

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

ARNOLD PERKINS, DIRECTOR
RAFAT A. SHAHID, DEPUTY DIRECTOR

December 22, 1995

STID 2428

Alameda County CC4580
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. John C. Whalen
560 Gerard Court
Pleasanton, CA 94566

RE: WHALEN CONSTRUCTION COMPANY, INC., 4227 PLEASANTON AVENUE,
PLEASANTON

Dear Mr. Whalen:

This letter confirms the completion of site investigation and remedial action for the six (6) underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including 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 storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If a change in land use is proposed, the owner must promptly notify this agency.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,

Jun Makishima
Acting Director of Environmental Services

cc: Gordon Coleman, Acting Chief, Env. Protection Division
Kevin Graves, RWQCB
Mike Harper, SWRCB
William Halvorsen, Pleasanton Fire Department
Thomas Merschel, New Cities Development Group
9781 Blue Larkspur Ln., Monterey, CA 93940

DEC 15 1995

QUALITY CONTROL BOARD

- SIGNED
COPY -

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 12/06/95

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250
 City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
 Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

II. CASE INFORMATION

Site facility name: Whalen Construction Co., Inc.
 Site facility address: 4227 Pleasanton Avenue, Pleasanton 94566
 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2428
 URF filing date: 5/8/89 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
John C. Whalen	560 Gerard Ct.	510/484-0330
Lenore D. Whalen	Pleasanton, CA 94566	(Whalen Constr.)
Deetz Construction Co.	4227 Pleasanton Ave.	
	Pleasanton, CA 94566	

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	500 gal.	gasoline	removed	8/09/85
2	1000 "	diesel/pesticide	"	"
3	2000 "	gasoline	"	8/02/89
4	500 "	diesel	"	2/23/90
5	1000 "	"	"	7/05/94
6	500 "	gasoline	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: 2000 gal. UST - spillage/leak around dispenser;
 (possible) over filling

Site characterization complete? YES

Date approved by oversight agency: 12/05/95

Monitoring Wells installed? NO Number: NA

Proper screened interval? NA

Highest GW depth below ground surface: UNK Lowest depth: UNK

Flow direction: UNK - presumably towards Arroyo del Valle

Most sensitive current use: (planned) residential

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Are drinking water wells affected? NO Aquifer name: Amador Subbasin

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 filed? Alameda County
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	500 / 1000 gallon	UNK	1985
	2000 "	<u>Disposal</u> - Erickson	8/02/89
	500 "	<u>Disposal</u> - Erickson	2/23/90
	500 / 1000 "	<u>Disposal</u> - Erickson Richmond, CA	7/05/95
Piping	UNK		
Free Product	NA		
Soil	~900 tons	<u>Disposal</u> - ECDC L.F. East Carbon, Utah	10/20/95 - 10/23/95
	~1200 yds ³	<u>Disposal</u> - BFI L.F. Livermore, CA	1989 (?)
Groundwater	NA		
Barrels	NA		

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)	8.5 ¹	ND ⁵	NA	ND
TPH (Diesel)	ND	NA	"	NA
TPH (motor oil)	80 ²	"	"	"
TRPH (418.1)	20 ³	ND	"	ND
Benzene	ND	"	"	"
Toluene	"	"	"	"
Xylene	"	"	"	"
Ethylbenzene	"	"	"	"
Heavy metals	[See: Note 4]		"	NA
Other:	NA	NA	"	"

- Note:
- 1) "Before" soil TPH-G result from sample P5 collected below a 500 gallon gasoline UST at the former Alameda County Mosquito Abatement District compound during its 1985 closure.
 - 2) "Before" soil TPH-mo result from sample 2A collected at 2' depth below dispenser associated with 2000 gallon gasoline UST closed during 1989.

Leaking Underground Fuel Storage Tank Program

- 3) "Before" soil TRPH result from sample 1A collected from 2' below a 500 gallon diesel UST closed during 1990.
- 4) Metals were not sought during UST investigations/closures. Metals were sought, however, during additional investigations occurring elsewhere on-site associated with other, above-ground source areas.
- 5) "After" soil results from soil borings advanced adjacent to restored 2000 gallon gasoline UST pit during July 1994 and November 1995.

Comments (Depth of Remediation, etc.):

A series of UST closures occurred between 1985 and 1994 at various subsites on the subject property during which a reported total of six (6) USTs were removed. Many of the closures are not well documented. A discussion of each follows.

