ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

StId 3062

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

June 25, 1997

Attn: Carlos Lopez
Department of Transportation
1120 "N" St., 3rd Floor
Sacramento Ca 95814

Dear Mr. Lopez:

Subject: Fuel Leak Site Case Closure - Caltrans, 21195 Center St., Castro Valley CA 94546

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 225299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, Alameda County, Division of Environmental Health Local Oversight Program is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release(s) at the subject site.

Site Investigation and Cleanup Summary

Please be advised that the following conditions exist at the site:

- 54 parts per million (ppm) Total Petroleum Hydrocarbons (TPH) as gasoline, 3.74 ppm TPH as diesel, 0.58 ppm ethylbenzene, and 0.226 ppm xylene remain in soil in the vicinity of the former UST pit and dispenser area.

- 1.9 parts per billion (ppb) benzene, 3.1 ppb toluene, 1.3 ppb ethylbenzene, and 6.9 ppb xylenes were detected in March 1996 in groundwater.

If you have any questions, please contact this office at (510)567-6700.

Sincerely,

Amy Leech
Hazardous Materials Specialist

Enclosures:
1. Case Closure Letter
2. Case Closure Summary

c: Alameda County Planning Department (QIC #50506)
ALL-file

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June 25, 1997

Attn: Carlos Lopez
Department of Transportation
1120 "N" St., 3rd Floor
Sacramento CA 95814

RE: UNDERGROUND STORAGE TANK (UST) CASE
(1-1,000 gallon gasoline and 1-260 gallon diesel tank)
Caltrans located at 21195 Center St., Castro Valley CA 94596
SITE ID #3062

Dear Mr. Lopez:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the 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 a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

c: Kevin Graves, RWQCB
Dave Deaner, UST Cleanup Fund (encl.-Case Closure Summary)
ALL-File

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Agency name: **Alameda County-HazMat** Date: **September 26, 1996**
Date:City/State/Zip: **Alameda, CA 94502** Address: **1131 Harbor Bay Pkwy**
Responsible staff person: **Amy Leech** Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Caltrans**
Site facility address: **21195 Center St., Castro Valley, CA 94546**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3062**
URF filing date: **02/28/89** SWEEPS No: **N/A**

Responsible Parties:	Address:	Phone Numbers:
Attn: Carlos Lopez	1120 "N" St., 3rd Floor	
Dept. of Transportation	Sacramento CA 95814	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	1,000	gasoline	removed	01/18/89
2	260	diesel	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**

Site characterization complete? **Yes**
Date approved by oversight agency: **09/18/96**

Monitoring Wells installed? **Yes** Number: **4**

Proper screened interval? **Yes**

Highest GW depth below ground surface: **25.78 ft** Lowest depth: **32.25 ft**

Flow direction: **Southwest**

Most sensitive current use: **Commercial**

Are drinking water wells affected? **No** Aquifer name: **N/A**

Is surface water affected? **No** Nearest affected SW name:**N/A**

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

Report(s) on file? **YES** Where is report(s) filed?
Alameda County, 1131 Harbor Bay Pkwy, Alameda, CA 94502

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (cont'd)

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
USTs	1,000-gal.	Unknown	01/18/89
	260-gal.	"	
Soil	391 tons	Reed & Graham, Inc. 690 Sunol St., San Jose	09/22/92

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[3]	Before	After
TPH (Gasoline)	860	54	ND	ND
TPH (Diesel)	2,400[2]	3.74	ND	ND
Benzene	0.64	ND	ND	1.9
Toluene	0.70	ND	ND	3.1
Ethylbenzene	9.7	0.58	ND	1.3
Xylene	110	0.226	ND	6.9
HVOCs	NT	NT	ND	NT

ND=non-detect
NT=not tested

1 Soil sample collected from boring SB-5 located @ 6.0 ft. bgs within former gasoline UST pit in 01/90.
2 Soil sample collected from boring SB-1 located @ 31ft. bgs in the fuel dispensing area .
3 Confirmatory soil sample collected at excavation boundaries after overexcavation activities in 9/92.

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

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

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

Does corrective action protect public health for current land use? **YES**
Site management requirements: **n/a**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **No, pending case closure review.**
Number Decommissioned: **0** Number Retained: **4 (MW-1, VW-1, VW-2, and VW-3)**

List enforcement actions taken: **n/a**
List enforcement actions rescinded: **n/a**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Amy Leech
Signature: A Leech
Title: Hazardous Materials Specialist
Date: 10/10/96

Reviewed by
Name: Barney Chan
Signature: Barney Chan
Title: Hazardous Materials Specialist
Date: 10/10/96

Name: Thomas Peacock
Signature: Thomas Peacock
Title: Supervising, Hazardous Materials Spec.
Date: 10-9-96

VI. RWQCB NOTIFICATION

Date Submitted to RB:
RWQCB Staff Name: Kevin Graves, P.E.
Title: Assoc. Water Resources Control Engineer

RB Response: Approved
Signature: K Graves
Date: 10-18-96

VII. ADDITIONAL COMMENTS

On January 18, 1989, two USTs (one 1,000-gallon gasoline UST and one 260-gallon diesel UST) were reportedly removed from the Caltrans Hayward Maintenance Yard located at 21195 Center Street in Castro Valley, California. (See attachment 1 for site location.) Three soil samples were collected during tank removal activities; analytical results identified 1.7 ppm TPH-G, 2,100 ppm TPH-D, and non-detect for BTEX.

