/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0511095

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0511095-001A	W-4	W	66,b	1	101

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

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

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

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

[Signature]
Angela Rydelius, Lab Manager



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Extracted: 11/05/05
		Date Analyzed: 11/05/05

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0511095

Lab ID	0511095-001B				Reporting Limit for DF =1
Client ID	W-4				
Matrix	W				
DF	1				

Compound	Concentration				ug/kg	µg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	2.0				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	102			
%SS2:	101			
%SS3:	102			

Comments

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

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

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

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



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Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: #056912; AC Transit Div. 2	Date Sampled: 11/03/05
	Client Contact: Sher Guha	Date Received: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05-11/07/05
		Date Extracted: 11/04/05

Inorganic Anions by IC*

Extraction method: E300.1

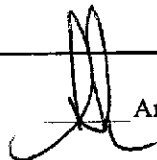
Analytical methods: E300.1

Work Order: 0511095

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511095-001C	W-4	W	ND	32	1	93

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

* water samples 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.
 # surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.
 h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

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

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001A	11/03/05 1:25 PM	11/07/05	1/07/05 11:54 PM	0511095-002A	11/03/05	11/05/05	1/05/05 10:07 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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 applicable or 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 Certification No. 1644

NR QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8015C		Extraction: SW3510C				BatchID: 18894		Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130


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

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001a	11/03/05 1:25 PM	11/04/05	11/04/05 9:45 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 Certification No. 1644

 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

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

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001B	11/03/05 1:25 PM	11/05/05	11/05/05 2:17 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.

DHS Certification No. 1644

QA/QC Officer



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: E300.1		Extraction: E300.1				BatchID: 18820			Spiked Sample ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

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

BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001c	11/03/05 1:25 PM	11/04/05	1/05/05 12:40 AM	0511095-001C	11/03/05 1:25 PM	11/04/05	11/07/05 6:05 PM

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


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

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

N/A = not 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.

DHS Certification No. 1644

 QA/QC Officer

4758 0511095
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CHAIN OF CUSTODY RECORD

TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 D
GeoTracker EDF PDF Excel Write On (DW)

Report To: SHER Gelwa Bill To:
Company: ESSEE TECHNOLOGY SERVICE INC.
9778 BRANDMORE DR. SAN RAMON, CA. 94583
E-Mail: ESSEESERVICE@aol.com
Tele: (415) 744-1960 Fax: (925) 833-7977
Project #: 0569/2 Project Name: Ac TRANSIT Div. 2.
Project Location: EMERYVILLE
Sampler Signature:

Analysis Request

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE/BTEX & TPH as Gas (802 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCS)	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) <u>BTEX + MTBE</u>	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)	Nitrate; Sulfate; by EPA 300.0	Other	Comm				
		Water	Soil			Air	Sludge	Other	ICE	HCL	HNO ₃	Other																									
W401 00	<u>Emeryville</u>	<u>11/3</u>	<u>1:45</u>	<u>3</u>	<u>VOL</u>						X	X																									
W407 02				<u>2</u>	<u>Ambe</u>							X	X																								
W409				<u>1</u>	<u>ppg</u>						X	X																									
TRIP Blank				<u>1</u>	<u>VOL</u>																																

Relinquished By:	Date:	Time:	Received By:
<u>Sher Gelwa</u>	<u>11/4</u>	<u>11:15</u>	<u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICEA*
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:
VOAS O&G METALS OTHER