Alameda County Mosquito Abatement District (MAD)

It has been reported that two (2) USTs (500 and 1000 gallon) were removed from the MAD compound by Safety Specialists, Inc. on or around August 9, 1985. The 500 gallon UST reportedly stored gasoline; the other UST was used both for the storage of diesel fuel and/or pesticide at various times. It is reported that the noted pesticide was in the form of one or more larvicide formulations (e.g., Golden Bear 1313, etc.) comprised of petroleum (light naphthenic) distillates. Product in each tank was dispensed from above-ground dispensers located near the center of the MAD subsite.

Samples were reportedly collected below each tank following removal. The two samples collected from below the 1000 gallon diesel/pesticide tank were composited before analysis. Each sample was analyzed for the presence of "total hydrocarbons" using EPA method 8015, only. It is unknown what sample preparation method was used, although the original laboratory report sheet indicates the method was "... calibrated with benzene, toluene, and xylene." Only 8.5 ppm "total hydrocarbons" were identified in sample P5 collected from below the gasoline UST.

(Note: Text of the Safety Specialist sampling report is unclear with respect to additional analyses performed on other samples collected at the MAD site concurrent with the UST sampling effort. Text suggests that so called "deep" samples (P2/P4) were also collected from below the 1000 gallon diesel/pesticide tank and analyzed for the presence of organochlorine pesticides and PCBs using method 8080. However, review of the chain-of-custody form accompanying these samples indicates such did not occur. It appears that the referenced "deep" samples, as well as samples P1/P3, were collected from below a 55-gallon drum or drums, presumably located within a former storage shed at the MAD site. Arochlor 1254 was detected in sample P1/P3.)

Leaking Underground Fuel Storage Tank Program

2000 gallon gasoline UST

A 2000 gallon gasoline UST was removed from the Deetz Construction subsite during August 1989. Following overexcavation of the UST pit, samples (4) were collected from the pit sidewalls (~25' BG) and *composited* prior to analysis. No samples were reportedly collected prior to overexcavation. A single sample was also collected from within a "plumbing excavation." Samples were analyzed for TPH-G/D/mo, only. BTEX were not sought. Up to 80 ppm TPH-mo and 10 ppm TPH-D were detected in sample 2A collected from the plumbing excavation. No TPH-range compounds were detected in the composite sample collected from within the final UST excavation. It is unclear whether ground water (GW) was encountered in the excavation prompting the collection of sidewall (vs. bottom) samples.

The final UST excavation reportedly measured 40 x 40 x 30' deep. It has been reported that the former operator (H.J. Deetz) directed the continuation of excavation activities based on a "musty" odor in the soil encountered below the former UST, not necessarily as a result of any outward indication of a release in the form of gasoline odors, per se, or discoloration. Although supporting documents have not been presented, it is reported that the approximate 1200 yds³ of material excavated from the UST pit were disposed at the BFI landfill in Livermore, CA.

500 gallon diesel UST

During February 1990, a single 500 gallon diesel UST was removed from the former Hutchinson Transfer Service subsite. A single soil sample was collected from the base of the excavation following UST removal and analyzed for the presence of TRPH (418.1). A reported 20 ppm TRPH was detected in this sample. BTEX were not sought. No further excavation followed.

Review of the Uniform Hazardous Waste Manifest which accompanied the UST during transport to Erickson indicates two USTs were actually removed from the site. The property owner (J. Whalen) reports that the second UST may have been one which had been stored at the site above-ground and left behind by Hutchinson. This second tank was presumably transported at the same time as the UST removed during closure.

500 and 1000 gallon USTs

500 gallon gasoline and 1000 gallon diesel USTs were removed from the Valley Excavating subsite during July 1994. The gasoline UST appeared sound at the time of closure. (Apparent) fuel, however, appeared to be leaking from a seam on the bottom of the diesel tank during its removal. Stained soil was immediately excavated to an additional 2-3 feet in depth. It is unclear whether this leak was a consequence of closure activities.

Leaking Underground Fuel Storage Tank Program

Two soil samples were collected from below the gasoline UST (~6' BG) and one from below a former dispenser, each analyzed for the presence of TPH-G, -D and BTEX. All sample results were below laboratory detection limits.

