

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510)567-6700

March 7, 1996
StID # 4875

REMEDIAL ACTION COMPLETION CERTIFICATION

Ms. Cynthia Adkisson
EBMUD
375 11th St.
Oakland CA 94607

RE: EBMUD Oakport Wet Weather Facility, 5597 Oakport, Oakland
CA 94621

Dear Ms. Adkisson:

This letter confirms the completion of site investigation and remedial action for the three underground fuel tanks (1-1000 gallon unknown fuel, 1-2000 gallon diesel and 1-7500 gallon gasoline) at the above described location.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Jun Makishima
Acting Agency Director

enclosure- case closure summary to Mr. Harper only

c: G. Coleman, Acting Chief, Hazardous Materials Division-files
Kevin Graves, RWQCB
Mike Harper, SWRCB

RACC5597

ec/files

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 12/13/95

Agency name: Alameda County-HazMat

Address: 1131 Harbor Bay Parkway
Rm 250, Alameda CA 94502

City/State/Zip: Alameda

Phone: (510) 567-6700

Responsible staff person: Barney Chan

Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: EBMUD Oakport Wet Weather Facility

Site facility address: 5597 Oakport St., Oakland CA 94621

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: 4875

ULR filing date: 5/13/94

SWEEPS No: N/A

Responsible Parties:

Addresses:

Phone Numbers:

EBMUD
Ms. Cynthia Adkisson

375 11th St.
Oakland CA 94607

(510) 287-1627

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1000	unknown fuel	Removed	07/08/88
2	2000	diesel	Removed	07/08/88
3	7500	gasoline	Removed	07/08/88

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? Yes

Date approved by oversight agency: wp approved on 7/19/94

Monitoring Wells installed? YES **Number:** 3

Proper screened interval? Yes, from approx. 6-26'

Highest GW depth: 4.26' bgs **Lowest depth:** 8.74' bgs

95 JAN -2 PM 2:14
PROTECTION

Leaking Underground Fuel Storage Program

Flow direction: Easterly

Most sensitive current use: Facility serves as an emergency storage and primary water treatment facility for the City of Oakland during wet weather events.

Are drinking water wells affected? No Aquifer name:

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? **Yes** Where is report(s)? Alameda County
 1131 Harbor Bay Parkway,
 Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Tanks	1-1000 gallon 1-7500 gallon 1-2000 gallon	Disposed @ Levin Metals Corp., Richmond by H&H Ship Service	07/08/88
Soil	10-55 gallon drums	Disposed at Forward Landfill, Manteca	04/95
Liquid	14-55 gallon 100 gallon	Disposed at Romic Env. Tech, Palo Alto Disposed by H&H Ship Service	04/95 7/8/88
Groundwater	2-55 gallon purge	Disposed in Oakport Sanitary Sewer	7/95

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>* Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	<2.0	10 @5' MW1	8790	<40
TPH (Diesel)	<6.0	24 @5.5' MW3	30,000	360
Benzene	<0.02	0.025 @5' MW1	<1.0	<0.2
Toluene	<0.02		<1.0	<0.2
Ethylbenzene	<0.02		<1.0	<0.2
Xylenes	<0.02		3040	<0.2
Organic lead	< 0.25			
Other: TDS			32,000,000	

Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.):

* Water sample a grab sample from excavation pit.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? YES

