



RECEIVED
By dehloptoxic at 1:09 pm, Jan 09, 2007

Alameda-Contra Costa Transit District

January 8, 2007

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

Dear Mr. Plunkett:

Subject: Groundwater Monitoring Report – August 2006
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. The report was prepared by our consultant, Esseltech, and contains the results of groundwater monitoring performed on August 27, 2006, of two on-site monitoring wells.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

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
AUGUST 2006
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. 0569/4

December 2006

**GROUND-WATER MONITORING
IN
AUGUST 2006
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 August 2006.

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 Avenue 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 August 27, 2006 to measure the water level in wells MW-11 and MW-12 and to purge the wells for ground-water sampling. The depth to the static ground-water surface in each well was measured to the nearest 0.01-foot using an electronic water-level indicator. Following water-level measurements, the two wells were purged of water using a submersible pump and discharge hose. Approximately three casing volumes of water were pumped from each well. 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 two wells on August 27, 2006. 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 and to clean, 1-liter brown glass liter bottles containing sulfuric acid as a preservative. 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 a Chain-of-Custody form for the ground-water samples collected and this form accompanied the samples to the laboratory. A copy of the Chain-of-Custody form is 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 8015C, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8021B.

3.0 RESULTS OF MONITORING AND SAMPLING

3.1 Ground-Water Monitoring

The measured depths to the static ground-water surface in wells MW-11 and MW-12 were 3.00 and 10.50 feet below the tops of the respective well casings on August 27, 2006. Essel Tech used wellhead elevation data and depth-to-water measurements made on August 27, 2006 to calculate the elevation of the ground-water surface, which was 26.93 and 18.18 feet above mean sea level at the locations of wells MW-11 and MW-12, respectively. Table 1 presents the August 27, 2006 water-level data for the two wells and also presents cumulative data on product thickness, depth to ground water, and ground-water elevation for the 16 wells at the site.

3.2 Laboratory Analyses

Results of laboratory analyses show gasoline-range hydrocarbons (i.e., TPHg) were not detected in well MW-11 and were detected at 530 parts per billion [ppb] in the water sample from well MW-12. Diesel-range hydrocarbons (i.e., TPHd) were detected in well MW-11 at a concentration of 57 ppb and in well MW-12 at a concentration of 120 ppb.

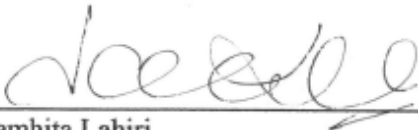
No BTEX was detected in the water samples from either well MW-11 or MW-12. The fuel oxygenate MTBE also was not detected in well MW-11; however, was found at a concentration of 6.6 ppb in the water sample from well MW-12. Table 2 presents the results of analyses of water samples collected from the two wells on August 27, 2006 and the cumulative laboratory analytical results since November 2005 for site wells. Appendix B contains copies of the laboratory report of analyses for the August 27, 2006 monitoring event.

4.0 RECOMMENDATIONS

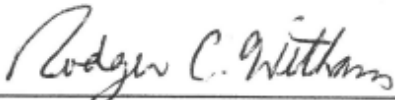
Essel Tech recommends that ground-water monitoring and sampling continue on a quarterly basis. The next sampling event should be scheduled for November 2006 and would include measuring depth to water and product thickness in the 16 ground-water-monitoring wells and purging and sampling the 16 wells for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

