



GROUNDWATER MONITORING REPORT

August 21, 1998

Peralta Maintenance Yard
501 5th Avenue
Oakland, California

Prepared For:
Mr. Robert Mibach
Peralta Community College District

ACC Project No. 6045-014.00

OAKLAND ■ SACRAMENTO
SEATTLE ■ LOS ANGELES

GROUNDWATER MONITORING REPORT

**Peralta Community College District Maintenance Yard
501 5th Avenue
Oakland, California**

ACC Project No. 6045-014.00

Prepared for:

Mr. Robert Mibach
Peralta Community College District
333 East 8th Street
Oakland, California

August 21, 1998

Prepared by:



Stephen Southern

Senior Environmental Assessor

Reviewed by:



David R. DeMent, RG

Senior Geologist



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GROUNDWATER MONITORING REPORT
Peralta Community College District Maintenance Yard
501 5th Avenue
Oakland, California

1.0 INTRODUCTION

This report presents the procedures and findings of groundwater investigation conducted by ACC Environmental Consultants, Inc., (ACC) on behalf of the Peralta Community College District (District), site owner at 501 5th Avenue, Oakland, California (Figure 1). The project objective was to evaluate the extent of groundwater impact from the previous underground storage of petroleum products using analysis of groundwater samples collected from two onsite monitoring wells.

2.0 BACKGROUND

Five underground storage tanks (USTs) were installed at the subject property prior to the 1960s. The tanks were used for storage of fuel and waste oil for the City of Oakland Corporation Yard. The tanks consisted of two 6,000-gallon gasoline tanks, one 2,000-gallon diesel tank, one 2,000-gallon ethyl (premium) gasoline tank, and one 550-gallon waste-oil tank. In 1980, the District acquired the property. The District abandoned the five USTs by filling them with water and installed three new fiberglass USTs. The new tanks consisted of two 6,000-gallon and one 4,000-gallon fiberglass tanks used to store gasoline fuel. The new tanks were installed approximately 150 feet from the original tanks.

2.1 UST Removal

In 1992, the five original USTs were removed by R.S. Eagan. During removal, eight soil samples and one grab groundwater sample were collected from the excavation. Laboratory analysis of the soil samples indicated concentrations up to 228 parts per million (ppm) total petroleum hydrocarbons as diesel (TPHd), 134 ppm total petroleum hydrocarbons as gasoline (TPHg), 2,407 parts per billion (ppb) benzene, 4,617 ppb toluene, 7,170 ppb ethylbenzene, 6,147 ppb total xylenes, and 5,477 ppm oil and grease. Laboratory analysis of the water sample collected from the excavation indicated concentrations of 170,000 ppb TPHd, 15,000 ppb TPHg, 286 ppb benzene, 698 ppb toluene, 300 ppb ethylbenzene, 808 ppb total xylenes, and 284,000 ppb oil and grease.

2.2 Previous Assessments

In September 1992, a preliminary study was performed by Environ of Emeryville, California, to evaluate soil and groundwater conditions at the site and at neighboring sites as part of a due diligence investigation associated with the sale of the property. This study indicated that hydrocarbon constituents reported in the soil and grab groundwater samples at the District Maintenance Yard were possibly a result of regional impact.

In November 1992, ACC performed a subsurface environmental site assessment of the soil around the former tank excavation. Concentrations of TPHg and motor oil were detected in the soil and

groundwater samples collected from the borings. Laboratory analysis of the soil samples indicated concentrations up to 370 ppm TPHg, 12 ppm TPHd, 5,342 ppm motor oil, 76.94 ppm benzene, 73.9 ppm toluene, 30.4 ppm ethylbenzene, and 95.41 ppm xylenes.

In November 1993, the three fiberglass gasoline USTs were removed from the property. Soil samples collected from the excavation indicated concentrations up to 1.3 ppm TPHg, 0.019 ppm benzene, and 0.018 ppm toluene. Initial groundwater samples collected from the excavation indicated 27,000 ppb TPHg, 1,200 ppb benzene, 5,100 ppb toluene, 690 ppb ethylbenzene, and 5,700 ppb xylenes. During removal of the tanks, approximately 3,500 gallons of water were removed from the excavation. Analysis of subsequent groundwater samples from the excavation indicated concentrations of 210 ppb TPHg and 14 ppb xylenes. Due to the detectable levels of constituents reported in the soil and groundwater samples, additional groundwater investigation was requested by the Alameda County Health Care Services Agency (ACHCSA).