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? YES

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? No

Monitoring wells Decommissioned: NO, pending closure

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan

Title: Hazardous Materials Specialist

Signature: *Barney M Chan*

Date: 12/13/95

Reviewed by

Name: Dale Klettke

Title: Hazardous Materials Specialist

Signature: *Dale Klettke*

Date: 11/27/95

Name: Eva Chu

Title: Haz. Mat. Specialist

Signature: *eschu*

Date: 11/28/95

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Approved*

RWQCB Staff Name: K. Graves

Title: AWRCE

Date: 12/27/95

K. Graves

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

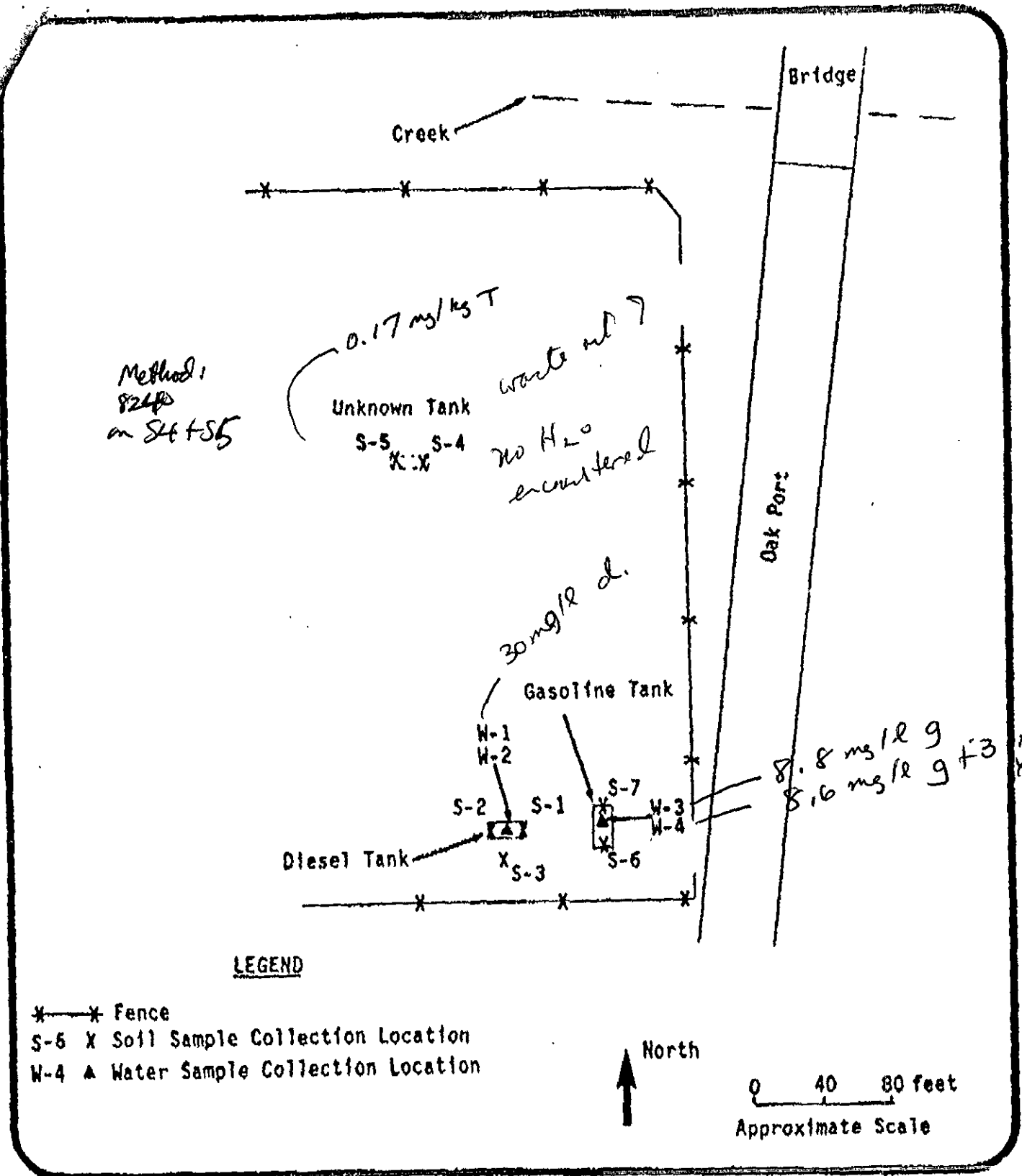
On July 8, 1988, three underground storage tanks were removed from the above site, one 7500 gallon gasoline, one 2000 gallon diesel and one 1000 gallon waste oil. These tanks were removed in support of the construction of the 1,000,000 gallon capacity catch basin at the Oakport Facility. Soil and grab groundwater samples were taken from the excavation of the diesel and gasoline tanks. Only soil samples were taken beneath the 1000 gallon fuel tank since groundwater was not encountered in this excavation.

The soil and grab groundwater samples from the fuel pits were analyzed for TPHg, TPHd and BTEX. The soil samples from the 1000 gallon tank were only analyzed for volatile organics by Method 8240. The soil samples from the gasoline and diesel excavation were ND for all contaminants, however, the grab groundwater samples detected 30 mg/l diesel, 8.8 mg/l gasoline and 3 mg/l total xylenes. The soil samples beneath the 1000 gallon tank detected only 0.17 ppm toluene.

In order to construct the catch basin, extensive excavation (28,000 cy) and groundwater dewatering were conducted by EBMUD. The soils beneath the Wet Weather catch basin were on the average excavated to approximately 15' bgs. All soils surrounding the former USTs was removed and clean fill brought to the site.