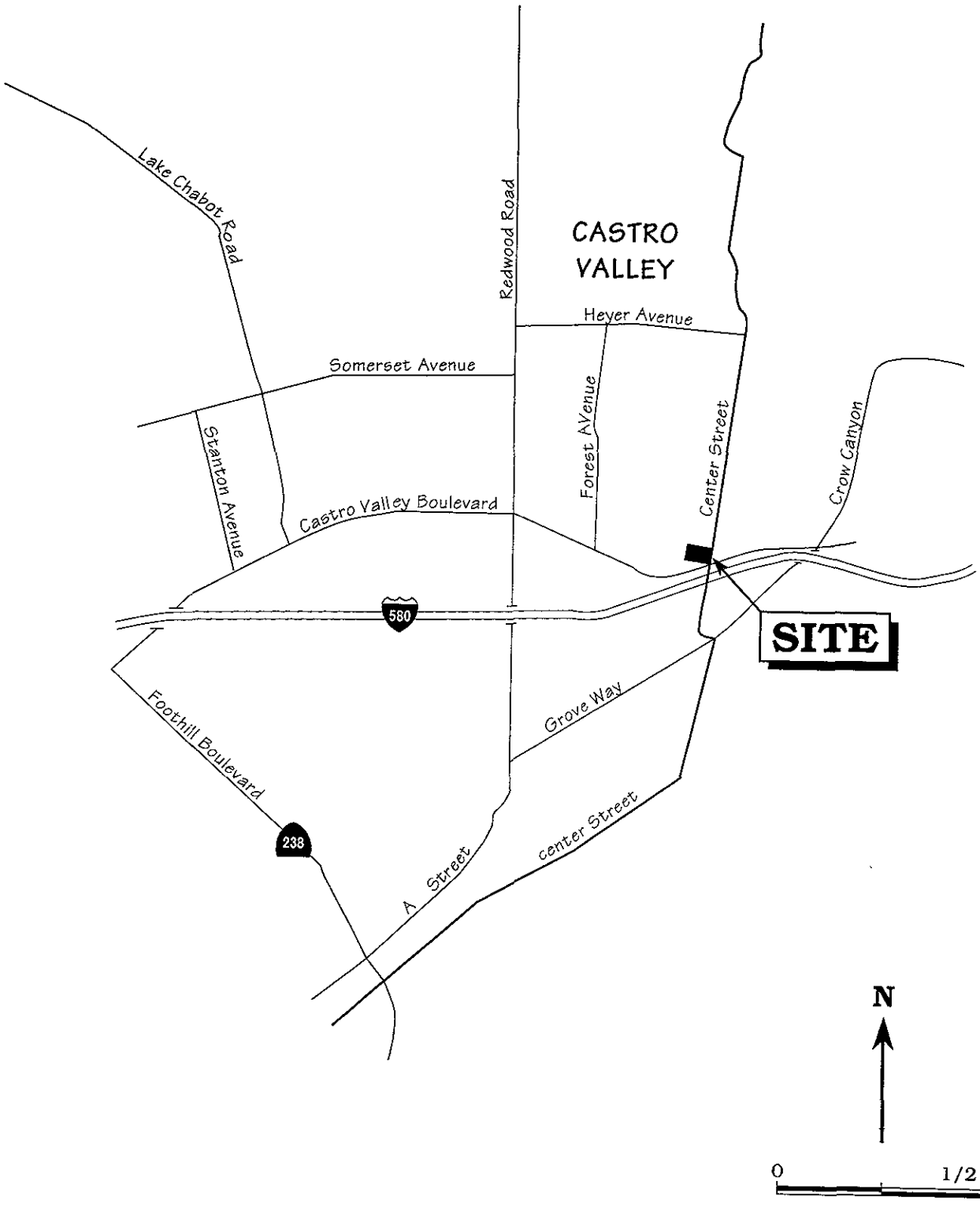
Subsequent to the UST removals and during investigations conducted in January 1990 and February 1991, 14 soil borings (SB1 - SB6 and B1 - B8) were emplaced in the vicinity of the former UST pit and dispenser area to assess the vertical and lateral extent of soil contamination. Soil contamination was determined to be laterally located within a forty foot radius from the fuel dispensing area and vertically to approximately 35 feet bgs. (See attachment 2 for boring locations and results.) In addition to the eight soil borings installed in 2/91, one groundwater monitoring well (MW-1) was installed near the southeastern extent of the contaminant plume. Boring and construction logs are not available for this well; however, groundwater was sampled and analyzed for TPH, BTEX, and HVOCs. All results were unremarkable.

Overexcavation of approximately 391 tons of contaminated soil was completed in the vicinity of the former USTs and dispensing area during September 1992. The excavation extended laterally approximately 30 ft. and vertically to approximately 35 ft. bgs. Confirmatory results of soil samples collected at the excavation perimeter identified 54 ppm TPH-G, 3.74 ppm TPH-D, and ND to trace concentrations of BTEX. (See attachment 3 for sample locations and results.)

Three additional monitoring wells (VW-1, VW-2, and VW-3) were installed on 09/28/92 to assess if groundwater at this site had been adversely impacted by petroleum hydrocarbons (PHs). (See attachment 4 for boring/well completion logs.) Soil samples were apparently not analyzed for PHs. Groundwater from VW-1 through VW-3 was monitored and sampled five times from 10/94 to 3/96 . Groundwater samples were non-detect for TPH-G, TPH-D, and BTEX during all five sampling events, except for low levels of BTEX detected during the last quarter of sampling in 03/96. (See attachment 5 for MW locations and historical results.)

No further investigations are recommended at this site since adequate soil removal was achieved and residual concentrations of petroleum hydrocarbons detected in soil and groundwater do not appear to be a significant risk to human health or the environment.