In February 1994, four additional borings were drilled on site and converted into 2-inch-diameter monitoring wells (MW-1, MW-2, MW-3, and MW-4). The monitoring wells were used to evaluate the extent of groundwater impact from the two former excavations (Figure 2). Laboratory analysis of the groundwater samples collected in February 1994 from monitoring wells MW-1 and MW-4 (downgradient from the tank excavations) indicated no detectable levels of the constituents evaluated. The groundwater results from monitoring well MW-1 indicated a downgradient extent of groundwater impact. Laboratory analysis of groundwater samples collected from monitoring wells MW-2 and MW-3 (upgradient of the former tank excavations) indicated detectable levels of constituents. Groundwater samples collected from borings MW-2 and MW-3 indicated detectable levels of TPHd, TPHg, and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Motor oil was reported in the soil sample collected from boring MW-2. However, motor oil was not detected in the groundwater sample collected from monitoring well MW-2. A concentration of TPHd was detected only in the soil sample from boring MW-2.

An additional soil and groundwater investigation was conducted on May 9, 1994, to evaluate possible upgradient sources of petroleum hydrocarbons on site. The investigation included drilling five borings upgradient (east) of existing monitoring wells MW-2 and MW-3. Laboratory analysis of the soil samples collected during the additional investigation indicated detectable concentrations of TPHd up to 11 ppm and motor oil up to 100 ppm. No detectable concentrations of TPHg or BTEX were reported in the soil samples analyzed. Groundwater was encountered at a depth of approximately 5 to 6 feet below ground surface (bgs) during the additional investigation. Laboratory analysis of grab groundwater samples collected from the boreholes indicated no detectable concentrations of TPHd, motor oil, or BTEX. A concentration of TPHg of 61 ppb was reported in one grab groundwater sample collected from one boring. Motor oil was not detected in the groundwater samples collected from the borings and monitoring wells. Results of the analytical data from previous investigations indicate that upgradient sources of TPHg and motor oil exist. Fine-grained fill material and Bay Mud appear to restrict the mobility of the petroleum hydrocarbons from impacting groundwater; however, groundwater flow direction data suggest that constituent movement is to the west, away from monitoring wells MW-2 and MW-3.

2.3 Interim Remedial Action

Based on the findings of the subsurface investigations, elevated concentrations of petroleum hydrocarbons in the soil and groundwater indicated that a source of impact still existed on site. To remediate the source, overexcavation of the area around the former tank excavation was recommended as a cost-effective means. The proposed scope of work, approved by the lead regulatory agency, ACHCSA, included excavating impacted soil in the vicinity of the former tank excavation, actively purging the groundwater during excavation, and destroying well MW-2 during excavation activity.

Interim remedial action as overexcavation of impacted soil around the former tank excavation (removed in 1992) was performed in the summer of 1995. The work consisted of source removal including overexcavation and removal of approximately 2,250 cubic yards of impacted soil and removal of approximately 14,888 gallons of excavation water. During soil removal, four previously unknown USTs were discovered, three of which were removed. One UST still exists at the site. In order to protect the adjacent portable building's integrity, the tank was not removed at the time of remedial action. The UST will be removed after relocation of the adjacent building. The proposed remedial action and UST removal is tentatively scheduled for September 1998.

Based on previous investigations conducted on site, the extent of impact in the soil and groundwater was in the immediate vicinity of former monitoring well MW-2 and the existing UST, adjacent to the portable buildings. Due to the findings of the interim remedial action and the existence of previously unknown USTs, groundwater monitoring of the existing three wells (MW-1, MW-3, and MW-4) was reinstated after the interim remedial action.

In preparation for UST removal and excavation activity, well MW-3 was destroyed on March 18, 1998.

3.0 FIELD PROCEDURES

3.1 Groundwater Monitoring

Before groundwater sampling, the depth to the surface of the water table was measured from the top of the polyvinyl chloride casing in each well using a Solinst water level meter. The water level measurements were recorded to the nearest 0.01 foot with respect to mean sea level (MSL). Groundwater monitoring data obtained at the site is included in Appendix 1. Information regarding well elevations and groundwater level measurements is summarized in Table 1.