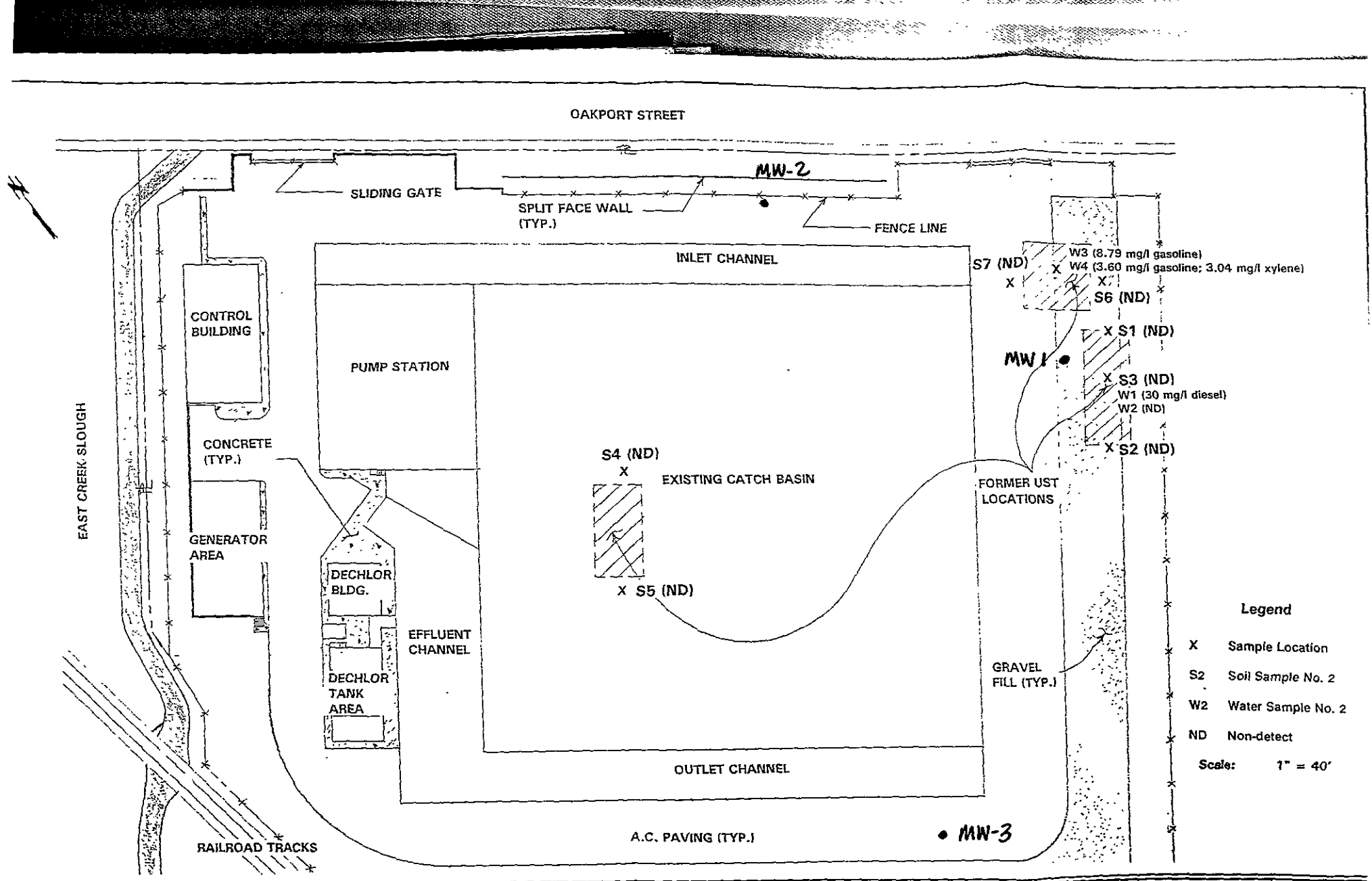
On August 23 and 24, 1994 three monitoring wells were installed at this site. The placement of the wells were based on the accessible areas around the catch basin and the assumption of a southwesterly groundwater gradient consistent with the regional flow direction. However, the actual site specific gradient has been consistently in the easterly direction. This anomaly has not been explained but could be due to the extensive excavation and installation of the catch basin which extends to 15' bgs. The proximity to the East Creek Slough and San Leandro Bay may also play a role. Based on the calculated flow direction, MW2 is downgradient to the former 1000 gallon tank. MW1 is located next to both the former gasoline and diesel tanks, albeit, not downgradient.