SIERRA



Base map ref: California State Automobile Association (AAA)

Figure 1. Site Location Map - Caltrans Maintenance Facility, 21175 Center Street, Castro Valley, California

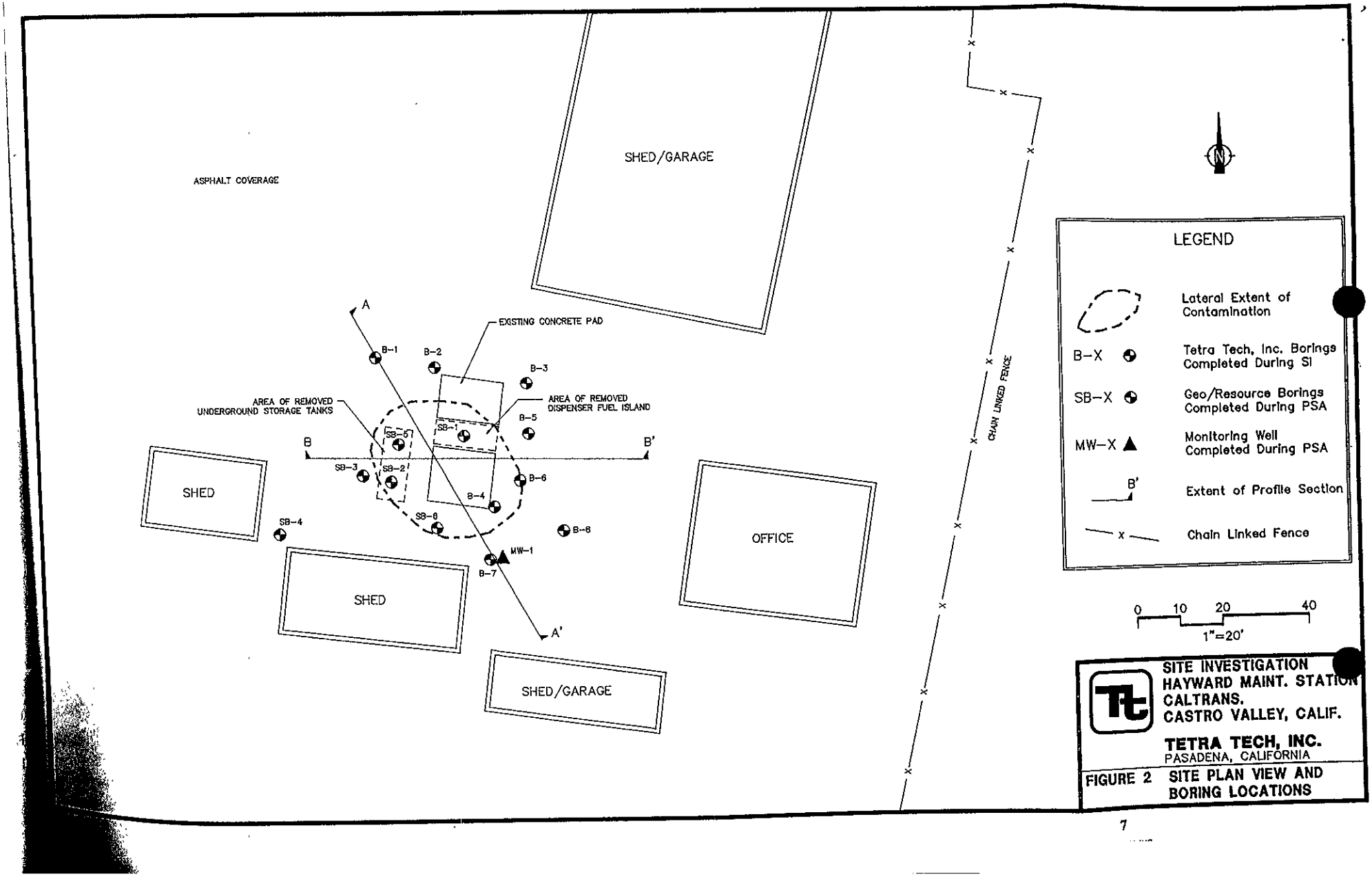

SHED/GARAGE
ASPHALT COVERAGE
A
EXISTING CONCRETE PAD
B-1
B-2
B-3
AREA OF REMOVED UNDERGROUND STORAGE TANKS
AREA OF REMOVED DISPENSER FUEL ISLAND
SB-1
SB-5
B-5
B
B'
SB-3
SB-2
B-6
SHED
B-4
SB-6
SB-4
B-8
OFFICE
MW-1
B-7
SHED
A'
SHED/GARAGE
CHAIN LINKED FENCE
N
LEGEND
Lateral Extent of Contamination
B-X
Tetra Tech, Inc. Borings Completed During SI
SB-X
Geo/Resource Borings Completed During PSA
MW-X
Monitoring Well Completed During PSA
B'
Extent of Profile Section
x
Chain Linked Fence
0 10 20 40
1"=20'
SITE INVESTIGATION
HAYWARD MAINT. STATION
CALTRANS.
CASTRO VALLEY, CALIF.
TETRA TECH, INC.
PASADENA, CALIFORNIA
FIGURE 2 SITE PLAN VIEW AND BORING LOCATIONS