TABLE 1 - GROUNDWATER DEPTH INFORMATION

Well No.	Date Monitored	Well Elevation* (above MSL)	Depth to Groundwater	Groundwater Elevation
MW-1	02/14/94	6.78	3.69	3.09
	05/16/94		6.80	-0.02
	08/25/94		7.05	-0.27
	11/16/94		3.50	3.28
	02/14/95		3.91	2.87
	05/18/95		6.46	0.32
	03/27/96		4.32	2.46
	10/08/96		6.96	-0.18
	01/13/97		3.36	3.42
	07/17/97		6.21	0.57
	01/19/98		3.41	3.37
	07/21/98		5.58	1.20
MW-2	02/14/94	8.70	4.70	4.00
	05/16/94		4.74	3.96
	08/25/94		5.49	3.21
	11/16/94		5.03	3.67
	02/14/95		4.55	4.15
	05/18/95		4.77	3.93
	Destroyed		---	---
MW-3	02/14/94	8.83	4.57	4.26
	05/16/94		4.78	4.05
	08/25/94		5.93	2.90
	11/16/94		4.04	4.79
	02/14/95		4.55	2.72
	05/18/95		4.49	4.34
	03/27/96		4.51	4.32
	10/08/96		6.60	2.23
	01/13/97		4.12	4.71
	07/17/97		6.60	2.23
	01/19/98		4.16	4.67
	Destroyed		---	---

Well No.	Date Monitored	Well Elevation* (above MSL)	Depth to Groundwater	Groundwater Elevation
MW-4	02/14/94	5.45	1.69	3.76
	05/16/94		2.36	3.09
	08/25/94		3.25	2.20
	11/16/94		1.01	4.44
	02/14/95		6.11	2.72
	05/18/95		2.32	3.13
	03/27/96		2.35	3.10
	10/08/96		3.75	1.70
	01/13/97		1.69	3.76
	07/17/97		3.48	1.97
	01/19/98		1.73	3.72
	07/21/98		3.08	2.37

Notes: *All measurements are reported in feet; well elevation measured to top of casing

3.2 Groundwater Gradient

Groundwater elevations were calculated from water level measurements collected in the wells on July 21, 1998. Groundwater gradient and flow direction could not be calculated because only two wells remain to be monitored. Historic groundwater flow direction on site is summarized in Table 2.

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (foot/foot)	Direction
02/14/94	0.01	west
05/16/94	0.025	west
08/25/94	0.031	west
11/16/94	0.013	west
02/14/95	0.014	northwest
05/18/95	0.033	west
03/27/96	0.033	west-northwest
10/08/96	0.05	west
01/13/97	0.028	west
07/17/97	0.043	west
01/19/98	0.031	west
07/21/98	---	---

3.3 Groundwater Sampling

After water level measurements were collected, groundwater pH, temperature, dissolved oxygen (DO), turbidity, salinity, and electrical conductivity were monitored. The wells were not purged upon the written recommendation of the ACHCSA in their September 11, 1997 letter. The well monitoring worksheet is included as Appendix 1.

Well No.	Date Sampled	TPHg (µg/L)	TEPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3	02/14/94	780	< 50	0.6	0.6	1.7	2.7	---
	05/23/94	680	< 50	< 0.5	< 0.5	2.2	2.2	---
	08/25/94	310	---	6.4	2.7	1.9	4.1	---
	11/16/94	650	---	1.6	1.5	< 0.5	2.7	---
	02/14/95	70	---	< 0.5	< 0.5	< 0.5	< 0.5	---
	05/18/95	470	---	< 0.5	1.1	0.7	0.6	---
	03/27/96	740	390(d)*	7.9	19	3.0	8.0	---
	10/08/96	640	640(d)/680(m)	7.6	3.8	3.9	5.6	---
	01/13/97	640	1,300(k)/1,200(m)*	4.4	2.2	2.6	4.0	---
	07/17/97	600	1,400(d)*/1,100(m)	7.3	11	3.6	4.8	< 5.0
	01/19/98	< 50	520(d)*/1,000(m)*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
Destroyed	---	---	---	---	---	---	---	
MW-4	02/14/94	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	05/23/94	93	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	08/29/94	< 50	---	< 0.5	< 0.5	< 0.5	< 0.5	---
	11/16/94	100	---	2.7	< 0.5	< 0.5	1.0	---
	02/14/95	60	---	< 0.5	< 0.5	< 0.5	< 0.5	---
	05/18/95	< 50	---	< 0.5	< 0.5	< 0.5	< 0.5	---
	03/27/96	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	10/08/96	< 50	430(d)*	< 0.5	< 0.5	< 0.5	< 0.5	---
	01/13/97	< 50	830(d)/950(m)*	0.8	< 0.5	< 0.5	< 0.5	---
	07/17/97	< 50	190(d)*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	01/19/98	53	200(d)*/550(m)*	2.2	< 0.5	< 0.5	< 0.5	< 5.0
07/21/98	< 50	53(d)*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	