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

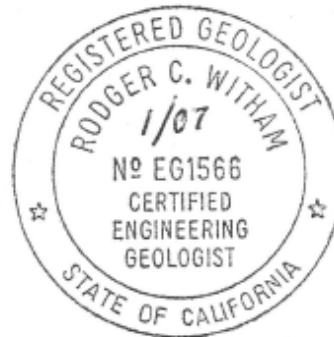


Table 1: Well Monitoring Data

Table 2: Results of Laboratory Analyses of Ground-Water Samples

Plate 1: Site Vicinity Map

Plate 2: Site Plan

Appendix A: Well Development and Sampling Forms

Appendix B: Chain-of-Custody Form and Laboratory Report

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
	05/28/06	32.56	0.00	4.05	28.51	28.51
MW-2	11/02/05	32.12	0.00	4.65	27.47	27.47
	05/28/06	32.12	0.00	3.55	28.57	28.57
MW-3	11/02/05	34.06	0.00	6.21	27.85	27.85
	05/28/06	34.06	0.00	4.95	29.11	29.11
MW-4	11/02/05	34.11	0.00	6.30	27.81	27.81
	05/28/06	34.11	0.00	5.15	28.96	28.96
MW-5	11/02/05	31.70	0.00	4.55	27.15	27.15
	05/28/06	31.70	0.00	3.62	28.08	28.08
MW-6	11/02/05	31.02	0.00	4.21	26.81	26.81
	05/28/06	31.02	0.00	3.00	28.02	28.02
MW-7	11/02/05	29.62	0.00	5.50	24.12	24.12
	05/28/06	29.62	0.00	4.25	25.37	25.37
MW-8	11/02/05	29.43	0.00	5.05	24.38	24.38
	05/28/06	29.43	0.00	4.95	24.48	24.48
MW-9	11/02/05	29.18	0.00	4.26	24.92	24.92
	05/28/06	29.18	0.00	3.70	25.48	25.48
MW-10	11/02/05	29.13	0.00	9.81	19.32	19.32
	05/28/06	29.13	0.00	9.55	19.58	19.58
MW-11	11/02/05	29.93	0.00	4.30	25.63	25.63
	02/22/06	29.93	0.00	2.50	27.43	27.43
	05/28/06	29.93	0.00	2.85	27.08	27.08
	08/27/06	29.93	0.00	3.00	26.93	26.93
MW-12	11/02/05	28.68	0.00	10.76	17.92	17.92
	02/22/06	28.68	0.00	10.50	18.18	18.18
	05/28/06	28.68	0.00	10.82	17.86	17.86
	08/27/06	28.68	0.00	10.50	18.18	18.18
MW-13	11/02/05	22.72	0.063	9.10	13.62	13.67
	02/22/06	22.72	0.167	NM	NM	NM
	05/28/06	22.72	NM	NM	NM	NM
W-1	11/02/05	33.43	0.00	6.59	26.84	26.84
	05/28/06	33.43	0.00	5.15	28.28	28.28
W-3	11/02/05	37.46	0.00	8.24	29.22	29.22
	05/28/06	37.46	0.00	6.32	31.14	31.14
W-4	11/02/05	31.72	0.00	4.70	27.02	27.02
	05/28/06	31.72	0.00	4.50	27.22	27.22

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.

NM = not measured

#Multiply product thickness by specific gravity of 0.8 and add to ground-water surface 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
	5/29/06	<50	89	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	5,400	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
	5/29/06	<50	70	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	6,800	60
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
	5/29/06	<50	180	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	4,600	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
	5/29/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	4,900	0
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
	5/29/06	<50	200	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	4,900	40
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
	5/29/06	2,700	12,000	NA	55	5.7	16	26	<15	NA	NA	4,900	20
MW-7	11/03/05	310	140	NA	<0.5	<0.5	<0.5	<0.5	2.3	<100	3,100	3,190	30
	5/29/06	260	120	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	Anomalous	60
MW-8	11/03/05	150	280	NA	<0.5	<0.5	<0.5	<0.5	0.69	<100	24,000	1,630	860
	5/29/06	<50	150	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	8,300	40
MW-9	11/03/05	<50	470	NA	<0.5	<0.5	<0.5	<0.5	4.8	110	28,000	1,720	450
	5/29/06	<50	190	NA	<0.5	<0.5	<0.5	<0.5	5.2	NA	NA	8,600	0

See notes on page 2 of 2.

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-10	11/03/05	300	600	NA	<0.5	<0.5	<0.5	<0.5	4.1	<100	780	2,350	2,670
	5/29/06	140	540	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	5,600	10
MW-11	11/03/05	<50	290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<100	21,000	1,360	0
	02/22/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<100	27,000	100	0
	5/29/06	<50	250	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	6,000	100
	8/27/06	<50	57	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	100	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
	02/22/06	400	140	NA	<0.5	<0.5	<0.5	<0.5	7.8	<100	7,600	90	NM
	5/29/06	310	140	NA	<0.5	<0.5	<0.5	<0.5	5.7	NA	NA	7,200	10
	8/27/06	530	120	NA	<0.5	<0.5	<0.5	<0.5	6.6	NA	NA	90	720
MW-13	11/03/05	Not sampled - free-phase product in well											
	02/22/06	Not sampled - free-phase product in well											
	5/29/06	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
	5/29/06	4,600	1,700	NA	18	4.4	17	32	<17	NM	NM	4,500	60
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
	5/29/06	<50	240	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NM	NM	Anomalous	50
W-4	11/03/05	<50	66	NA	<0.5	<0.5	<0.5	<0.5	2.0	<100	32,000	1,620	970
	5/29/06	<50	110	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NM	NM	NM	NM