TABLE 1
SOIL SAMPLING RESULTS
HAYWARD MAINTENANCE STATION, CASTRO VALLEY, CALIFORNIA
CASTRO VALLEY, CALIFORNIA

Sample (Depth)	TPH as Gasoline (mg/kg)	TPH as Diesel (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Total Xylenes (ug/kg)
SB-1 @ 4.0'	310	ND	210	360	5,100	8,100
SB-1 @ 8.0'	NT	260	NT	NT	NT	NT
SB-1 @ 11.5	3.7	ND	ND	ND	50	90
SB-1 @ 16.5'	NT	950	NT	NT	NT	NT
SB-1 @ 21.5'	790	ND	ND (100)	ND (100)	5,300	42,000
SB-1 @ 31.0'	NT	2,400	NT	NT	NT	NT
SB-2 @ 5.5'	ND (10)	1,300	ND	ND	40	150
SB-2 @ 10.5'	NT	ND	NT	NT	NT	NT
SB-2 @ 16.5'	ND	ND	ND	ND	ND	ND
SB-2 @ 26.0'	ND	ND	ND	ND	ND	ND
SB-2 @ 30.5'	NT	ND	NT	NT	NT	NT
SB-2 @ 36.5'	ND	ND	ND	ND	ND	ND
SB-3 @ 5.5'	ND	ND	ND	ND	ND	ND
SB-3 @ 11.5'	NT	ND	NT	NT	NT	NT
SB-3 @ 16.5'	ND	ND	ND	ND	ND	ND
SB-3 @ 21.5'	NT	ND	NT	NT	NT	NT
SB-3 @ 25.5'	ND	ND	ND	ND	ND	ND
SB-3 @ 36.2'	NT	ND	NT	NT	NT	NT
SB-4 @ 6.0'	ND	ND	ND	ND	ND	ND
SB-4 @ 11.0'	NT	ND	NT	NT	NT	NT
SB-4 @ 16.0'	ND	ND	ND	ND	ND	ND
SB-4 @ 21.0'	NT	ND	NT	NT	NT	NT
SB-4 @ 26.0'	ND	ND	ND	ND	ND	ND
SB-4 @ 36.0'	NT	ND	NT	NT	NT	NT
SB-5 @ 6.0'	860	400	640	700	9,700	110,000
SB-5 @ 11.0'	NT	ND	NT	NT	NT	NT
SB-5 @ 16.5'	15	ND	ND	20	150	360
SB-5 @ 21.5'	NT	100	NT	NT	NT	NT
SB-5 @ 26.5'	1.0	ND	ND	ND	ND	110
SB-5 @ 36.0'	NT	ND	NT	NT	NT	NT
SB-6 @ 6.5'	ND (2.0)	400	ND	ND	ND	ND
SB-6 @ 11.5'	NT	19	NT	NT	NT	NT
SB-6 @ 16.0'	ND	ND	ND	ND	ND	ND
SB-6 @ 21.5'	NT	ND	NT	NT	NT	NT
SB-6 @ 31.5'	ND	ND	ND	ND	ND	ND
Reporting Limit	(1.0)	(10)	(10)	(10)	(10)	(20)

ND = Not Detected at or above indicated Reporting Limit.
NT = Not Submitted to a Laboratory for Chemical Testing.

Note: SB-4, SB-5 and SB-6 are referred to as MW-1, MW-2 and MW-3, respectively in original laboratory data included in Appendix C.

244w : 1516-4.wk1

Table 6-1

SUMMARY OF LABORATORY RESULTS

Total Petroleum Hydrocarbons (8015 M)*

Depth	Borings B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	MW-1
5	ND*	ND	ND	ND	ND	ND	ND	ND	N/A
10	ND	ND	ND	ND	ND	ND	ND	ND	N/A
15	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
20	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
25	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
30	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
35	ND	ND	N/A	ND	ND	N/A	ND	ND	[illegible]
40	N/A	ND	N/A	ND	N/A	N/A	ND	N/A	[illegible]
45	N/A	N/A	N/A	ND	N/A	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	ND	N/A	N/A	N/A	N/A	N/A

Volatile Aromatic Organics (8020)**

Depth	Borings B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	MW-1
5	ND**	ND	ND	ND	ND	ND	ND	ND	N/A
10	ND	ND	ND	ND	ND	ND	ND	ND	N/A
15	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
20	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
25	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
30	ND	ND	ND	ND	ND	N/A	ND	ND	N/A
35	ND	ND	N/A	ND	ND	N/A	ND	ND	N/A
40	N/A	ND	N/A	ND	N/A	N/A	ND	N/A	N/A
45	N/A	N/A	N/A	Benzene-ND Toluene-5 Xylene-5 Ethylbenzene-10	N/A	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	Benzene-ND Toluene-4 Xylene-13 Ethylbenzene-5	N/A	N/A	N/A	N/A	N/A

*Detection Limit of <10 parts per million (ppm)
**Detection Limit of 1 part per billion (ppb)
ND - Not Detected Above Detection Limits
N/A - Not Applicable