Notes: µg/L = micrograms per liter (approximately equivalent to ppb)
 < = Less than laboratory reporting limit indicated
 d = The noted concentration is TEPH as diesel
 m = The noted concentration is TEPH as motor oil
 k = The noted concentration is TEPH as kerosene
 *Hydrocarbons do not match laboratory's standard profile

5.0 DISCUSSION

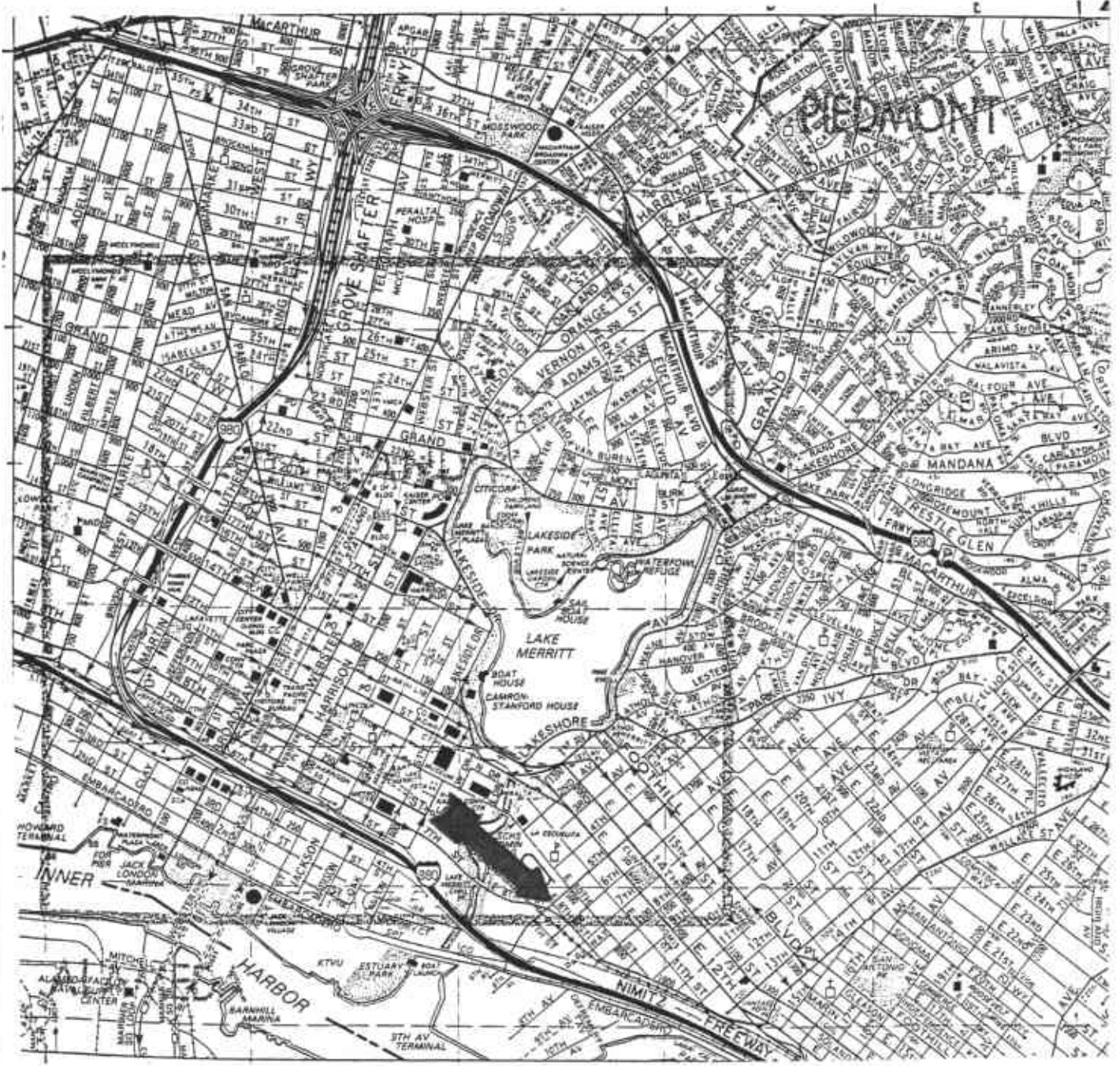
The concentrations of TEPH as diesel decreased since the last sampling event in the wells sampled. The concentrations of TEPH as motor oil were no longer detectable above laboratory reporting limits. Because only two wells remain at the site, groundwater gradient and flow direction can no longer be evaluated, but it is assumed that it is similar to previous sampling events. No concentrations of TPHg, BTEX, or MTBE were detected above the reporting limits in either of the wells.