Two samples were also initially collected from below the diesel UST (~6 and 8' BG). The 6' sample (DT-1), collected from the west end of the UST pit, was analyzed for the presence of TPH-G, -D, and BTEX. No target compounds were detected. The 8' sample (DT-2) was analyzed for TPH-D, only. Because detectable (3 ppm) TPH-D was noted in DT-2, a follow-up sample (DT-3) was collected following the removal of an additional four vertical feet of material at the east end of the UST pit. Sample DT-3 was analyzed for the presence of TPH-D and BTEX. All results were below laboratory detection limits.

Excavated material was initially stockpiled on-site and later integrated with other materials excavated from other on-site source areas. This material was eventually transported to an off-site disposal facility located in East Carbon, Utah.

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: NA

Should corrective action be reviewed if land use changes? NO

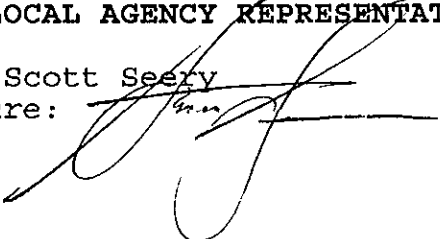
Monitoring wells Decommissioned: NA

Number Decommissioned: NA Number Retained: NA

List enforcement actions taken: NONE

List enforcement actions rescinded: NONE

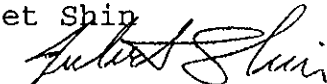
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Sr. Haz Mat Specialist
Signature:  Date: 12-13-95

Leaking Underground Fuel Storage Tank Program

Reviewed by


Name: Juliet Shin

Signature: 

Title: Sr. Haz Mat Specialist

Date: 12/13/95

Name: Amy Leech

Signature: 


Title: Haz Mat Specialist

Date: 12/13/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 12-13-95

RWQCB Staff Name: Kevin Graves

RB Response: 

Title: San. Eng. Assoc.

Date: 12/18/95

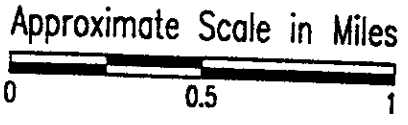
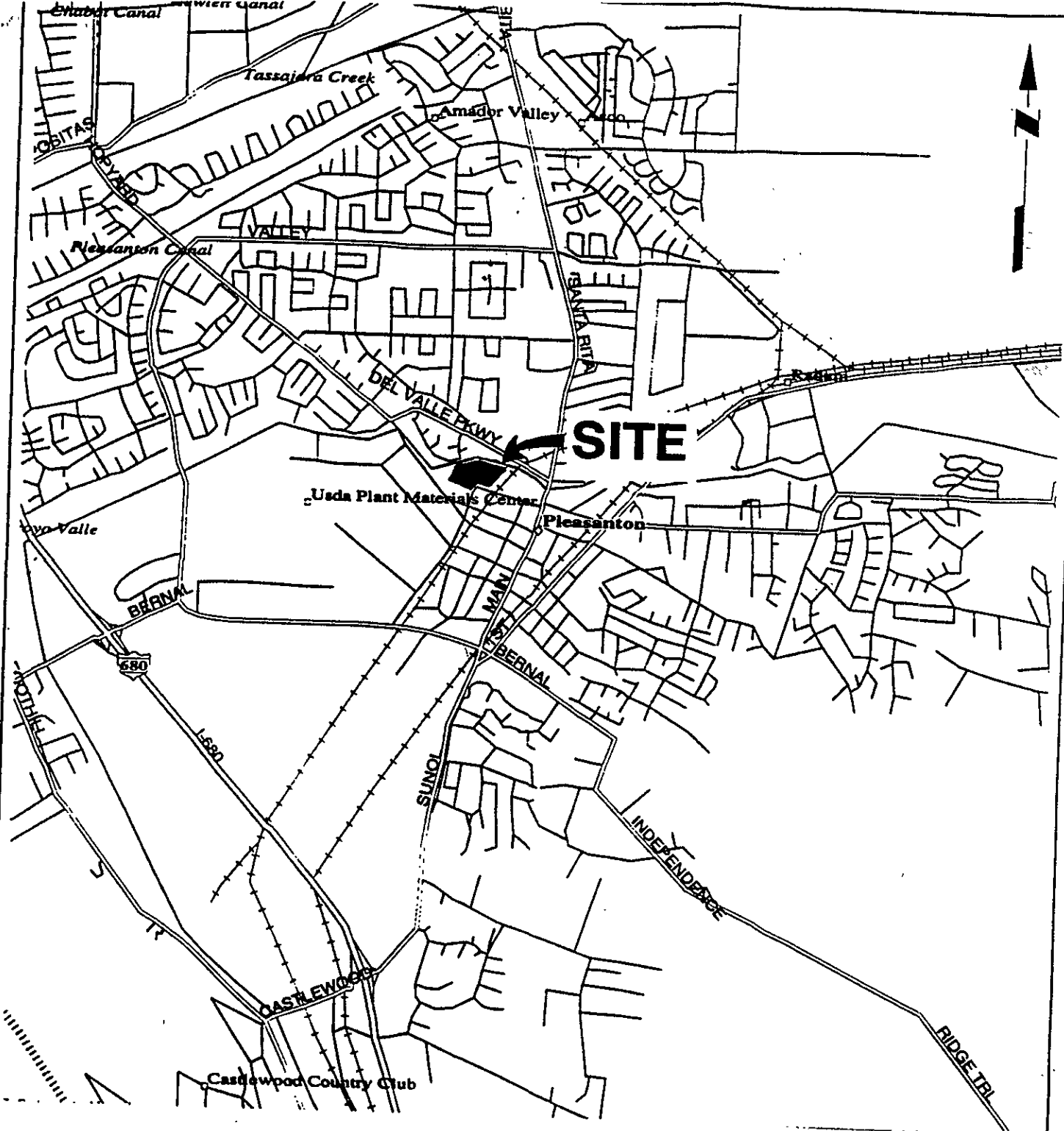
VII. ADDITIONAL COMMENTS, DATA, ETC.