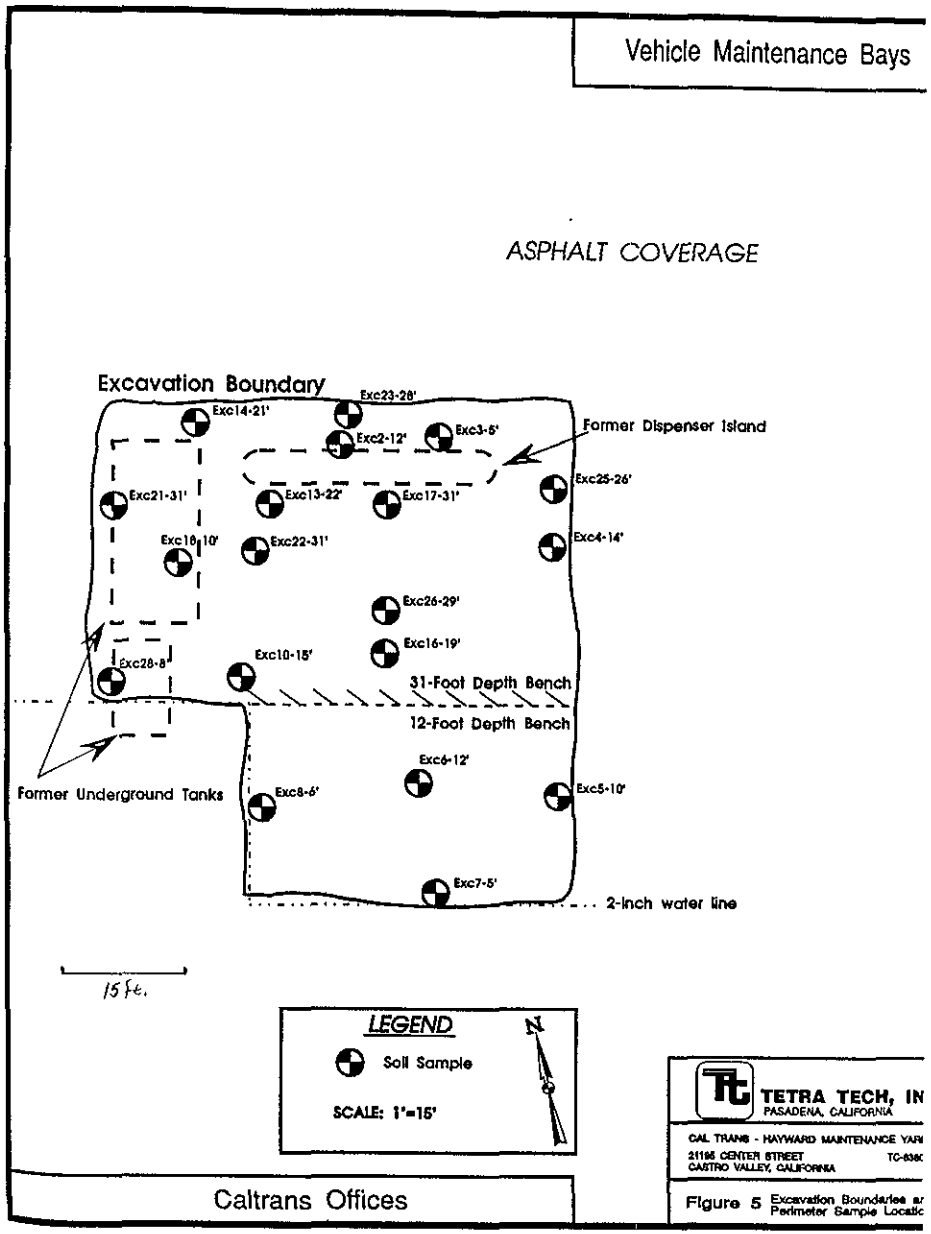
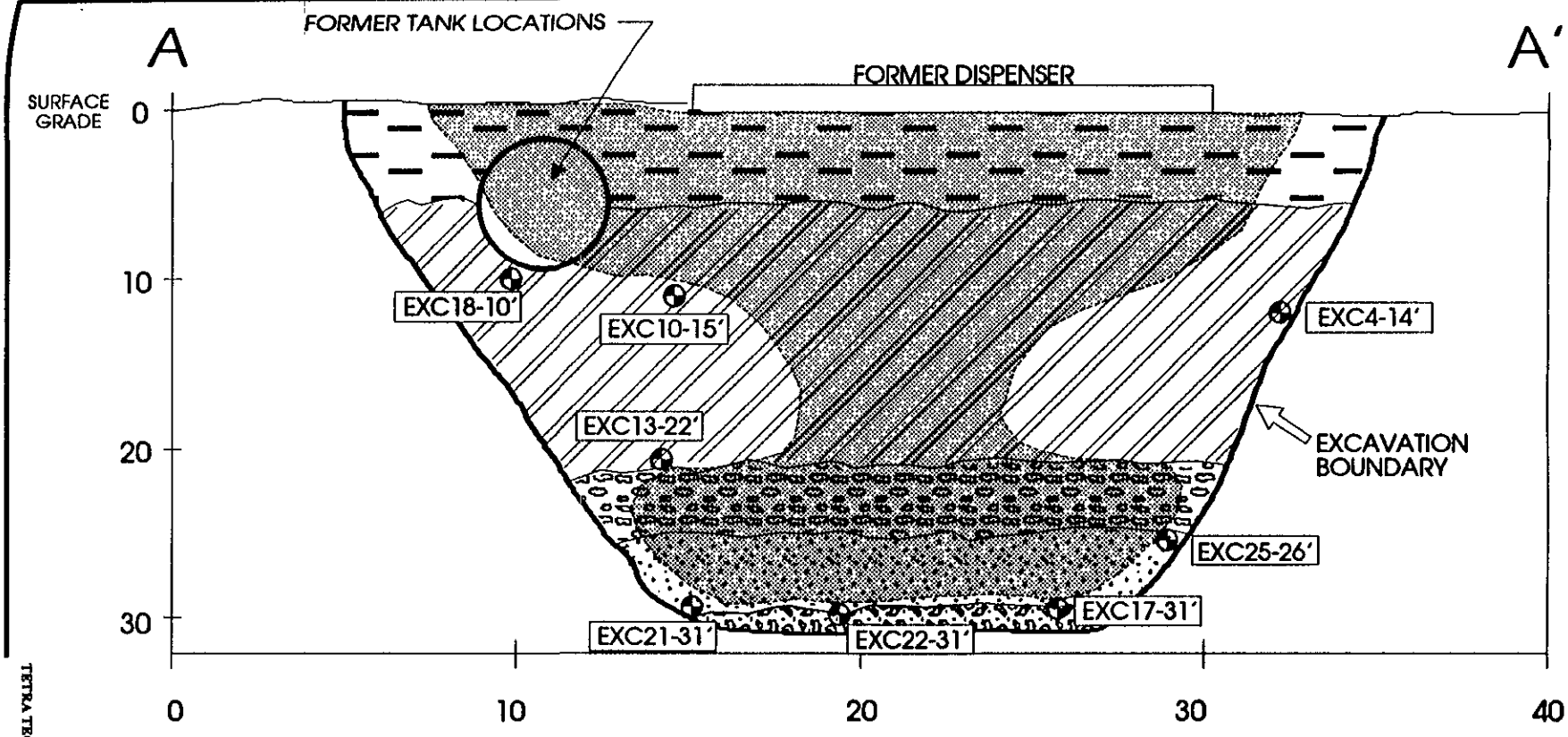