6.0 CONCLUSIONS

Based on groundwater monitoring and sampling, ACC has the following conclusions:

- Results of the groundwater investigation indicated detectable concentrations of hydrocarbons in the diesel range in monitoring wells MW-1 and MW-4. The laboratory reported that the hydrocarbons detected did not match the standard profile.
- TPHg, BTEX, MTBE were not detected during this sampling event.
- The concentrations of TEPH decreased from the previous sampling event in both of the wells.

Remedial action and UST removal is tentatively scheduled for September 1998. Remedial action proposed includes removing the existing UST and removing impacted soil surrounding it and former well MW-3, which was not removed during the 1995 interim remedial action. ACC recommends meeting with ACHCSA to review results of the remedial action and deciding what, if any, groundwater monitoring would be appropriate to evaluate the effectiveness of the remedial action.



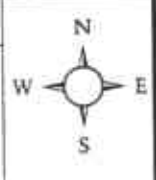
Title: **Location Map**
Peralta Community College District
Maintenance Yard
501 5th Avenue, Oakland, California

Figure Number: 1 Scale: 1" = 1/4 mi

Drawn By: CLM Date: 2/6/98

Project Number: 6045-14

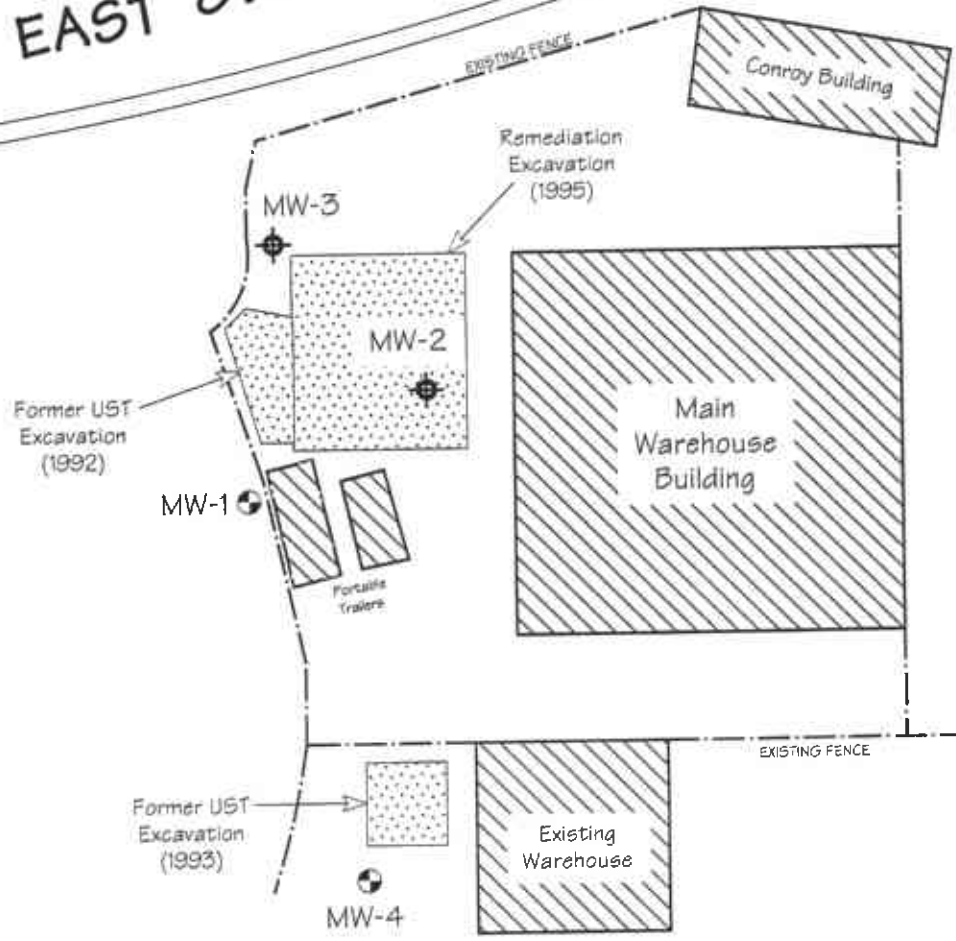
ACC Environmental Consultants
 7977 Capwell Drive, Suite 100
 Oakland, California 94621
 (510) 638-8400 Fax: (510) 638-8404



