



erSchy Environmental, Inc.

July 9, 2004
Project A51-01

Mr. Barney Chan
Alameda County
Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577

Alameda County
JUL 18 2004
Environmental Health

Re: Results of May, 2004 Quarterly Groundwater Monitoring, Alaska Gasoline Company, Oakland, California, Case #RO0000127

Dear Mr. Chan:

HerSchy Environmental is pleased to present the results of the most recent quarterly groundwater monitoring event for the above-referenced site. The site is located at 6211 San Pablo Avenue, which is on the northwest corner of San Pablo Avenue and 62nd Street in Oakland, Alameda County, California (Figure 1). Previous work includes the drilling, sampling, and laboratory analysis of soil and groundwater. Details of this investigation are contained in the April 22, 1999 report titled, "*Results of Underground Storage Tank (UST) Site Assessment, Alaska Gasoline Company, Oakland, California*", prepared by HerSchy Environmental.

METHODS OF INVESTIGATION

Groundwater Sampling Procedures:

The depth to groundwater in each well was measured to the nearest 0.01 feet using an electric sounder prior to initiating groundwater sampling activities. The groundwater elevation was determined for each well by subtracting the depth to groundwater from the surveyed well elevation. The depth to groundwater, total depth of the well, and the well diameter were used to calculate the volume of groundwater within the well casing. At least three casing volumes were purged from each well prior to collecting a groundwater sample using a Waterra electric pump and dedicated hoses. Physical characteristics (temperature, electrical conductivity, and pH), were measured at the initiation of purging and then again just prior to collection of the groundwater sample. These characteristics were recorded on field sampling data sheets which are presented in Appendix A. One sample from each well was collected and contained in three 40-milliliter vials. Each of the sample containers were filled

completely to form a positive meniscus, capped, and checked to ensure no air bubbles were present.

Samples were sealed in a ziplock bag and placed in a cooler chest with frozen gel packs ("blue ice") immediately after sampling. Samples were maintained at or below four degrees Celsius until delivered to the laboratory. Groundwater samples were handled under chain-of-custody documentation until delivered to a California certified laboratory.

Laboratory Analysis:

Groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). Samples were analyzed using EPA method 8020 for BTEX and MTBE. Groundwater samples were also analyzed for the fuel oxegynates and additives MTBE, diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) using EPA method 8260. Groundwater samples were also analyzed for ethanol and methanol as requested by your office.

RESULTS OF INVESTIGATION

Groundwater Conditions:

Because wells MW-4 and EX-1 contained floating product, no samples were collected from these wells, and groundwater data from these wells was not used in determining the groundwater flow direction or gradient. Also, MW-6 was buried under a large pile of pea gravel and was therefore not available this monitoring event. Efforts have subsequently been made to move the pea gravel and this well will be sampled during the next quarterly monitoring event. Groundwater was present beneath the site at an average depth of 7.48 feet below the surveyed well elevations during the May 24-25, 2004 monitoring event. During this event, the elevation of groundwater averaged 27.03 feet above mean sea level. The groundwater elevation decreased approximately 2.23 feet since the February, 2004 monitoring event based on average depth to groundwater. Groundwater flow direction was South 71 degrees West at a gradient of .0081 during the May, 2004 monitoring event. Groundwater conditions are summarized in Table 1 and presented graphically in Figure 2.

Table 1
Groundwater Conditions, Alaska Gasoline, Oakland

<u>Well Number</u>	<u>Elevation</u>	<u>Depth to GW</u>	<u>GW Elevation</u>
November 17, 2001:			
MW-1	34.70	8.09	26.61
MW-2	34.94	7.75	27.19
MW-3	33.74	7.18	26.56

**Table 1
(Continued)**

Well Number	Elevation	Depth to GW	GW Elevation
MW-4	32.38	5.75	26.63
MW-5	33.75	6.22	27.53
MW-6	34.68	7.19	27.49

Flow Direction = S. 50 W.; Gradient = .0091

March 31, 2002:

MW-1	34.70	7.18	27.52
MW-2	34.94	6.68	28.26
MW-3	33.74	6.27	27.47
MW-4	32.38	5.40	26.98
MW-5	33.75	6.35	27.40
MW-6	34.68	6.58	28.10

Flow Direction = S. 26 W.; Gradient = .0108

September 9, 2003:

MW-1	34.70	8.54	26.16
MW-2	34.94	8.26	26.68
MW-3	33.74	7.52	26.22
MW-4	32.38	0.51' free product	-----
MW-5	33.75	7.08	26.67
MW-6	34.68	8.21	26.47

Flow Direction = S. 50 W; Gradient = .0031

December 9, 2003:

MW-1	34.70	7.50	27.20
MW-2	34.94	7.20	27.74
MW-3	33.74	6.45	27.29
MW-4	32.38	0.25' free product	-----
MW-5	33.75	6.13	27.62
MW-6	34.68	7.11	27.57

Flow Direction = S. 56 W; Gradient = .0075

February 19-20, 2004:

MW-1R	Not Surveyed	5.45	-----
MW-2	34.94	5.81	29.13
MW-3	33.74	5.56	28.18
MW-4	32.38	0.25' free product	-----
MW-5	33.75	5.11	28.64
MW-6	34.68	5.61	29.07
EX-1	Not Surveyed	3.96	-----

Flow Direction = S. 42 W; Gradient = .0154

**Table 1
(Continued)**

Well Number	Elevation	Depth to GW	GW Elevation
May 24-25, 2004:			
MW-1R	Not Surveyed	8.58	-----
MW-2	34.94	7.79	27.15
MW-3	33.74	6.99	26.75
MW-4	32.38	0.33' free product	-----
MW-5	33.75	6.57	27.18
MW-6	34.68	Not Available	Not Available
EX-1	Not Surveyed	0.76' free product	-----
Flow Direction = S. 71 W; Gradient = .0081			

Wells MW-1R and EX-1 have not been surveyed because of ongoing site construction. Once the current construction project is complete, all of the existing site wells will be surveyed by a licensed surveyor. Based on the data gathered from MW-2, MW-3, and MW-5, the groundwater flow direction is toward San Francisco Bay, located approximately 0.75 miles southwest of the site. Regional groundwater flow appears to parallel the surface grade in the area.

Groundwater Quality:

Groundwater samples were submitted to the laboratory and analyzed for the above-mentioned fuel constituents. Certified analytical reports and chain-of-custody documentation are presented in Appendix B and summarized in Table 2 below:

**Table 2
Laboratory Analytical Results for Groundwater, Alaska Gasoline, Oakland**

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
November 17, 2001:						
MW-1	10,000	230	210	60	250	22,000
MW-2	18,000	3,700	180	610	640	16,000
MW-3	110,000	1,600	ND	ND	ND	300,000
MW-4	64,000	960	1,400	360	1,600	140,000
MW-5	210	15	12	11	23	4.8
MW-6	3,500	160	260	95	420	1,500
March 31, 2002:						
MW-1	12,000	61	ND	ND	29	35,000
MW-2	32,000	6,500	270	1,700	2,700	19,000
MW-3	130,000	2,400	670	300	390	300,000
MW-4	78,000	4,400	4,700	690	2,700	150,000
MW-5	120	11	7.4	6.1	16	4.2
MW-6	3,200	410	170	82	280	3,000

**Table 2
(Continued)**

Well No.	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
September 9, 2003:						
MW-1	19,000	ND	ND	ND	ND	50,000
MW-2	24,000	4,600	ND	1200	440	19,000
MW-3	190,000	1,600	ND	ND	ND	420,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	1.5	ND	ND	ND	1.7
MW-6	800	49	ND	7.4	ND	1,700
December 9, 2003:						
MW-1	22,000	150	ND	ND	ND	66,000
MW-2	31,000	6,200	170	1,600	2,700	19,000
MW-3	170,000	2,000	ND	ND	ND	4,500,000 <i>7c</i>
MW-4	NA	NA	NA	NA	NA	NA
MW-5	130	32	ND	2.6	0.57	5.0
MW-6	970	150	9.9	31	83	1,200
February 19-20, 2004:						
MW-1R	1,800	95	130	44	200	220
MW-2	21,000	4,600	120	970	2,000	15,000
MW-3	86,000	1,800	630	ND	ND	160,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	1.5
MW-6	1,900	280	58	17	160	2,700
EX-1	120,000	9,500	4,300	840	3,900	150,000
May 24-25, 2004:						
MW-1R	210	12	10	5.4	23	79
MW-2	1,200	120	3.0	63	67	1,900
MW-3	120,000	2,200	ND	180	220	400,000
MW-4	NA	NA	NA	NA	NA	NA
MW-5	ND	ND	ND	ND	ND	0.55
MW-6	NA	NA	NA	NA	NA	NA
EX-1	NA	NA	NA	NA	NA	NA