TABLE 6-1
LABORATORY RESULTS OF FINAL PERIMETER AND FLOOR SAMPLES

SAMPLE NUMBER	SAMPLE LOCATION AND DEPTH	TPH - gasoline (ppm)	TPH - diesel (ppm)	B/T/X/E (ppm)
EXC-2	North wall - 12'	ND	.55	ND/ND/.009/ND
EXC-3	North wall - 5'	ND	ND	ND/ND/ND/ND
EXC-4	Northeast corner - 14'	ND	ND	ND/ND/ND/ND
EXC-5	Southeast corner - 10'	ND	ND	ND/ND/ND/ND
EXC-6	Excavation Floor - 12'	ND	ND	ND/ND/ND/ND
EXC-7	Higher South wall - 5'	ND	ND	ND/ND/ND/ND
EXC-8	Southwest corner - 6'	ND	ND	ND/ND/ND/ND
EXC-10	Northwest corner - 15'	ND	ND	ND/ND/ND/ND
EXC-13	North wall - 22'	ND	ND	ND/ND/ND/.58
EXC-14	Northwest corner - 21'	ND	ND	ND/ND/ND/ND
EXC-15	West wall - 21'	ND	ND	ND/ND/ND/ND
EXC-16	Lower south wall - 19'	ND	ND	ND/ND/ND/ND
EXC-17	Floor - 31'	ND	ND	ND/ND/ND/ND
EXC-18	West wall - 10'	ND	3.74	ND/ND/.226/ND
EXC-21	West wall - 31'	ND	ND	ND/ND/ND/ND
EXC-22	Floor - 31'	ND	ND	ND/ND/ND/ND
EXC-23	North wall - 28'	ND	ND	ND/ND/ND/ND
EXC-25	East wall - 26'	ND	ND	ND/ND/ND/ND
EXC-26	Lower South wall - 29'	ND	ND	ND/ND/ND/ND
EXC-28	Southwest corner - 8'	54	2	ND/ND/ND/ND

Detection Limit of 0.5 ppm for gasoline and diesel fractions
Detection Limit of 0.005 ppm for BTXE compounds
ND - Not Detected

3



1" = 5'

SECTION FROM WEST TO EAST

HORIZONTAL EXAGGERATION 2 : 1

LEGEND

ESTIMATED BOUNDARY OF SOIL CONTAMINATION

APPROXIMATE DEPTH OF SOIL CLASSIFICATION CHANGE

EXCXX-XX' LOCATION OF SOIL SAMPLE COLLECTION POINTS

CALTRANS - HAYWARD
MAINTENANCE STATION
21195 CENTER STREET
CASTRO VALLEY, CALIFORNIA

TETRA TECH, INC.
PASADENA, CALIFORNIA

FIGURE 6 Cross-Section
Perimeter Sample Locations

TETRA TECH BORING LOG

BORING I.D. NO. VW-1

(4)

CLIENT OSA T.C. 8380-10 LOCATION Hayward Maint. Yard DATE 9/28/92

DRILL METHOD Hollow Stem Auger AUGER DIAMETER 10 inches FIELD GEOLOGIST Phil Skorge

DEPTH (feet)	BLOW COUNT	OVA (ppm)	SAMPLE	GRAPHIC COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					ML	ASPHALT.	
5						SILT WITH GRAVEL - VERY DARK GREY (2.5YN3), NON-PLASTIC FINES, 10% FINE GRAVEL, STIFF, MOIST.	
10							
15					GW	SANDY GRAVEL WITH CLAY - LIGHT YELLOWISH BROWN (10YR6/4), 10% LOW-PLASTICITY FINES, 40% SAND, DENSE, MOIST.	
20	10 12 16						
25	20 50 for 6"					@25': VERY DENSE.	
30	10 20 50 for 5"						
35	15 12 26					SILTSTONE - DARK BROWN (7.5YR3/3), MOIST BEDROCK.	
40						TOTAL DEPTH = 36', CONVERTED BORING INTO VADOSE MONITORING WELL, NO GROUNDWATER OR ODORS ENCOUNTERED.	

