

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

StId 646

May 30, 1996

Attn: Robert Bosold
Eden Hospital
20103 Lake Chabot Rd
Castro Valley CA 94546

Subject: Well destruction at 20103 Lake Chabot Rd., Castro Valley CA

Dear Mr. Bosold:

The Alameda County Department of Environmental Health, Environmental Protection Division and the San Francisco Regional Water Quality Control Board have reviewed the case closure summary for the above referenced site and concur that no further action related to the release from the former underground storage tank is required at this time.

Please be advised that if there are no plans to continue groundwater monitoring, the two groundwater monitoring wells (MW-1 and MW-2) at the site must be properly decommissioned before our agency will issue the **Remedial Action Completion Certification** (closure letter). A report must be submitted to this office documenting the abandonment of the monitoring wells or a letter stating your intentions to continue groundwater monitoring at the site.

Well destruction permits may be obtained from Alameda County Flood Control and Water Conservation, Zone 7. Their telephone number is (510)484-2600. Additionally, you will need to notify this office 72 hours in advance of the well abandonment field activities.

Please call me at (510)567-6755 if you have questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Amy Leech', written in black ink.

Amy Leech
Hazardous Materials Specialist

c: Robert Kitay, Aqua Science Engineers, Inc., 2411 Old Crow Canyon Rd. #4, San Ramon CA 94583
Kevin Graves, RWQCB
Gordon Coleman - File(ALL)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510)567-6700 FAX (510)337-9335 cc:458

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 646 - 20103 Lake Chabot Road, Castro Valley, CA

July 2, 1996

Mr. Robert Bosold
Eden Hospital
20103 Lake Chabot Road
Castro Valley, CA 94546

Dear Mr. Bosold:

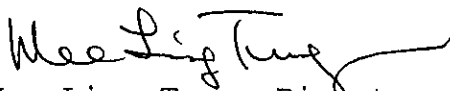
This letter confirms the completion of site investigation and remedial action for the four former underground storage tanks (2-3K and 2-10K gallon diesel tanks) removed from the above site on October 17, 1991 and October 21, 1994. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, 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, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. If changes in land use, structural configuration, or site activities are proposed such that more conservative exposure scenarios should be evaluated, the owner must promptly notify this agency.

Please contact Ms. Amy Leech at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,


Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
✓files (edenhosp.1)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program
Page 1 of 4

MAY 06 1996

QUALITY CONTROL BOARD

I. AGENCY INFORMATION

Agency name: **Alameda County-HazMat**
Date:City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Amy Leech**

Date: **April 1, 1996**
Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Eden Hospital Medical Center**
Site facility address: **20103 Lake Chabot Rd., Castro Valley, CA 94546**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **646**
URF filing date: **06/03/91** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Address:</u>	<u>Phone Numbers:</u>
Attn: Robert Bosold Eden Hospital	20103 Lake Chabot Rd. Castro Valley, CA 94546	(510)889-5059

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	3,000	Diesel	removed	10/17/91
2	10,000	"	"	10/21/94
3	10,000	"	"	"
4	3,000	"	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Possibly corrosion**

Site characterization complete? **Yes**
Date approved by oversight agency: **03/28/96**

Monitoring Wells installed? **Yes** Number: **2**

Proper screened interval? **MW-1 (10-25')
MW-2 (5-20')**

Highest GW depth below ground surface: **7.71 ft** Lowest depth: **10.85 ft (MW-2)**

Flow direction: **Assumed to be south or west.**

Most sensitive current use: **Hospital**

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): **Not Known**

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

96 MAY 28 PM 3:03
ENVIRONMENTAL PROTECTION

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

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tanks	1 - 3,000 gal UST	H&H Ship Service 220 China Basin St., San Francisco	10/17/91
	2-10,000 gal UST	Erickson	10/21/94
	1- 3,000 gal UST	255 Parr Blvd., Richmond, CA	
Product/	325 gal	Alviso Independent Oil Fac. Alviso, CA	10/21/94
Rinsate	450 gal	Evergreen Oil, Newark, CA	10/17/91
Soil	241 c.y.	BFI, 1601 Dixon Landing Rd. Milpitas (no manifests on file)	12/27/91
	263.11 tons	BFI, Livermore	12/1/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gasoline)	NA	NA	NA	NA
TPH (Diesel)	25	1,500	2,500	900
Benzene	ND	0.0068	ND	ND
Toluene	ND	0.450	ND	ND
Ethylbenzene	0.011	0.390	ND	ND
Xylene	0.180	4.4	ND	ND
MTBE	NA	NA	NA	ND

- 1 Before soil sample collected from Area A after a 3,000 gallon UST was removed in 1991.
- 2 After soil sample collected from Area A subsequent to overexcavation of this area in 1991.
- 3 Before water sample collected from monitoring well MW-1 on 03/08/95.
- 4 After water sample collected from monitoring well MW-1 on 12/04/95.