All results presented in parts per billion (ppb)

MTBE results by EPA method 8260

NA= no analysis

ND= below detectable limits

As requested by your office, groundwater samples were also analyzed for the fuel oxegynates and additives MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA), 1,2-dichloroethane (1,2-DCA), ethylene dibromide (EDB), methanol, and ethanol. Laboratory analytical results are presented in Appendix B and summarized in Table 3 below:

Table 3

Laboratory Analytical Results for Groundwater, Alaska Gasoline, Oakland

Sample	TAME	TBA	Methanol	Ethanol
MW-1R	2.1	37	ND	ND
MW-2	ND	ND	ND	ND
MW-3	15,000	ND	ND	ND
MW-5	ND	ND	ND	ND

All results in parts per billion (ppb)

ND = below detectable concentrations

There was no EDB, 1,2-DCA, DIPE, or ETBE detected in the groundwater samples. Ethanol and methanol were not detected in any of the groundwater samples and will not be analyzed for in future monitoring events unless specifically requested by your office.

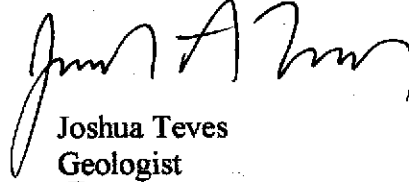
All of the on-site monitoring wells sampled during the May, 2004 quarter are impacted with gasoline constituents. No samples were collected from MW-4 and EX-1 due to the presence of floating product. Other than MW-4 and EX-1, concentrations are highest in the down gradient well MW-3. Concentrations are significantly lower in MW-5 than any of the other wells, reflecting its distance from, and up gradient location relative to, the USTs.

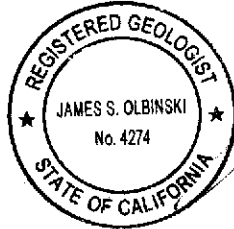
CONCLUSIONS AND RECOMMENDATIONS

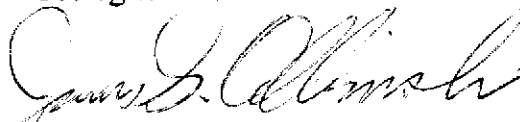
Installation of the soil vapor extraction system (SVES) is now complete. A vapor extractions test (VET) was performed on June 28-30, 2004. A report detailing the results of the VET will be prepared upon receipt of laboratory analytical results. The next quarterly monitoring event is currently scheduled for late August, 2004.

If you have any questions or need additional information, please contact me at the letterhead address or at (559) 641-7320.

With best regards,
HerSchy Environmental, Inc.


Joshua Teves
Geologist




James S. Olbinski
Registered Geologist #4274

pc: Mr. Pritpaul Sappal
Mr. Syed Nawab, Alaska Gasoline Company
Mr. Hernan Gomez, Oakland Fire Services Agency
Mrs. Susan M. Torrence, Deputy District Attorney