Of the several UST sites on the 7.5 acre subject property, only the 2000 gallon gasoline UST area (Deetz Construction) appeared to warrant further investigation based on available technical and historical information. Subsequent work was performed during both 1994 and 1995 to evaluate the effectiveness of the 1989 overexcavation activities. Concern over the lack of technical oversight by either public agency or environmental consultant in the past lead to these additional assessments. The 1994 study was only one element of a comprehensive site assessment and remediation effort performed at the subject site which focused on several potential and known above-ground source areas (e.g., petroleum tanks, pesticide storage, etc.) in addition to the former UST sites.

A single boring (B-4) was advanced to a reported depth of 35' near the subject UST pit during July 1994. GW was encountered at ~35' BG. Although soil samples were reportedly collected at 5' intervals, only the sample collected near the capillary fringe was analyzed for TRPH (418.1) as no subjective evidence of contamination was reportedly observed during boring advancement. Additionally, a GW sample was collected through the auger at the boring terminus and analyzed for TRPH. No detectable TRPH compounds were detected in the analyzed samples. BTEX were not sought.

In order to corroborate the 1994 results using more widely accepted laboratory test methods, two additional borings (Bx-1 and Bx-2) were advanced just north and west of the restored former UST pit during November 1995. Soil samples were collected at ~11' BG (to approximate the depth of the UST invert) and the capillary fringe (~31' BG) in each boring. GW, encountered at ~33' BG, was sampled from each boring. All samples were analyzed for the presence of TPH-G (method 8015M) and BTEX (8020). No target compounds were detected in any of the samples tested.

Both field and laboratory data appear to indicate that no noteworthy releases from the former USTs at this site have occurred. Consequently, no human health risk as a result of exposure to released product from the former USTs is apparent.



Base Provided By DeLorme Mapping, Dated 1993.

Rev.	Drawn By	Chk'd By	Date
0	D.F.	D.A.	9/12/95

HARZA

SITE VICINITY MAP
 4227 PLEASANTON AVENUE
 Pleasanton, California

11-95-1

Figure	1
Project No.	K806-H

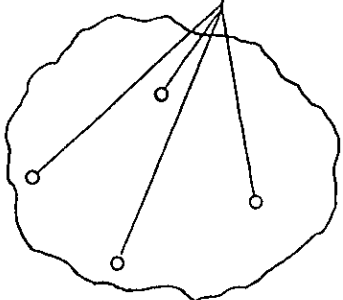
PARKING/HEAVY EQUIPMENT

GARAGE/SHOP



AERATING SOIL FROM EXCAVATION (TOP)