Comments (Depth of Remediation, etc.):

See comments under 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**
 Number Decommissioned: **Pending case closure concurrence.** Number Retained: **2**

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

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Amy Leech

Title: Hazardous Materials Specialist

Signature: 

Date: 5-2-96

Reviewed by

Name: Scott Seery

Title: Senior Hazardous Materials Specialist

Signature: 

Date: 5-2-96

Name: Thomas Peacock

Title: Supervising, Hazardous Materials Specialist

Signature: 


Date: 5-1-96

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: 

RWQCB Staff Name: Kevin Graves, P.E.

Signature: 

Title: Assoc. Water Resources Control Engineer

Date: 5/23/96

VII. ADDITIONAL COMMENTS

Four USTs were removed from Eden Valley Medical Center located at 20103 Lake Chabot Road in Castro Valley, California. Three of the USTs (two 10,000-gallon diesel USTs and one 3,000-gallon diesel UST) were located in a common pit, referred to as Area A for the remainder of this text, located at the southwest end of the hospital adjacent to the generator building. The other UST (one 3,000-gallon diesel UST) was located near the southeast end of the hospital, referred to as Area B. See attachment 1 for site location and site layout.

On October 17, 1991, one 3,000-gallon diesel UST was removed from Area A. This UST reportedly had significant pitting and through going holes along its top, in addition, staining and odors were noted within the tank pit. The tank pit in Area A was underlain by a concrete hold down pad located at approximately 16 ft bgs. Initial soil samples collected in Area A adjacent to the former 3,000-gallon UST identified up to 25 ppm TPHd at 12 ft bgs and trace amounts of EX. Because visible soil contamination was observed and stockpiled soil with elevated levels of TPHd had been returned to the tank pit in Area A, overexcavation was completed in December 1991. 241 c.y. of soil was removed. Confirmatory sidewall sampling identified up to 1,500 ppm TPHd and low levels of BTEX remaining in place along the base of the north sidewall, below the generator room foundation. See attachment 2 for results.

In October 1994, the three remaining USTs (the remaining two 10,000-gallon diesel USTs located in Area A and a 3,000-gallon diesel UST located in Area B) were removed from the site. Soil samples collected from both tank pits were unremarkable. Although no further investigations were deemed necessary for Area B, a groundwater investigation was required in Area A. See attachment 3 for results.

In March 1995, two soil borings BH-A and BH-B were advanced and converted into monitoring wells MW-1 and MW-2, respectively, in the assumed downgradient direction of Area A. Based on the observed surface topography in the area, groundwater was assumed to flow toward the south or west, with the boring locations chosen accordingly. Two soil samples were collected from each boring. Groundwater was first encountered from 11.5 to 16.5 ft bgs and stabilized to approximately 7.7 ft bgs. See attachment 4 for soil results and attachment 5 for boring/construction logs.

Groundwater was sampled quarterly (four times) from 3/95 to 12/95. Elevated levels of TPHd have been detected in each well. The maximum concentration of TPHd was detected in monitoring well MW-1 at 2,500 ppb while no detectable concentrations of BTEX have ever been detected in MW-1 or MW-2. See attachment 4 for historical groundwater results.