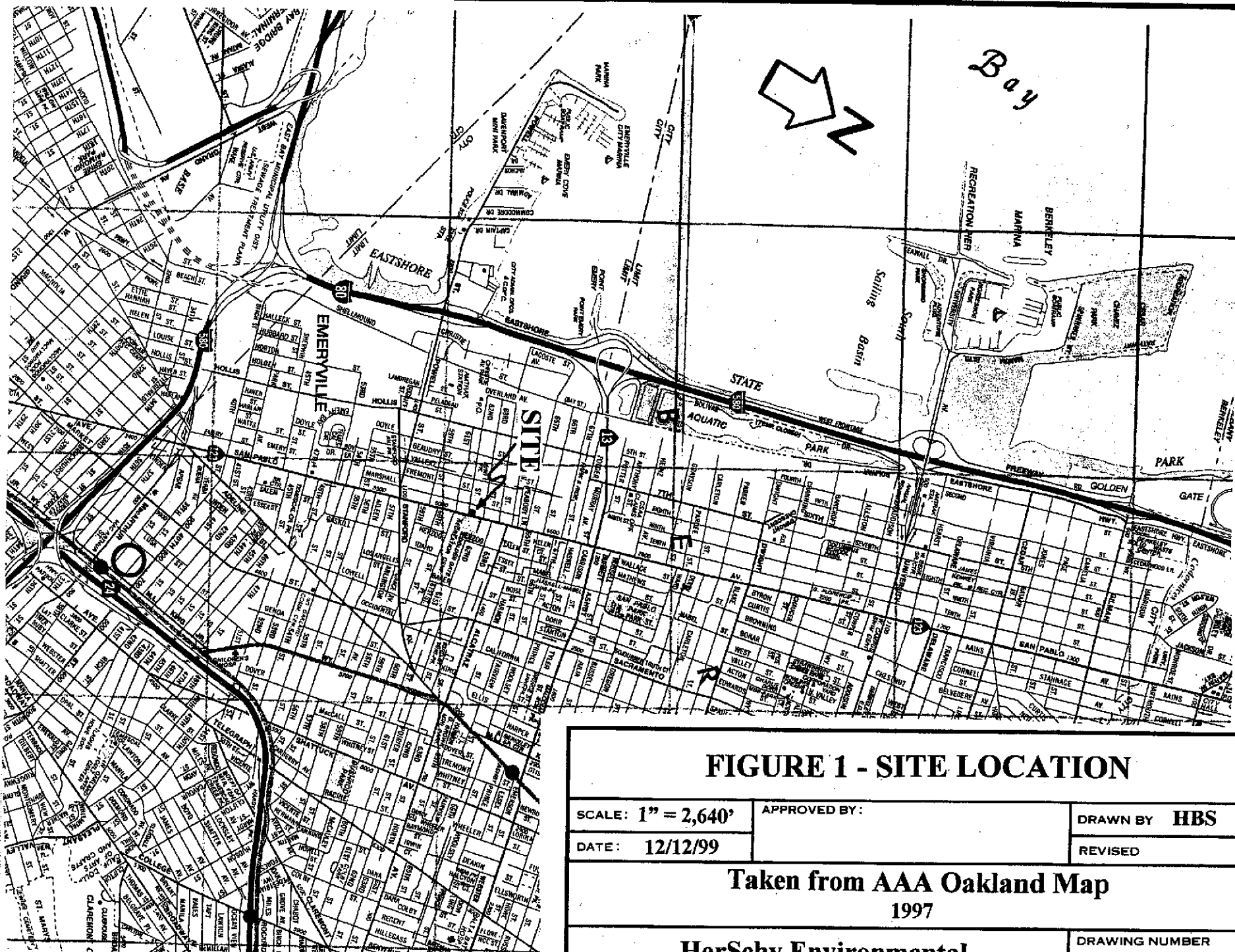


FIGURE 1 - SITE LOCATION

SCALE: 1" = 2,640'
 DATE: 12/12/99

APPROVED BY:

DRAWN BY HBS

REVISED

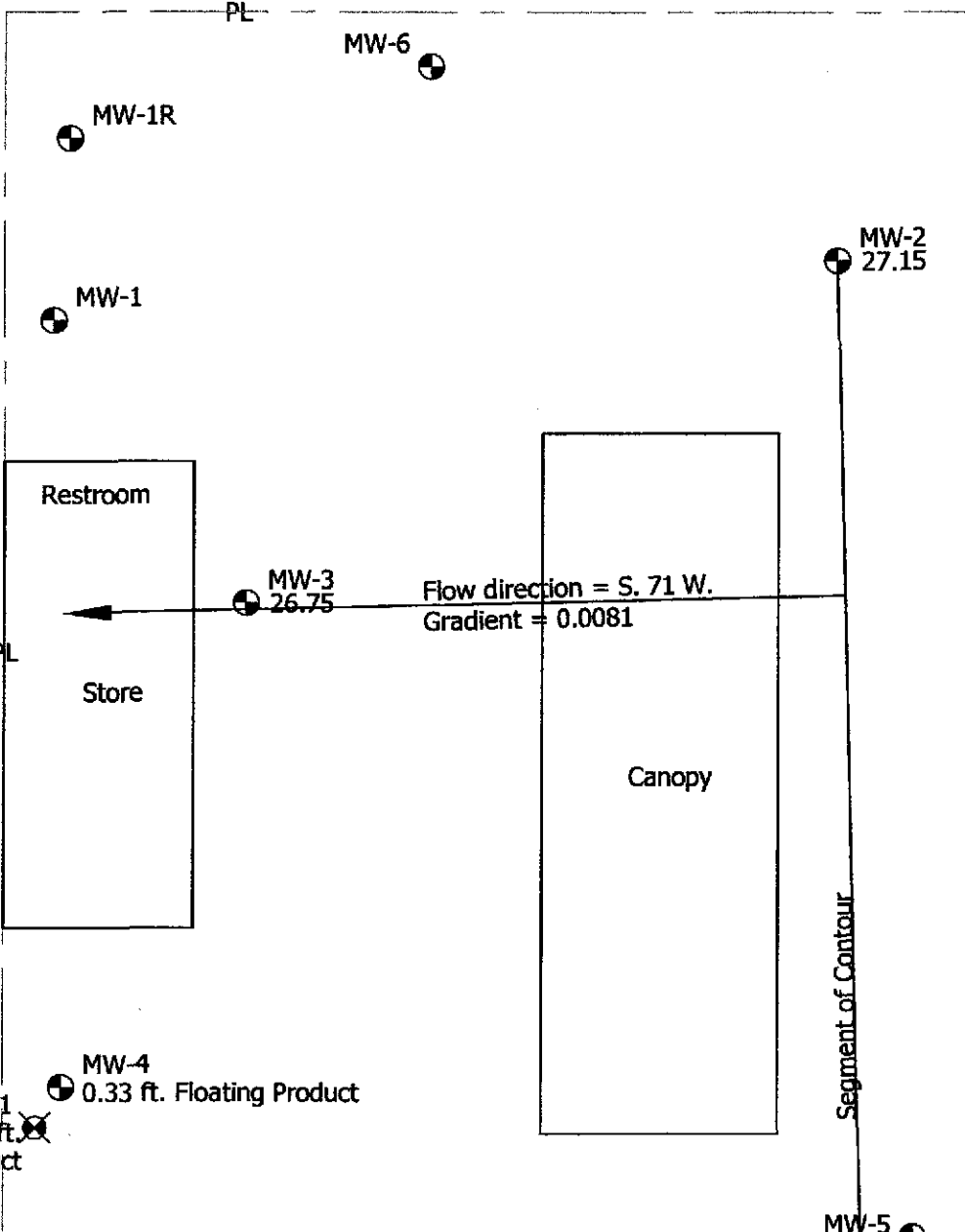
**Taken from AAA Oakland Map
 1997**

HerSchy Environmental

DRAWING NUMBER

Residential

Baker Tanks



Residential

San Pablo

62nd Street



HerSchy Environmental, Inc.
Environmental Consulting and Remediation

P. O. Box 229
Bass Lake, California 93604-0229
Tel. (559) 641-7320, Fax (559) 641-7340

MAY, 2004 GROUNDWATER CONDITIONS

ALASKA GASOLINE COMPANY

6211 San Pablo Avenue, Oakland, California

DATE: July 2004

FILE NO.: A51-01.02

DRAWN BY: JSO

FIGURE

2

APPENDIX A

GROUNDWATER SAMPLING

FIELD DATA SHEETS

HerSchy WATER SAMPLE FIELD DATA SHEET

Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: EX-1 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): NA Volume in Casing (gal.): NA

Depth of Well (feet): 30.20 Calculate Purge Volume (gal.): ↓

Depth to Water (feet): 5.56 Actual Purge Volume (gal.): ↓

Depth to Product (ft.): 4.80

Date Purged: NA Date Sampled: NA

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
<u>NA</u>					

Other Observations: _____ Odor: Strong Petroleum

Purging Equipment: NA

Sampling Equipment: NA

Remarks: 76' of floating product 5/24/04

Sampler's Signature: Jeff Gurule

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HerSchy WATER SAMPLE FIELD DATA SHEET

Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-1R Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): NA Volume in Casing (gal.): 2.34