SOURCE: Thomas Bros. Guide, 1994

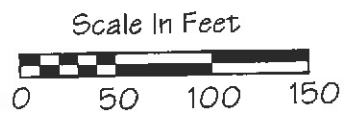
EAST 8th STREET

5th AVENUE



Legend

- MW-3 - Existing Groundwater Monitoring Well
- MW-2 - Former Groundwater Monitoring Well (destroyed)



Site Plan Peralta Community College District Maintenance Yard 501 5th Avenue, Oakland, California	
Figure Number: 2	Scale: 1" = 100'
Drawn By: JVC	Date: 3/25/98
Project Number: 6045-014.00	
ACC Environmental Consultants 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

WELL MONITORING WORKSHEETS

JOB NAME: <u>Peralta Corp. Yard</u>	PURGE METHOD: <u>Manual Bailing</u>
SITE ADDRESS: <u>501 5th Ave</u>	SAMPLED BY: <u>Eloy Cisneros</u>
JOB #: <u>6045-004.00</u>	LABORATORY: <u>Chromalab</u>
DATE: <u>7/21/98</u>	ANALYSIS: <u>TPH, BTEX, MTBE, TEPH</u>
Onsite Drum Inventory SOIL:	MONITORING <input checked="" type="checkbox"/> DEVELOPING <input type="checkbox"/>
EMPTY: WATER: <u>1=100% 1≈70%</u>	SAMPLING <input checked="" type="checkbox"/>

	PURGE VOL.	PURGE WATER READINGS						OBSERVATIONS	
	(Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.	<input type="checkbox"/>	<input type="checkbox"/>
WELL: <u>mw-1</u> DEPTH OF BORING: <u>14.33'</u> DEPTH TO WATER: <u>5.58'</u> WATER COLUMN: <u>8.75'</u> WELL DIAMETER: <u>2"</u> WELL VOLUME: <u>21.5gal</u> COMMENTS:	<u>1.5</u>	<u>6.49</u>	<u>20.0</u>	<u>4.92</u>	<u>0.25</u>	<u>47</u>	<u>1.74</u>	<input type="checkbox"/>	Froth Sheen Odor Type _____ Free Product Amount _____ Type _____ Other
WELL: <u>mw-4</u> DEPTH OF BORING: <u>14.34'</u> DEPTH TO WATER: <u>3.08'</u> WATER COLUMN: <u>11.26'</u> WELL DIAMETER: <u>2"</u> WELL VOLUME: <u>21.8gal</u> COMMENTS:	<u>1.8</u>	<u>6.50</u>	<u>23.8</u>	<u>4.15</u>	<u>0.21</u>	<u>597</u>	<u>1.46</u>	<input type="checkbox"/>	Froth Sheen Odor Type _____ Free Product Amount _____ Type _____ Other
WELL: DEPTH OF BORING: DEPTH TO WATER: WATER COLUMN: WELL DIAMETER: WELL VOLUME: COMMENTS:								<input type="checkbox"/>	Froth Sheen Odor Type _____ Free Product Amount _____ Type _____ Other

ANALYTICAL RESULTS AND CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1998

Submission #: 9807283

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: 501 5TH AVE
Received: July 21, 1998

Project#: 98-6045-004.00

re: 2 samples for TEPH analysis.
Method: EPA 8015M

Sampled: July 21, 1998 Matrix: WATER Extracted: July 23, 1998
Run#: 13874 Analyzed: July 24, 1998

Spl#	CLIENT SPL ID	Kerosene (ug/L)	Diesel (ug/L)	Motor Oil (ug/L)
196294	MW 1	N.D.	54	N.D.

Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.