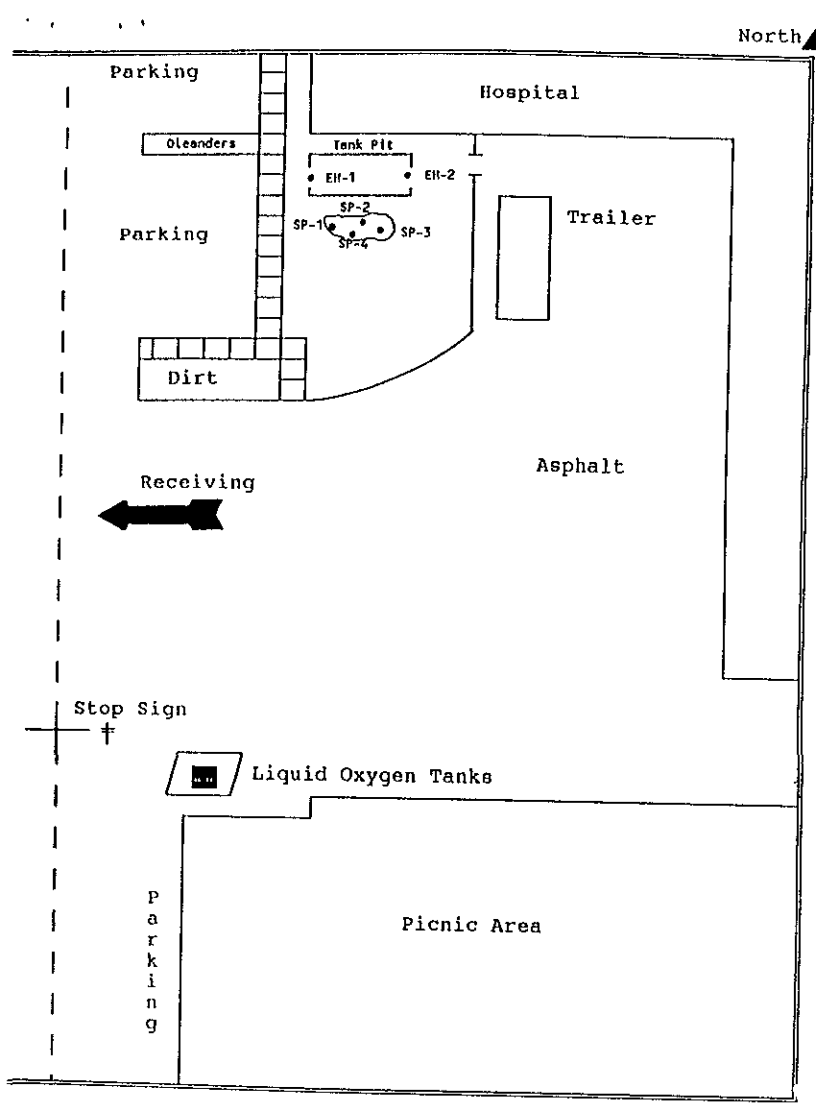
VII. ADDITIONAL COMMENTS (cont'd)

Analyses for naphthalene or benzo(a)pyrene was not completed for soil or groundwater. However, based on the expected maximum concentrations of TPHd that remain in soil (1,500 ppm TPHd) and groundwater (2,500 ppb TPHd) at the site, the expected maximum concentrations of naphthalene in soil is 1.95 ppm and 3.23 ppb in groundwater. These concentrations are well below the Tier 1 RBSL/ASTM 1739-95 for chronic exposure pathways. The expected risk levels at this site are likewise not exceeded for benzo(a)pyrene.¹

The residual contaminants that remain in soil and groundwater in Area A do not appear to pose a risk to human health. Due to the relatively high molecular weight of the contaminants found (i.e., TPHd with no BTEX), it can be assumed that the dissolved plume is stable and will not significantly migrate. Groundwater at this site is not used for drinking water and there are no known drinking water wells, surface waters, or other sensitive receptors in the immediate area that are likely to be impacted. No further investigations are recommended at this site.

¹ Expected concentration of naphthalene is 0.13% and benzo(a)pyrene is 0.07 mg/kg in diesel. *The Luft Field Manual, 1989.*