During the past four consecutive monitoring events, low to ND levels of TPHg, d and BTEX have been reported. Given the absence of soil contamination, the absence of benzene in the original groundwater samples, it is likely that the residual TPHg and d has naturally biodegraded over the seven plus years since the tank removals. The reported levels of TPHg, d and BTEX are consistent with this having occurred. No additional sampling is warranted. In addition TDS levels from MW-1 were 32,000 ppm indicating non-potable water.



SITE PLAN
Soil And Groundwater Sample Collection
5597 Oak Port
Oakland, California

Figure No. **1**
530021
Project No.




	<p>PREVIOUS SAMPLING LOCATIONS</p> <p>EAST BAY MUNICIPAL UTILITY DISTRICT</p> <p>OAKPORT FACILITY</p>	
PROJECT NO.: 40516	DESIGNED BY: KTR	APPROVED BY: ATB
		DATE: JULY 1994

FIGURE 3

Table 3

Summary of Groundwater Analytical Data¹
Third and Fourth Quarters 1994 and First Quarter 1995
Oakport Wet Weather Facility
Oakland, California

Sample Location	Date Collected	BTEX ² ($\mu\text{g/l}$)	TPH-d/TPH-g ³ ($\mu\text{g/l}$)	TDS ⁴ (mg/l)
MW-1/Duplicate	8/31/94	ND	ND	32,000
MW-2	8/31/94	ND	ND	11,000
MW-3	8/31/94	ND	ND	2,400
MW-1/Duplicate	11/16/94	0.3/0.2 Benzene 0.6/0.6 Toluene 2.8/2.8 Total Xylenes	71/65 TPH-d 45/ND TPH-g	Not Analyzed
MW-2	11/16/94	0.2 Benzene 0.4 Toluene 2.8 Total Xylenes	64 TPH-d ND TPH-g	Not Analyzed
MW-3	11/16/94	0.3 Toluene	130 TPH-d ND TPH-g	Not Analyzed
MW-1/Duplicate	02/07/95	ND	300/300 TPH-d ND/ND TPH-g	Not Analyzed
MW-2	02/07/95	0.5 Toluene 0.4 Total Xylenes	68 TPH-d ND TPH-g	Not Analyzed
MW-3	02/07/95	ND	220 TPH-d ND TPH-g	Not Analyzed

Notes:

- $\mu\text{g/l}$ = Microgram(s) per liter.
 mg/l = Milligram(s) per liter.
 ND = Not detected.
 TPH-d = Total petroleum hydrocarbons as diesel.
 TPH-g = Total petroleum hydrocarbons as gasoline.
 1 = Only constituents present above detection limits are presented.
 2 = Benzene, toluene, ethylbenzene, and total xylenes (BTEX) analyzed using EPA Method 8020. Laboratory detection limit = $0.2 \mu\text{l}$.
 3 = Total petroleum hydrocarbons as diesel and total petroleum hydrocarbons as gasoline analyzed using California LUFT Manual. Laboratory detection limit = $40 \mu\text{g/l}$ (TPH-d); $40 \mu\text{g/l}$ (TPH-g).
 4 = Total dissolved solids (TDS) analyzed using EPA Method 160.1.