Sampled: July 21, 1998 Matrix: WATER Extracted: July 23, 1998
Run#: 13874 Analyzed: July 28, 1998

Spl#	CLIENT SPL ID	Kerosene (ug/L)	Diesel (ug/L)	Motor Oil (ug/L)
196295	MW 4	N.D.	53	N.D.

Note: Hydrocarbon reported is in the late Diesel Range and does not match our Diesel Standard.

Reporting Limits	50	50	500
Blank Result	N.D.	N.D.	N.D.
Blank Spike Result (%)	--	--	--


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

July 30, 1998

Submission #: 9807283

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: 501 5TH AVE
Received: July 21, 1998

Project#: 98-6045-004.00

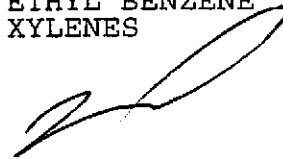
re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW 1
Spl#: 196294
Sampled: July 21, 1998

Matrix: WATER
Run#:13892

Analyzed: July 23, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	82	1
MTBE	N.D.	5.0	N.D.	91	1
BENZENE	N.D.	0.50	N.D.	91	1
TOLUENE	N.D.	0.50	N.D.	91	1
ETHYL BENZENE	N.D.	0.50	N.D.	91	1
XYLENES	N.D.	0.50	N.D.	93	1



Vincent Vancil
Analyst



Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

July 30, 1998

Submission #: 9807283

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: 501 5TH AVE
Received: July 21, 1998

Project#: 98-6045-004.00


re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW 4
Spl#: 196295
Sampled: July 21, 1998

Matrix: WATER
Run#: 13892

Analyzed: July 23, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	82	1
MTBE	N.D.	5.0	N.D.	91	1
BENZENE	N.D.	0.50	N.D.	91	1
TOLUENE	N.D.	0.50	N.D.	91	1
ETHYL BENZENE	N.D.	0.50	N.D.	91	1
XYLENES	N.D.	0.50	N.D.	93	1


Vincent Vancil
Analyst


Michael Verona
Operations Manager

01287/196294-196295
CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

STOR # 9807882 REP: PH
 CLIENT: ACC
 DDC# 07/26/98
 REP # 40973

40973
 Chain of Custody

DATE 7/21/98 PAGE 1 of 1

PROJ. MGR Stephen Southern
 COMPANY ACC Environmental
 ADDRESS 7977 Carwell Dr, Suite 100
Oakland, CA 94621

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) (510)638-8400
 (FAX NO.) (510)638-8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/STEX (EPA 602, 8020)	TEPH (EPA 3510/3550, 8015)	PURCEABLE AROMATICS STEX (EPA 602, 8020)	PURCEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+E, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)
	7/21/98	13:30	H ₂ O	HCL	X	X	X									X					
	7/21/98	14:00	H ₂ O	HCL	X	X	X														

PROJECT INFORMATION

PROJECT NAME 501 5th Avenue
 PROJECT NUMBER 98-6045-004.00
 P.O.# 98-6045-004.00

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS 8
 HEAD SPACE
 REC'D GOOD CONDITION/COLD
 CONFORMS TO RECORD

TAT STANDARD 5-DAY 24 48 72 OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY

1. [Signature] (TIME)
Elly Lisneros 7/21/98 (DATE)
ACC Environmental (COMPANY)

2. [Signature] (TIME)
[Printed Name] (DATE)
[Company] (COMPANY)

RECEIVED BY

1. [Signature] (TIME)
[Printed Name] (DATE)
[Company] (COMPANY)

2. [Signature] (TIME)
[Printed Name] (DATE)
[Company] (COMPANY)

RECEIVED BY (LABORATORY)

1. [Signature] (TIME)
[Printed Name] (DATE)
[Company] (COMPANY)

2. [Signature] (TIME)
[Printed Name] (DATE)
[Company] (COMPANY)

CHROMALAB, INC.

Environmental Service (SDB)

Sample Receipt Checklist

Client Name: ACC ENVIRONMENTAL CONSULTANTS Date/Time Received: 07/21/98 | 1570
Reference/Submis: 40973 | 9807283 Received by: BM
Checklist completed by: Chris Rowley 7/22/98 Reviewed by: gmc 7/22/98
Signature | Date | Initials | Date
Matrix: H₂O Carrier name: Client - C/L

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- * Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Temp: 3.3°C Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? YES Adjusted? Checked by [Signature] chemist for VOAs

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: No sample ID'S listed on COC

Corrective Action: Sample ID'S taken from containers