Results are 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

NA = not analyzed

NM = not measured

< = less than the laboratory method detection limit

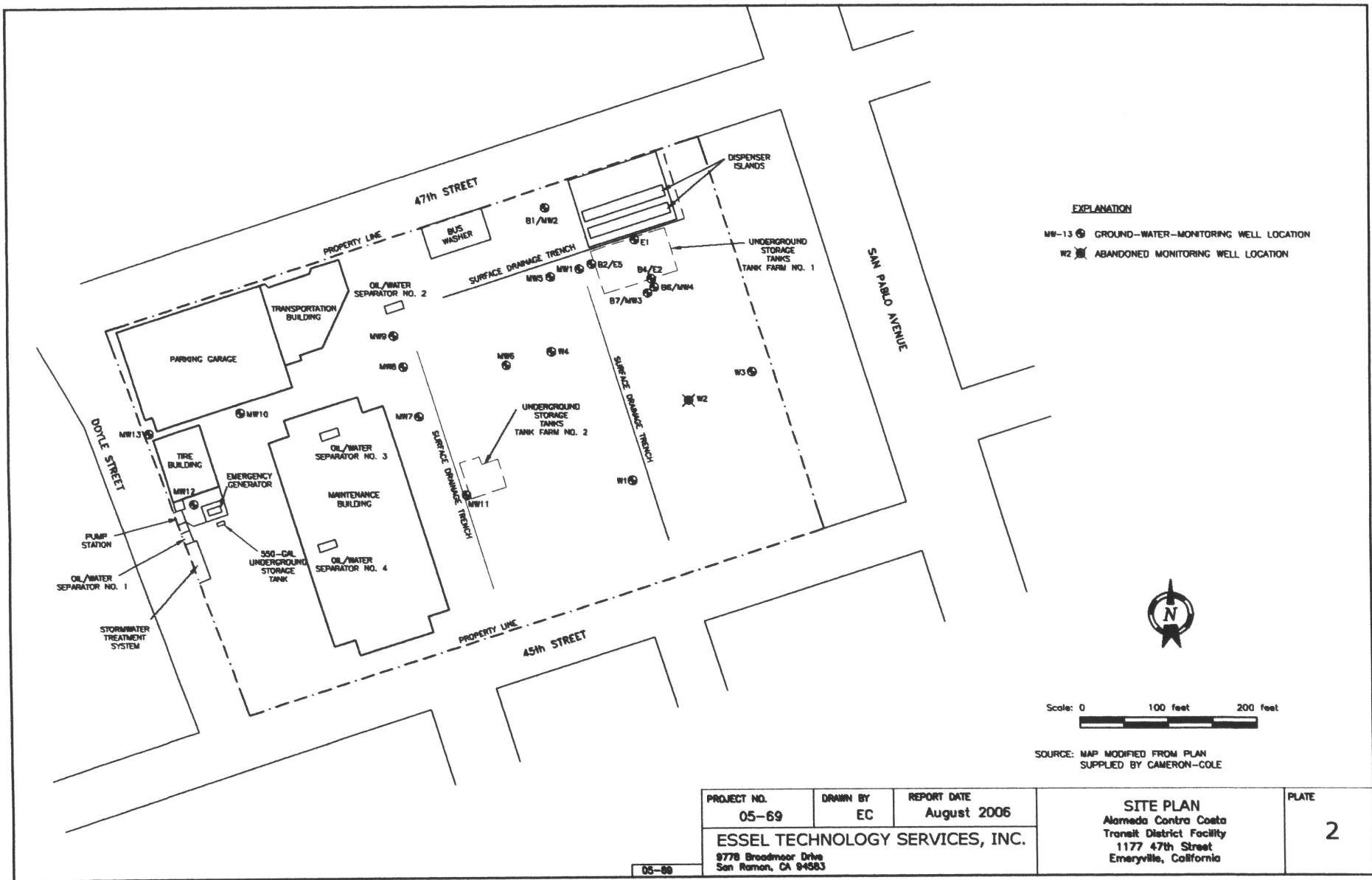


Scale: 0 2000 feet 4000 feet



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

PROJECT NO. 05-69	DRAWN BY EC	REPORT DATE August 2006	SITE VICINITY MAP Alameda Contra Costa Transit District Facility 1177 47th Street Emeryville, California	PLATE 1
ESSEL TECHNOLOGY SERVICES, INC. 9778 Broadmoor Drive San Ramon, CA 94583				



EXPLANATION
 MW-13 GROUND-WATER-MONITORING WELL LOCATION
 MW2 ABANDONED MONITORING WELL LOCATION



Scale: 0 100 feet 200 feet

SOURCE: MAP MODIFIED FROM PLAN SUPPLIED BY CAMERON-COLE

PROJECT NO. 05-69	DRAWN BY EC	REPORT DATE August 2006
ESSEL TECHNOLOGY SERVICES, INC. 9778 Broadmoor Drive San Ramon, CA 94583		

SITE PLAN
 Alameda Contra Costa
 Tronit District Facility
 1177 47th Street
 Emeryville, California

PLATE
 2

05-69

APPENDIX A

WELL DEVELOPMENT AND SAMPLING FORMS

Well Development and Sampling Form

Job Name AC TRANSIT. DIV. 2 / EMBELVILLE Well Number MW-11
 Job Number 0569/4 Date August 27, 06
 Sample By SHER BUNA