SAMPLE 1A
WALL COMPOSITE
TANK EXCAVATION
40'x40'x30'DEEP

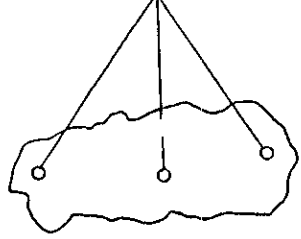


CONST. OFFICE



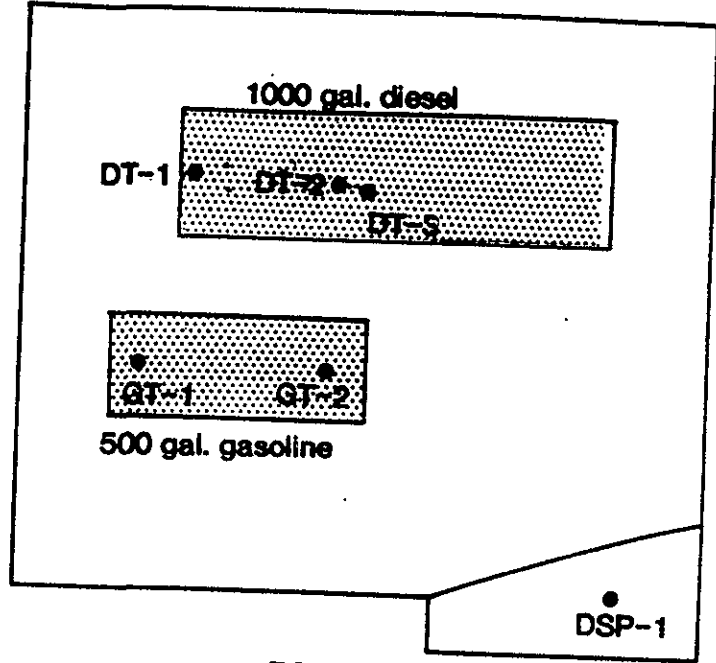
PLUMBING EXCAVATION 3'x3'x2'DEEP
SAMPLE 2A

COMPOSITE
SOIL FROM BOTTOM
OF EXCAVATION
SAMPLE 3A

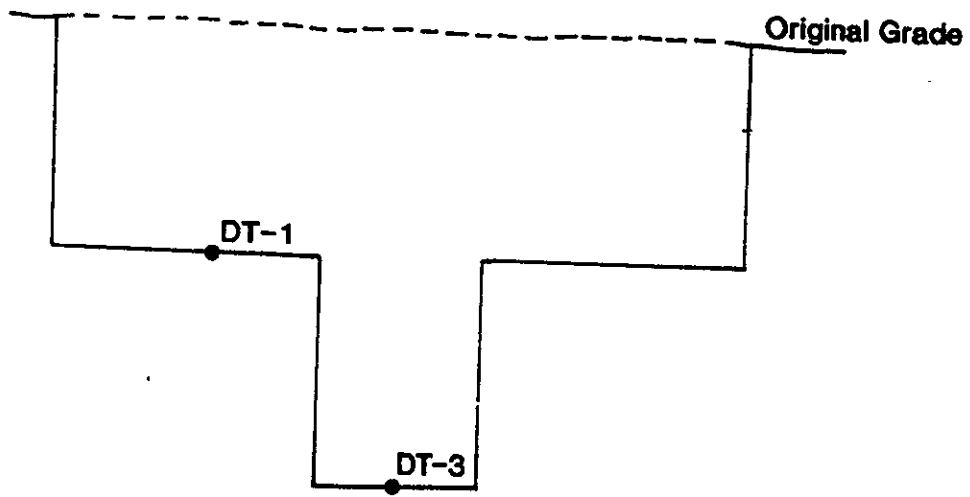


Clayton Environmental Consultants, Inc.		Figure 1
DEETZ CONSTRUCTION (SOIL SAMPLING LOCATIONS) 4227 PLEASANTON AVE PLEASANTON, CALIFORNIA		
1989 closure 2000 gallon UST		