REVIEWING GEOLOGIST Don Indermill SIGNATURE Don Indermill REG. NO. 5102

TETRA TECH BORING LOG

BORING I.D. NO. VW-2

CLIENT OSA T.C. 8380-10 LOCATION Hayward Maint. Yard DATE 9/28/92

DRILL METHOD Hollow Stem Auger AUGER DIAMETER 10 inches FIELD GEOLOGIST Phil Skorge

DEPTH (feet)	BLOW COUNT	OVA (ppm)	SAMPLE	GRAPHIC COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					ML	ASPHALT.	
5						SILT WITH GRAVEL - VERY DARK GREY (2.5YN3), NON-PLASTIC FINES, 10% FINE GRAVEL, STIFF, MOIST.	
10							
15					GW	SANDY GRAVEL WITH CLAY - LIGHT YELLOWISH BROWN (10YR6/4), 10% LOW-PLASTICITY FINES, 20% SAND, DENSE, MOIST.	
20	10 17 33						
25	7 25 35						
30	13 50 for 6"					@30': VERY DENSE.	
						SILTSTONE - DARK BROWN (7.5YR3/3), MOIST BEDROCK.	
35	50 for 6"					TOTAL DEPTH = 35', CONVERTED BORING INTO VADOSE MONITORING WELL, NO GROUNDWATER OR ODORS ENCOUNTERED.	
40							

REVIEWING GEOLOGIST Don Indermill SIGNATURE Don Indermill REG. NO. 5102

TETRA TECH BORING LOG

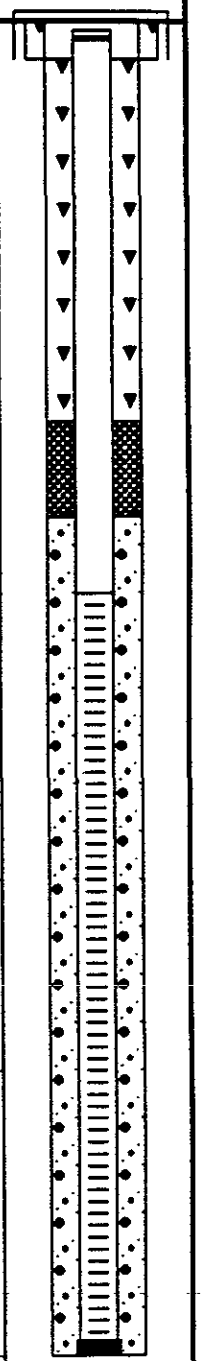
BORING I.D. NO. VW-3

CLIENT OSA T.C. 8380-10 LOCATION Hayward Maint. Yard DATE 9/28/92

DRILL METHOD Hollow Stem Auger AUGER DIAMETER 10 inches FIELD GEOLOGIST Phil Skorge

DEPTH (feet)	BLOW COUNT	OVA (ppm)	SAMPLE	GRAPHIC COLUMN	USCS	GEOLOGIC DESCRIPTION
					ML	ASPHALT.
5						SILT WITH GRAVEL - VERY DARK GREY (2.5YN3), NON-PLASTIC FINES, 10% FINE GRAVEL, STIFF, MOIST.
10						
15					GW	SANDY GRAVEL WITH SILT - LIGHT YELLOWISH BROWN (10YR6/4), 10% NON-PLASTICITY FINES, 30% SAND, VERY DENSE, MOIST.
20	25 30					
25	30 50				SW	GRAVELLY SAND - VERY DARK GREYISH BROWN (10YR3/2), TRACE FINES, POORLY SORTED, FINE TO COARSE SAND, 30% FINE GRAVEL, VERY DENSE, MOIST TO DAMP.
30	20 50					SILTSTONE - YELLOWISH BROWN (7.5YRN3), MOIST BEDROCK.
35	50 for 6"					TOTAL DEPTH = 35', CONVERTED BORING INTO VADOSE MONITORING WELL, NO GROUNDWATER OR ODORS ENCOUNTERED.
40						