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 _____
Total depth (TD) of casing in feet <u>17.50</u> +	<input checked="" type="checkbox"/> Bail Bailer Type: <u>DISPOSABLE</u>
Depth to water (DTW) in feet <u>3.00</u>	<input type="checkbox"/> Pump
Purge Volume Calculation	Pump Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Centrifuge
$(17.5 - 3) \times 3 \times 0.17 = 7.4$ gallons	<input type="checkbox"/> Bladder <input type="checkbox"/> Other
$TD - DTW \times V \times F = \text{purge volume}$	
Explanation	
For 2" diameter well: $V = 3, F = 0.17$ 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 checked="" type="checkbox"/> p.m. <input type="checkbox"/>	pH	Conductivity Microhos/centimeter	Temperature <input checked="" type="checkbox"/> °C <input checked="" type="checkbox"/> °F	Turbidity		Gallons pumped	
				DO	ORP	Fe	
Start							
9:00	7.35	440	70.2	0.12	198	0	2
9:15	6.95	440	70.2	0.08	200		6
9:30	6.96	443	70.2	0.06	200.2		6
10:00	6.98	441	70.2	0.10	199		8

Total Gallons Pumped 8
 Observations during purging (well condition, turbidity, color, odor): TURBID

Discharge water disposal: Sanitary Sewer Storm Drain Drum Other STEM BAY @ SITE
 Well Sampling Date: 8/27/06 Time: _____

Well Development and Sampling Form

Job Name AL TRANSIT DIV 2 Well Number MW-12
EMERVILLE

Job Number 0569/4 Date Aug. 27, 06

Sample By SHER BUNA

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>29.50</u> +	<input checked="" type="checkbox"/> Bail Bailer Type: <u>DISPOSABLE</u>
Depth to water (DTW) in feet <u>10.50</u>	<input type="checkbox"/> Pump
Purge Volume Calculation	Pump Type: <input checked="" type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifuge
$(29.5 - 10.5) \times 3 \times 17 = 965$ 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. [] p.m. []	pH	Conductivity Microhos/centimeter	Temperature		Turbidity		Gallons pumped FE
			[] °C [] °F	DO	ORP		
Start							
10-30	7.2	710	71°	0.20	120	0.72	2
10-45	7.2	710	71	0.19	130		4
11-00	7.6	710	71	0.17	121		8
11-30	6.9	710	71	0.09	122		10

Total Gallons Pumped 10

Observations during purging (well condition, turbidity, color, odor): None

Discharge water disposal: [] Sanitary Sewer [] Storm Drain [] Drum [] Other ST EMU PM

Well Sampling Date: 8/27/06 Time: _____

APPENDIX B

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

06045 +1

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 DAY
 GeoTracker EDF PDF Excel Write On (DW)

Report To: **SHEK GUHA** Bill To: **ESSEL TECHNOLOGY**
 Company: **ESSEL TECHNOLOGY SERVICES INC.**
 9778 Broadmoor Drive, San Ramon, CA 94583
 E-Mail: **ESSELTEK SERVICES**
 Tele: (415) 794-1960 Fax: (925) 833-7977 @AOL.COM
 Project #: _____ Project Name: **AC TRANSIT DIV**
 Project Location: **1774 47th Street, Emeryville, CA**
 Sampler Signature: _____

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
MW11-01	EMBA	8/27	8:30	1	Vol X													Filter Samples for Metals analysis: Yes / No
MW11-02				1														
MW11-03				1														
MW11-04					Amb													
MW11-05					Pd													
MW12-01				1														
MW12-02				1														
MW12-03				1														
MW12-04				1	KAR													
MW12-05				1	Pd													
Blank: 01																		

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

Relinquished By: _____ Date: _____ Time: _____ 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 ✓
 VOAS O&G METALS OTHER
 PRESERVATION pH<2



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: AC Transit Div.	Date Sampled: 08/27/06
		Date Received: 08/28/06
	Client Contact: Shek Guha	Date Extracted: 08/29/06
	Client P.O.:	Date Analyzed 08/29/06

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0608574

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-11	W	ND	ND	ND	ND	ND	ND	1	96
002A	MW-12	W	530,m	6.6	ND	ND	ND	ND	1	97

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and 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; p) see attached narrative.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Essel Technology Service 9778 Broadmoore Drive San Ramon, CA 94523	Client Project ID: AC Transit Div.	Date Sampled: 08/27/06
		Date Received: 08/28/06
	Client Contact: Shek Guha	Date Extracted: 08/28/06
	Client P.O.:	Date Analyzed 08/31/06

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

Extraction method SW3510C

Analytical methods SW8015C

Work Order: 0608574

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0608574-001B	MW-11	W	57,b	1	91
0608574-002B	MW-12	W	120,d	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.