Depth of Well (feet): 22.87 Calculate Purge Volume (gal.): 7.03

Depth to Water (feet): 8.58 Actual Purge Volume (gal.): 8

Date Purged: 5/24/04 Date Sampled: 5/24/04

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
<u>1609</u>	<u>—</u>	<u>6.59</u>	<u>603</u>	<u>67.9</u>	<u>Murky</u>
<u>1617</u>	<u>7+</u>	<u>6.60</u>	<u>588</u>	<u>67.2</u>	<u>11</u>

Other Observations: _____ Odor: Strong petroleum

Purging Equipment: Watera

Sampling Equipment: 11

Remarks: _____

Sampler's Signature: Jeff Gurule

HerSchy WATER SAMPLE FIELD DATA SHEET
Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-2 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): 34.94 Volume in Casing (gal.): 2.06

Depth of Well (feet): 20.35 Calculate Purge Volume (gal.): 6.18

Depth to Water (feet): 7.79 Actual Purge Volume (gal.): 7

Date Purged: 5/25/04 Date Sampled: 5/25/04

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
<u>945</u>	<u>—</u>	<u>6.61</u>	<u>684</u>	<u>66.1</u>	<u>Clear</u>
<u>953</u>	<u>6+</u>	<u>6.68</u>	<u>685</u>	<u>66.8</u>	<u>Cloudy</u>

Other Observations: _____ Odor: Petroleum

Purging Equipment: Watera

Sampling Equipment: "

Remarks: _____

Sampler's Signature: Jeff Gurule

HerSchy WATER SAMPLE FIELD DATA SHEET

Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-3 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): 33.74 Volume in Casing (gal.): 2.25

Depth of Well (feet): 20.70 Calculate Purge Volume (gal.): 6.75

Depth to Water (feet): 6.99 Actual Purge Volume (gal.): 7+

Date Purged: 5/24/04 Date Sampled: 5/24/04

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
<u>1541</u>	<u>—</u>	<u>6.30</u>	<u>1071</u>	<u>70.9</u>	<u>Cloudy</u>
<u>1550</u>	<u>7</u>	<u>6.41</u>	<u>1033</u>	<u>69.0</u>	<u>11</u>

Other Observations: _____ Odor: Strong Petroleum

Purging Equipment: Watera

Sampling Equipment: 11

Remarks: _____

Sampler's Signature: Jeff Gurule

HerSchy **WATER SAMPLE FIELD DATA SHEET**
Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-4 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): 32.38 Volume in Casing (gal.): NA

Depth of Well (feet): 19.52 Calculate Purge Volume (gal.): ↓

Depth to Water (feet): 5.70 Actual Purge Volume (gal.): ↓

Depth to Product (ft.): 5.37

Date Purged: NA Date Sampled: NA

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY

Other Observations: _____ Odor: Strong Petroleum

Purging Equipment: NA

Sampling Equipment: NA

Remarks: .33' of floating product 5/24/04

Sampler's Signature: Jeff Gurule

HerSchy **WATER SAMPLE FIELD DATA SHEET**
Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-5 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): 33.75 Volume in Casing (gal.): 2.90

Depth of Well (feet): 24.25 Calculate Purge Volume (gal.): 8.70

Depth to Water (feet): 6.57 Actual Purge Volume (gal.): 9+

Date Purged: 5/25/04 Date Sampled: 5/25/04

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY
<u>1010</u>	<u>—</u>	<u>6.71</u>	<u>771</u>	<u>66.8</u>	<u>Muddy</u>
<u>1020</u>	<u>9</u>	<u>6.66</u>	<u>732</u>	<u>67.2</u>	<u>Murky</u>

Other Observations: _____ Odor: None

Purging Equipment: Watera

Sampling Equipment: 11

Remarks: _____

Sampler's Signature: Jeff Gurule

HerSchy **WATER SAMPLE FIELD DATA SHEET**
Environmental

Client Name: Alaska Gas Location: Oakland

Purged By: Jeff Gurule Sampled by: Jeff Gurule

Sample ID: MW-6 Type: Groundwater Surface Water Other

Casing Diameter (inches): 2 3 4 5 6 Other

Casing Elevation (feet/MSL): 34.68 Volume in Casing (gal.): NA

Depth of Well (feet): NA Calculate Purge Volume (gal.): ↓

Depth to Water (feet): ↓ Actual Purge Volume (gal.): ↓

Date Purged: NA Date Sampled: NA

TIME	VOLUME	pH	E. C.	TEMP.	TURBIDITY

Other Observations: _____ Odor: NA

Purging Equipment: NA

Sampling Equipment: NA

Remarks: Well buried under large pile of pea gravel. Unable to ~~sample~~ locate or sample.