WELL DESIGN



REVIEWING GEOLOGIST Don Indermill SIGNATURE Don Indermill REG. NO. 5102

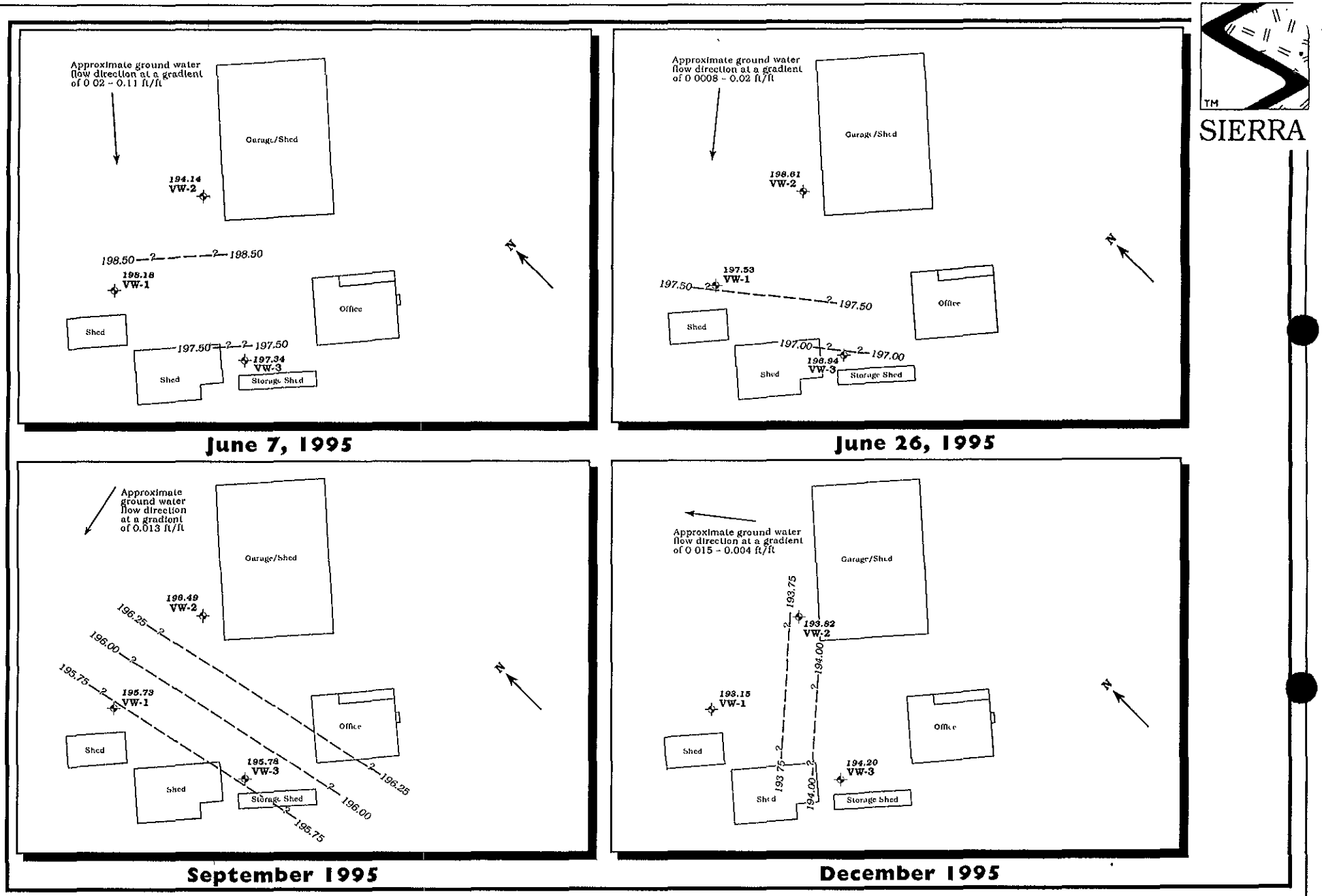


Figure 2. Ground Water Elevation Contour Maps – June 7, 1995, June 26, 1995, September 15, 1995 and December 18, 1995 – Caltrans Maintenance Facility, 21175 Center Street, Castro Valley, California

MR-904-06 [GW cont. maps] 6/17/96

Table 2. Analytic Results for Ground Water - Caltrans Maintenance Station, 21195 Center Street, Castro Valley, California

Well ID	Date Sampled	Analytic Method	TPPH(G)	TPH(D)	B	T	E	X
			<----------ppb---------->					
VW-1	10/28/94	8015/8020	<50	<500	<0.5	<0.5	<0.5	<0.5
	6/7/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	9/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	12/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	3/12/96	**8015/8020**	**<50**	**<50**	**1.9**	**3.1**	**1.3**	**6.9**
VW-2	10/28/94	8015/8020	<50	<500	<0.5	<0.5	<0.5	<0.5
	6/7/95	8015/8020	<50	---*	<0.5	<0.5	<0.5	<0.5
	6/28/95	8015/8020	---	1.4**	---	---	---	---
	9/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	12/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	3/12/96	**8015/8020**	**<50**	**<50**	**<0.5**	**0.9**	**<0.5**	**2.6**
VW-3	10/28/94	8015/8020	<50	<500	<0.5	<0.5	<0.5	<0.5
	6/7/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	9/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	12/18/95	8015/8020	<50	<50	<0.5	<0.5	<0.5	<0.5
	3/12/96	**8015/8020**	**<50**	**<50**	**0.53**	**1.3**	**0.76**	**4.0**
TB	6/7/95	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5
	9/18/95	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5
	12/18/95	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5
	3/12/96	**8015/8020**	**<50**	---	**<0.5**	**<0.5**	**<0.5**	**<0.5**
BB								
	9/18/95	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5
	12/18/95	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5
	3/12/96	**8015/8020**	---	---	---	---	---	---

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
TPH(D) = Total Petroleum Hydrocarbons as Diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ppb = Parts per billion
--- = Not analyzed/not applicable

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8015 = Modified EPA Method 8015 for TPH(D)
8020 = EPA Method 8020 for BTEX

ANALYTIC LABORATORY:

Samples prior to September 19, 1995 were analyzed by Applied P & CH Laboratory of Chino, California.
Samples analyzed after September 19, 1995were analyzed by Chromalab Environmental Services of Pleasanton, California.

NOTE:

* Sample Bottle was broken upon receipt.
** Motor oil with a small amount of diesel.

SIERRA

Table 1. Water Level Data and Well Construction Details - Caltrans Maintenance Station, 21195 Center Street, Castro Valley, California

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						<----------*feet below grade*---------->		
VW-1	10/28/94	32.25		[1]	0			
	6/7/95	26.07			0	20.35[3]	22	3
	→ 6/28/95	26.72			0			
			224.25[2]					
	9/15/95	28.52		195.73				
	12/18/95	31.10		193.15	0			
	3/12/96	**26.81**		**197.44**	**0**			
VW-2	10/28/94	31.64			0			
	6/7/95	25.78			0	20.35	22	3
	6/28/95	26.31			0			
			224.92[1]					
	9/15/95	28.43		196.49				
	12/18/95	31.10		193.82	0			
	3/12/96	**26.44**		**198.48**	**0**			
VW-3	10/28/95	28.74			0			
	6/7/95	26.76			0	20.35	22	3
	6/28/95	27.16			0			
			224.10[1]					
	9/15/95	28.32		195.78				
	12/18/95	29.90		194.20	0			
	3/12/96	**27.45**		**196.65**	**0**			
UNKNOWN	2/28/95	27.20			0			
			224.57[1]					

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
--- = Not available

NOTES (continued):

1 Monitoring wells were not survey yet.

2 All top of casing elevations were surveyed by Ron Miller, Professional Engineer #15816 on July 28, 1995.

3 All well completion data obtained from Tetra Tech, Inc., 1992, Hayward Maintence Station, Remediation of Soil Contamination and Dry Well Installation, 11-1-92.