VALLEY
EXCAVATING



PLAN



PROFILE

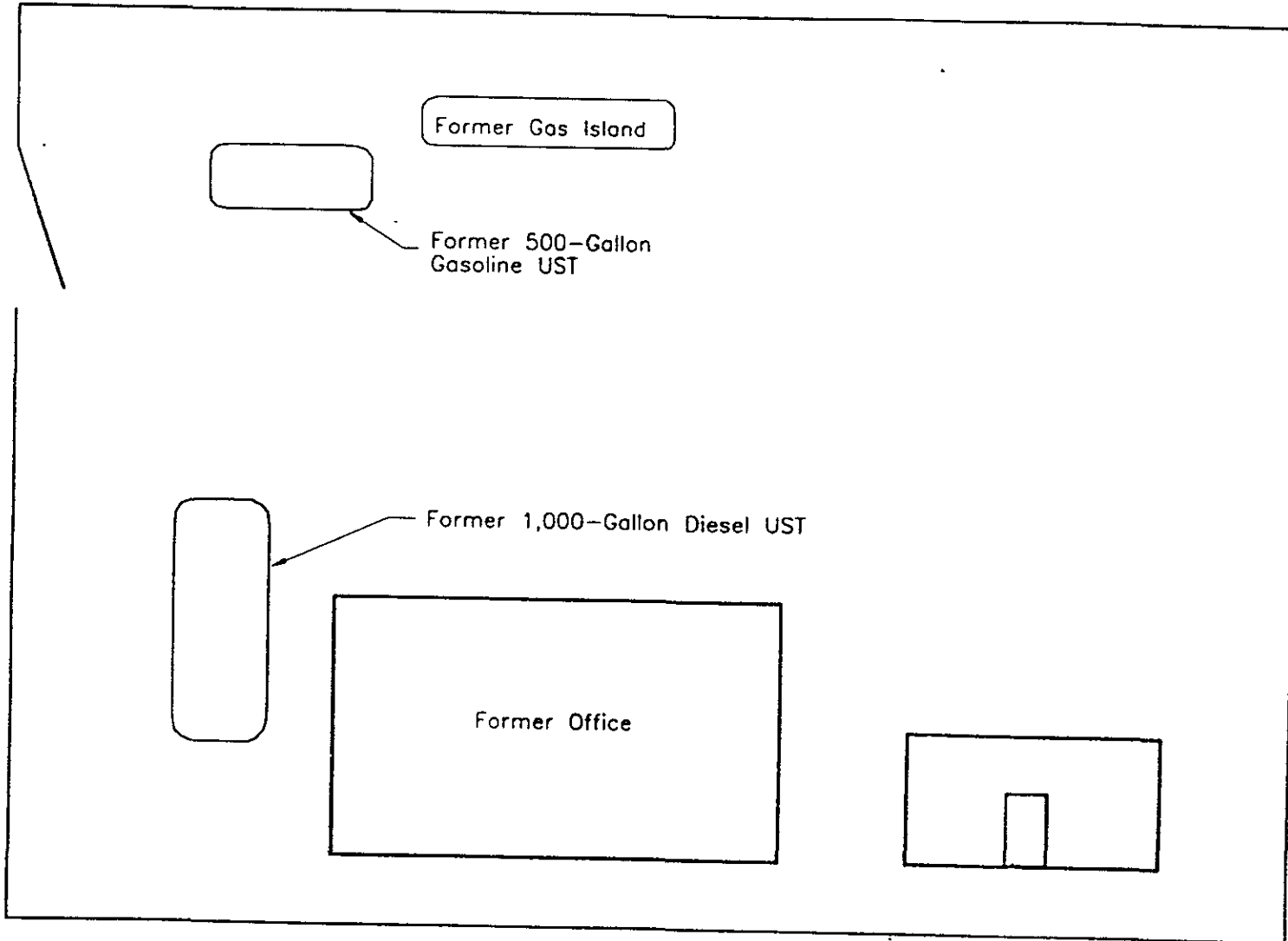
LEGEND

- DT-3 ● Approximate Location of Soil Sample
- ▨ Approximate Location of UST

Approximate Scale in 1"=5'

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Consulting Engineers and Scientists

1994 UST REMOVAL EXCAVATION		
4227 PLEASANTON AVENUE Pleasanton, California		
PROJECT NO.	DATE	Figure 3
K806-M	November 1995	



ek806m7

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Consulting Engineers and Scientists