Sampler's Signature: Jeff Gurule

APPENDIX B

CERTIFIED ANALYTICAL RESULTS--GROUNDWATER

WITH CHAIN OF CUSTODY

CASTLE ANALYTICAL LABORATORY

Environmental Testing Services
Certificate #2480

2333 Shuttle Drive, Alwater, CA 95301

Phone: (209) 384-2930
Fax: (209) 384-1507


HerSchy Environmental P.O. Box 229 Bass Lake, CA 93604 Attn: Joshua Teves	Client Project ID: Alaska Gasoline Co. - Oakland Reference Number: 6997 Sample Description: Water Sample Prep/Analysis Method: EPA 5030/8015, 8020 Lab Numbers: 6997-1W, 2W, 3W, 4W	Sampled: See Below Received: 05-27-04 Extracted: 05-29-04 Analyzed: 05-29-04 Reported: 06-11-04
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TOTAL PETROLEUM HYDROCARBONS - GASOLINE WITH BTEX DISTINCTION

ANALYTE	REPORTING LIMIT µg/L	SAMPLE ID MW-1R (µg/L)	SAMPLE ID MW-2 (µg/L)	SAMPLE ID MW-3 (µg/L)	SAMPLE ID MW-5 (µg/L)
MTBE	0.50	47	1400	410000	0.55
BENZENE	0.50	12	120	2200	ND
TOLUENE	0.50	10	3.0	ND	ND
ETHYLBENZENE	0.50	5.4	63	180	ND
TOTAL XYLENES	0.50	23	67	220	ND
GASOLINE RANGE HYDROCARBONS	50	210	1200	120000	ND
Report Limit Multiplication Factor:		1	5	250	1
Report Limit Multiplication Factor for MTBE only:			500	10000	
Date Sampled:		05-24-04	05-25-04	05-24-04	05-25-04

Surrogate % Recovery:	FID: 119% / PID: 103%	FID: 96.6% / PID: 104%	FID: 84.2% / PID: 81.3%	FID: 43.8% / PID: 82.6%
Instrument ID:	VAR-GC1	VAR-GC1	VAR-GC1	VAR-GC1

Analytes reported as ND were not detected or below the Practical Quantitation Limit
Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor

APPROVED BY: 
Clari J. Cone
Laboratory Manager

APPROVED BY: 
James C. Phillips
Laboratory Director

 McC Campbell Analytical, Inc.	110 2nd Avenue South, #D7, Pismo, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mcccampbell.com E-mail: main@mcccampbell.com
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Castle Analytical Laboratory 2333 Shuttle Drive Bldg 908/909 Atwater, CA 95301	Client Project ID: #6997/Alaska Gasoline Co., Oakland	Date Sampled: 05/24/04-05/25/04
	Client Contact: James Phillips	Date Received: 06/04/04
	Client P.O.:	Date Extracted: 06/07/04-06/08/04
		Date Analyzed: 06/07/04-06/08/04

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW90309 Analytical Method: SW8260B Work Order: 0406057

Lab ID	Client ID		Reporting Limit for DF = 1		
	0406057-001A	0406057-002A			MW-1R
Matrix	W	W			
DF	2	100	S	W	
Compound	Concentration			ug/kg	ug/L
tert-Amyl methyl ether (TAME)	21	ND<50	NA	0.5	
t-Butyl alcohol (TBA)	37	ND<500	NA	5.0	
1,2-Dibromoethane (EDB)	ND<1.0	ND<50	NA	0.5	
1,2-Dichloroethane (1,2-DCA)	ND<1.0	ND<50	NA	0.5	
Diisopropyl ether (DIPE)	ND<1.0	ND<50	NA	0.5	
Ethanol	ND<100	ND<5000	NA	50	
Ethyl tert-butyl ether (ETBE)	ND<1.0	ND<50	NA	0.5	
Methanol	ND<1000	ND<50,000	NA	500	
Methyl-t-butyl ether (MTBE)	79	1900	NA	0.5	

Surrogate Recoveries (%)

%SS:	104	102		
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Comments

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


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

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

k) lighter than water immiscible shown/product is present; l) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Angela Rydellius
Angela Rydellius, Lab Manager