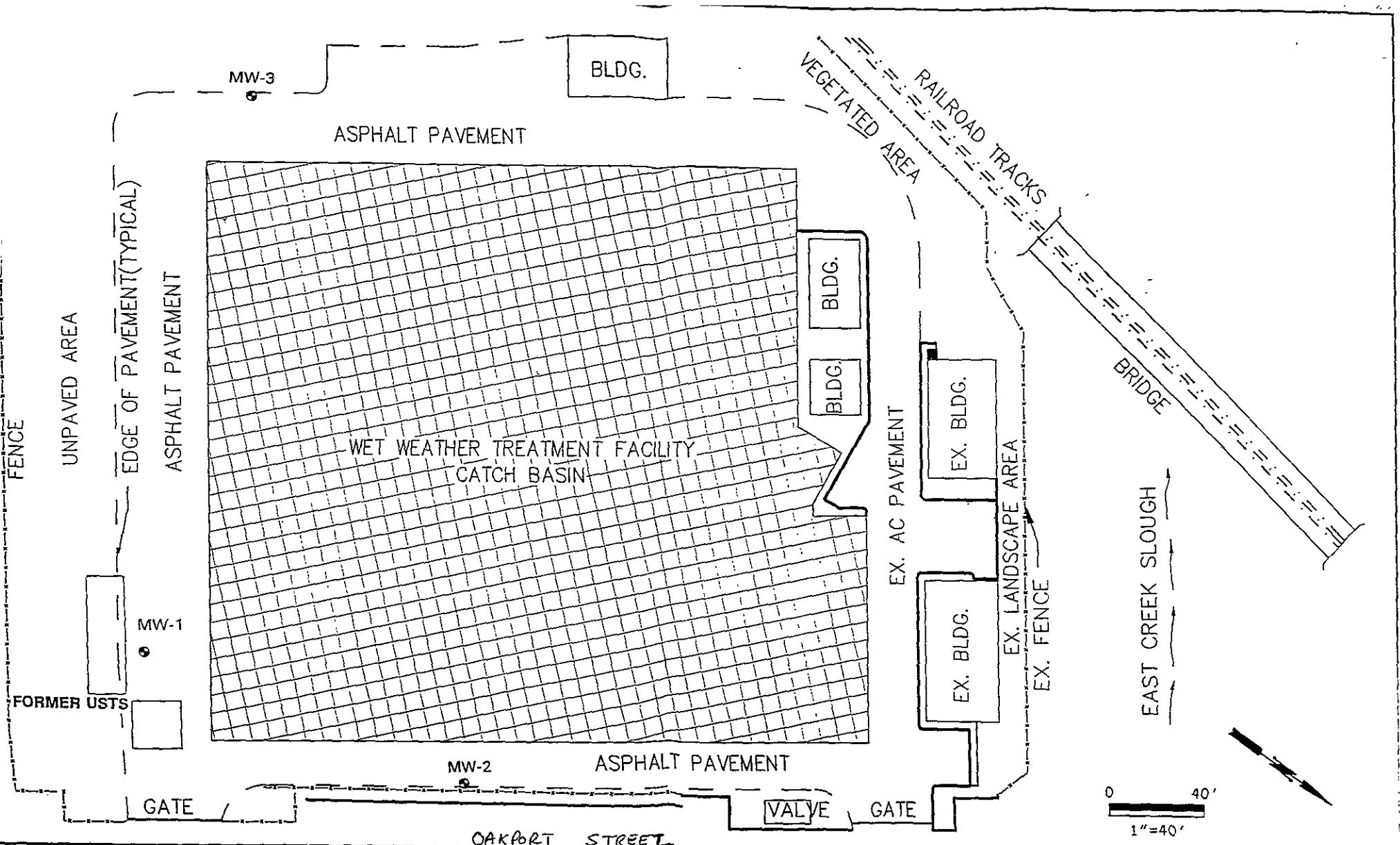
Table 2

**Summary of Groundwater Analytical Data¹
 Second Quarter 1995
 Oakport Wet Weather Facility
 Oakland, California**

Sample Location	Date Collected	BTEX ² ($\mu\text{g/l}$)	TPH-d/TPH-g ³ ($\mu\text{g/l}$)	TDS (mg/l)
MW-1/Duplicate	05/24/95	All constituents were non-detect.	170/190 TPH-d ND/ND TPH-g	Not Analyzed
MW-2	05/24/95	All constituents were non-detect.	360 TPH-d ND TPH-g	Not Analyzed
MW-3	05/24/95	All constituents were non-detect.	250 TPH-d ND TPH-g	Not Analyzed

Notes:

- $\mu\text{g/l}$ = Microgram(s) per liter.
- mg/l = Milligram(s) per liter.
- ND = Not detected.
- TPH-d = Total petroleum hydrocarbons as diesel.
- TPH-g = Total petroleum hydrocarbons as gasoline.
- 1 = Only constituents present above detection limits are presented.
- 2 = Benzene, toluene, ethylbenzene, and total xylenes (BTEX) analyzed using EPA Method 8020. Laboratory detection limit = 0.2 $\mu\text{g/l}$.
- 3 = Total petroleum hydrocarbons as diesel and total petroleum hydrocarbons as gasoline analyzed using California LUFT Manual. Laboratory detection limit = 50 $\mu\text{g/l}$ (TPH-d); 40 $\mu\text{g/l}$ (TPH-g).



BLACK & VEATCH
Waste Science, Inc.

PROJECT NO.: 40516

DESIGNED: JAE

APPROVED: AGM

DATE: OCTOBER 1994

MONITORING WELL LOCATION MAP
EAST BAY MUNICIPAL UTILITY DISTRICT
OAKPORT WET WEATHER FACILITY
OAKLAND, CALIFORNIA

FIGURE 3