2



Scale: 1 inch = 30 feet

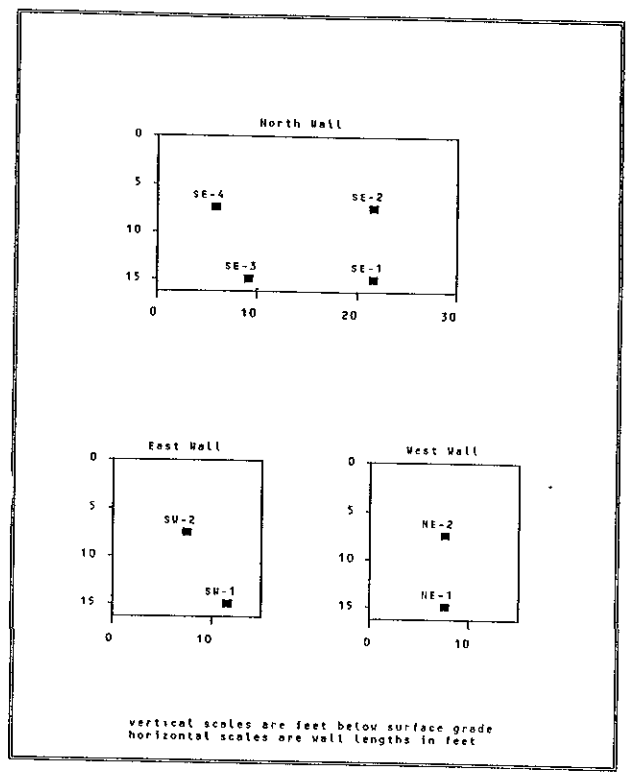
SOIL SAMPLING LOCATION MAP

FIGURE 4

Sample Number	TPHD (ppm)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
EH-1	ND	ND	ND	ND	ND
EH-2	25	ND	ND	11	180
SP-1, 2, 3, 4*	220	ND	ND	ND	11
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	3550/8015	8020	8020	8020	8020

ppm = parts per million (ug/kg)
 ppb = parts per billion (ug/kg)
 ND = Not Detected

Table 1 Analytical Results (TPHD & BTEX)



Scale: 1 inch = 10 feet

Figure 3: SAMPLING LOCATION MAP

All Locations and Dimensions are Approximate

Sample Number	TPHD (ppm)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
West Wall					
NE-1	ND	ND	ND	ND	9.7
NE-2	ND	ND	ND	ND	ND
East Wall					
SW-1	200	ND	ND	ND	11
SW-2	22	ND	5.9	ND	50
North Wall					
SE-1	1500	6.8	450	390	4400
SE-2	630	ND	ND	12	280
SE-3	ND	ND	ND	ND	ND
SE-4	ND	ND	ND	ND	ND
Stockpile					
SP-1,2	820	ND	32	38	320
SP-3,4	330	ND	7.4	28	210
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	3550/8015	8020	8020	8020	8020

ppm = parts per million (ug/kg)
 ppb = parts per billion (ug/kg)
 ND = Not Detected

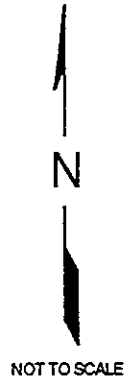
Table 1: Analytical Results (TPHD & BTEX)

2

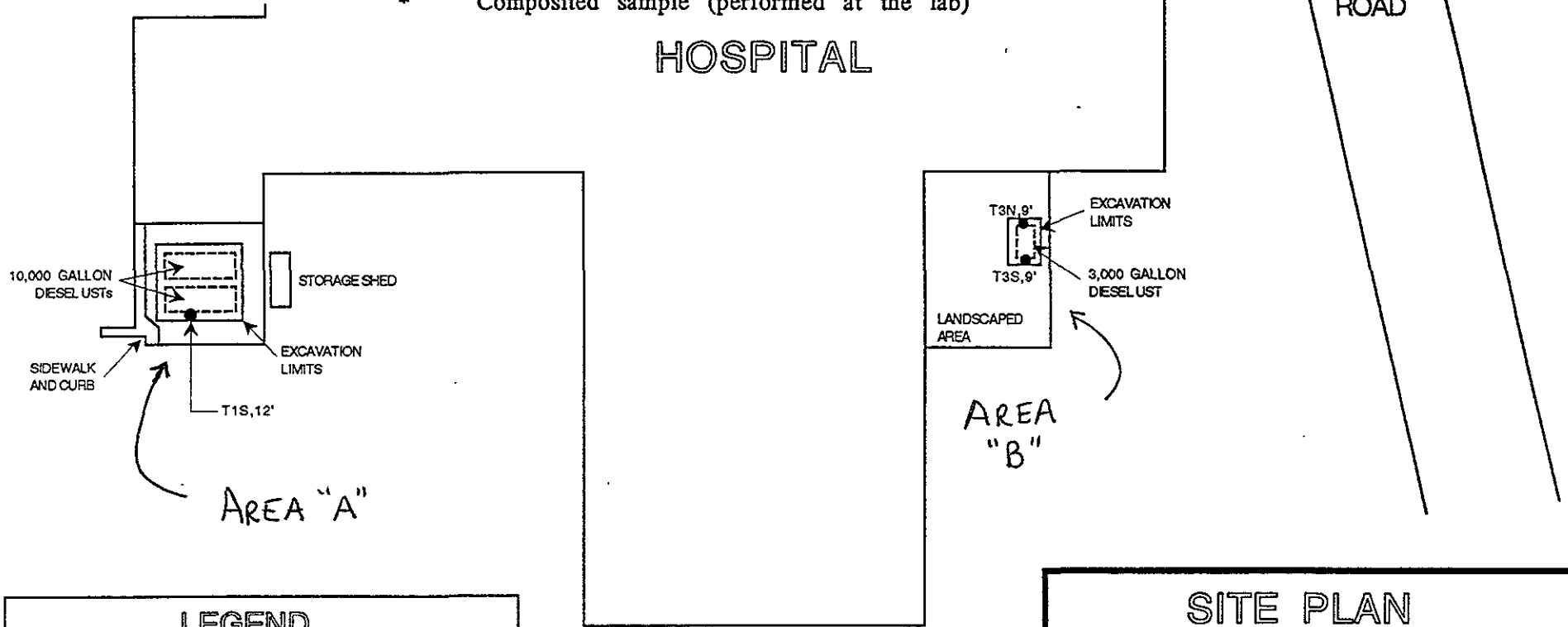
TABLE ONE
SOIL SAMPLE RESULTS
All Results in Parts Per Million