 McC Campbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco CA 94855-8560 Telephone : 925-798-1620 Fax : 925-798-1622 Website : www.mcccampbell.com E-mail: rreda@mcccampbell.com			
Castle Analytical Laboratory 2333 Shuttle Drive Bldg 908/909 Atwater, CA 95301	Client Project ID: #6997; Alaska Gasoline Co.-Oakland		Date Sampled: 05/24/04-05/25/04		
	Client Contact: James Phillips		Date Received: 06/03/04		
	Client P.O.:		Date Extracted: 06/03/04		
			Date Analyzed: 06/03/04		
Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*					
Extraction Method: SW5030B		Analytical Method: SW8260B		Work Order: 0406037	
Lab ID	0406037-001A	0406037-002A			Reporting Limit for DF = 1
Client ID	MW-3	MW-5			
Matrix	W	W			
DF	20000	1			
Compound	Concentration			ug/kg	pp/L
tert-Amyl methyl ether (TAME)	15,000	ND		NA	0.5
t-Butyl alcohol (TBA)	ND<100,000	ND		NA	5.0
1,2-Dibromoethane (EDB)	ND<10,000	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<10,000	ND		NA	0.5
Diisopropyl ether (DIPE)	ND<10,000	ND		NA	0.5
Ethanol	ND<1,000,000	ND		NA	50
Ethyl tert-butyl ether (ETBE)	ND<10,000	ND		NA	0.5
Methyl-t-butyl ether (MTBE)	400,000	0.55		NA	0.5
Surrogate Recoveries (%)					
%SB:	105	115			
Comments					
* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L. ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis. # surrogate diluted out of range or surrogate coelutes with another peak. (h) lighter than water immiscible sheen/product is present; (l) liquid sample that contains greater than ~1 vol. % sediment; (j) sample diluted due to high organic content.					

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

CASTLE ANALYTICAL LABORATORY

CHAIN OF CUSTODY

Location: 2333 Shuttle Drive, Bldg 908/909, Atwater, CA 95301

Certificate No. 2480

Mailing Address: 2333 Shuttle Drive, Atwater, CA 95301

PAGE 1 OF 1

Phone: (209) 384-2930 - Fax: (209) 384-1507

Customer: <u>Alaska Gasoline Co.</u>					SAMPLE TYPE (g) grab (c) composite (d) discrete	SAMPLE MATRIX (s) solid (l) liquid (o) other	REQUESTED ANALYSES							Electronic Deliverables (EDF)	Method of Shipment:							
Address:							BTEX/TPH-GAS	MTBE	TPH-DIESEL	TRPH 418.1M	Oxy's / EDB / DCA by 8260	8260	Ethanol		NUMBER OF CONTAINERS	Notes:						
City/State/ZIP: <u>Oakland</u>																						
Phone / FAX:																						
Proj # / P.O. #:																						
Report Attention: <u>Josh Torres</u>												OBSERVATIONS/REMARKS										
Sampler Signature: <u>Jeff Gurale</u>												Total number of containers submitted to the laboratory										
Printed: <u>Jeff Gurale</u>													Note: All special requests (e.g. quick turn times) must be cleared through authorized laboratory personnel.									
Lab ID#	SAMPLE ID	DATE	TIME	DESCRIPTION/LOCATION											RESULTS DUE :							
	MW-1R	5/24/04	1620		g	l	XX		X			3			<input type="checkbox"/> VERBAL <input checked="" type="checkbox"/> WRITTEN							
	MW-2	5/25/04	1000		g	l	↓	↓	↓			↓										
	MW-3	5/24/04	1555		g	l	↓	↓	↓			↓										
	MW-5	5/25/04	1025		g	l	↓	↓	↓			↓										
Signature					Printed Name		Date	Time	Company Name			Total number of containers submitted to the laboratory										
Relinquished by: <u>Jeff Gurale</u>					Jeff Gurale		5/22/04	1210	Her Schv			3										
Received by: <u>Veronica Soto</u>					Veronica Soto		5/24/04	1010	Castle Analytical			Note: All special requests (e.g. quick turn times) must be cleared through authorized laboratory personnel.										
Relinquished by:																						
Received by:																						
Relinquished by:																						
Received by:																						