Sample ID.	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes
2x 10,000 gal - T1S, 12'	15	<0.005	<0.005	<0.005	<0.005
3,000 gal } T3S, 9'	<10	<0.005	<0.005	<0.005	<0.005
	32	<0.005	<0.005	<0.005	<0.005
STKP-So.*	72	<0.005	<0.005	<0.005	<0.02
STKP-No.*	79	<0.005	<0.005	<0.005	<0.02
EPA MTD.	3550	8020	8020	8020	8020

* Composited sample (performed at the lab)



NOT TO SCALE



LEGEND	
T3N, 9'	SOIL SAMPLE LOCATION
●	
---	FORMER DIESEL UST

SITE PLAN	
Eden Medical Center 20103 Lake Chabot Road Castro Valley, California	
Aqua Science Engineers	Figure 2

(3)

4

TABLE ONE
Summary of Chemical Analysis of SOIL Samples
 All results are in parts per million
Sample Date 3/3/95

Boring	Depth BGS	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes
BH-A	11.0'	<1	<0.005	<0.005	<0.005	<0.005
	16.0'	150	<0.005	<0.005	<0.005	<0.005
BH-B	10.0'	<1	<0.005	<0.005	<0.005	<0.005
	16.0'	<1	<0.005	<0.005	<0.005	0.006
EPA METHOD		3510/ 8015	8020	8020	8020	8020

TABLE ONE
Summary of Chemical Analysis of GROUNDWATER Samples
 All Results are in parts per billion

Well I.D.	Date of Sampling	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DTW
MW-1	03-08-95	2,500	<0.5	<0.5	<0.5	2	---	7.71
	06-05-95	1,400	<0.5	<0.5	<0.5	2	---	10.01
	09-13-95	980	<0.5	<0.5	<0.5	2	---	10.33
	12-04-95	900	<0.5	<0.5	<0.5	2	<50	10.82
MW-2	03-08-95	300	<0.5	<0.5	<0.5	2	---	7.74
	06-05-95	50	<0.5	<0.5	<0.5	2	---	7.88
	09-13-95	100	<0.5	<0.5	<0.5	2	---	9.62
	12-04-95	<50	<0.5	<0.5	<0.5	2	<50	10.85
EPA METHOD		3510/ 8015	8020	8020	8020	8020	8020	

SIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS Boring BH-A/Well MW-1

Project Name: Eden Hospital Project Location: 20103 Lake Chabot Rd., Castro Valley, CA Page 1 of 1
 Driller: Solis Exploration Services Type of Rig: F-10 Type and Size of Auger: 8-inch O.D. Hollow-stem.
 Logged By: Robert E. Kitay Date Drilled: March 2, 1995 Checked By: David M. Schultz, P.E.

WELL AND WELL DATA

Total Depth of Well Completed: 25.0'
 Depth of Water First Encountered: 16.5'
 Well Screen Type and Diameter: 2" Diameter Schedule 40 PVC
 Depth of Water in Well: 7.71'
 Well Screen Slot Size: 0.020"
 Total Depth of Boring: 26.5'
 Type and Size of Soil Sampler: 2" I.D., Calif. Split-barrel

SOIL/ROCK SAMPLE DATA

WELLABORING DETAIL	Description	Interval	Blow Ct.	OVM (ppmv)	Graphic Log	Depth in Feet	DESCRIPTION OF LITHOLOGY
	Street Box Locking Well Cap					0	Asphaltic Concrete
	2" ID Blank Sch 40 PVC Bentonite Seal	7-8	13	0		0-5	Gravelly SAND (SW); black; medium dense; damp; 75% fine to medium sand; 15% subangular to subround pebbles to 0.25" diameter; 10% silt, high estimated K, no odor
	Class "H" Portland Cement	14-15	46	0		5-10	Clayey SILT (ML); yellow brown; stiff; damp; 85% silt; 15% clay; moderate plasticity; low estimated K; no odor
	2" ID Blank Sch 40 PVC Well Screen	11-12	18	9.8		10-15	Silty SAND (SM); yellow brown mottled olive; moist, medium dense; 65-70% fine to medium sand, 25% silt; 5-10% clay; slight plasticity; medium estimated K; slight hydrocarbon odor; wet at 16.5'
	No. 3 Washed Monterey Sand	13-15	27	0		15-20	SILT (ML); yellow brown; dense; 100% silt, non-plastic; low estimated K; no odor
	2" I.D. 0.020" Slotted PVC Well Screen	17-18	40	0		20-25	Silty CLAY (CH); yellow brown; stiff; dry, 80% clay; 20% silt; high plasticity, very low estimated K, no odor
						25	End of boring at 26.5'

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS Boring BH-B/Well MW-

Project Name: Eden Hospital Project Location: 20103 Lake Chabot Rd., Castro Valley, CA Page 1 of 1
 Driller: Solis Exploration Services Type of Rig: F-10 Type and Size of Auger: 8-inch O.D. Hollow-stem.
 Logged By: Robert E. Kitay Date Drilled: March 3, 1995 Checked By: David M. Schultz, P.E.

WATER AND WELL DATA

Total Depth of Well Completed: 20.0'
 Depth of Water First Encountered: 11.5'
 Well Screen Type and Diameter: 2" Diameter Schedule 40 PVC
 Static Depth of Water in Well: 7.74'
 Well Screen Slot Size: 0.020"
 Total Depth of Boring: 21.5'
 Type and Size of Soil Sampler: 2" I.D., Calif. Split-barrel

SOIL/ROCK SAMPLE DATA

WELLABORING DETAIL	Description	Interval	Blow Ct.	OVM (ppmv)	Graphic Log	Depth in Feet	DESCRIPTION OF LITHOLOGY
	Street Box Locking Well Cap					0	Asphaltic Concrete
	2" ID Blank Sch 40 PVC Bentonite Seal	6-7	8	0		0-5	Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 15% clay; moderate plasticity, low estimated K; no odor
	Class "H" Portland Cement	11-12	24	0		5-10	Sandy SILT (ML); yellow brown; stiff, damp; 60% silt; 35% fine sand, 5% clay; low plasticity, medium estimated K; no odor
	2" ID Blank Sch 40 PVC Well Screen	11-12	15	9.8		10-15	Clayey SILT (ML), yellow brown; stiff, moist; 70% silt; 30% clay; moderate plasticity; very low estimated K; no odor
	No. 3 Washed Monterey Sand	14-15	28	0		15-20	yellow brown mottled olive; wet; 60% silt; 30% clay; 10% fine to medium sand, slight hydrocarbon odor at 15'
	2" I.D. 0.020" Slotted PVC Well Screen					20	yellow brown; 75% silt; 25% clay; no odor at 20'
						21.5	End of boring at 21.5'

5



SITE LOCATION MAP

Eden Medical Center
 20103 Lake Chabot Road
 Castro Valley, California

Aqua Science Engineers

Figure 1

BASE: Hayward, CA 7.5 minute quadrangle topographic map,
 dated 1980, scale 1:24,000.