ACMAD INVESTIGATION		
4227 PLEASANTON AVENUE Pleasanton, California		
PROJECT NO.	DATE	FIGURE NO.
K806-M	November 1995	7

500/1000 gal

TABLE 1
Alameda County Mosquito Abatement District USTs
4227 Pleasanton Avenue, Pleasanton, California

Tank	Sample ID	Date	Depth* (feet)	Analyses (ppm)		
				TPH	Pesticides	PCBs
1,000-Gallon Diesel/Herbicide tank	P1/P3	8/9/85	0.5	<0.05	all ND	3.9
	P2/P4	8/9/85	3	<0.05	all ND	all ND
	P6/P7	8/9/85	0.5	<0.05	--	--
500-Gallon Unleaded Gasoline	P5	8/9/85	0.5	8.5	--	--

not UST samples

NOTES

- *: Depth is presumably relative to the bottom of the tank
- ppm: Parts per million
- TPH: Total petroleum hydrocarbons using EPA Method 8015
- PCBs: Polychlorinated biphenyls using EPA Method 8080
- ND: Not detected at or above method reporting limit
- : Sample not analyzed for this parameter
- Pesticide analysis using EPA Method 8080

2000 gal
DEETZ CONSTRUCTION

TABLE 2
1989 UST Removal

4227 Pleasanton Avenue, Pleasanton, California

Tank	Sample ID	Date	Depth* (feet)	Analyses (ppm)								
				TPH			Benzene	Toluene	Ethylbenzene	Xylenes	TRPH	
Gasoline	Diesel	Oil										
2,000-Gallon 4pt. comp Gasoline dispenser stockpile 1994 boring 1995 borings	Sample 1A	8/28/89	25	<10	<10	<20	--	--	--	--	--	
	Sample 2A	8/28/89	2	<10	10	80	--	--	--	--	--	
	Sample 3A	8/28/89	unknown	<10	<10	60	--	--	--	--	--	
	B-4	7/12/94	35	--	--	--	--	--	--	--	<10	
	BX-1	11/20/95	ground water	11	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	--
				31	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	--
				ground water	<0.05	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
	BX-2	11/20/95	ground water	11	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	--
				31	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	--
	ground water	<0.05	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--		

NOTES

- *: Depth is relative to site grade
- ppm: Parts per million
- TPH: Total petroleum hydrocarbons using EPA Method 8015
- TRPH: Total recoverable petroleum hydrocarbons using EPA Method 418.1
- : Sample not analyzed for this parameter
- Sample 1A was 4-point composite from tank excavation
- Sample 2A was discrete sample from plumbing excavation
- Sample 3A was 3-point composite from excavated soil
- Samples B-4, BX-1, BX-2 collected by Harza

TABLE 3
1990 UST Removal
4227 Pleasanton Avenue, Pleasanton, California

500 gal
HUTCHINSON TRANSFER
SERVICE

Tank	Sample ID	Date	Depth* (feet)	Analyses (ppm)
				TRPH
500-Gallon Diesel	Sample 1A	2/23/90	2	20

NOTES

*: Depth is relative to the bottom of the tank
ppm: Parts per million
TRPH: Total recoverable petroleum hydrocarbons using EPA Method 418.1

TABLE 6
1994 UST Removal
 4227 Pleasanton Avenue, Pleasanton, California

*500/1000 gallon
 VALLEY EXCAVATING*

Tanks	Sample ID	Date	Depth* (feet)	Analyses (ppm)					
				TPH		Benzene	Toluene	Ethylbenzene	Xylenes
				Gasoline	Diesel				
1000-Gallon Diesel	DT-1	7/5/94	6	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
	DT-2 ^a	7/5/94	8	--	3.0	--	--	--	--
	DT-3	7/11/94	12	--	<1.0	<0.005	<0.005	<0.005	<0.005
500-Gallon Gasoline	GT-1	7/5/94	6	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
	GT-2	7/5/94	6	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
Dispenser	DSP-1	7/5/94	1	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005

NOTES

- *: Depth is relative to site grade
 - ppm: Parts per million
 - TPH: Total petroleum hydrocarbons using EPA Method 8015
 - a: Soil represented by sample DT-2 was subsequently excavated; DT-3 was collected from the same location
 - : Sample not analyzed for this parameter
- Benzene, toluene, ethylbenzene, and xylenes analyzed using EPA Method 8020

DRILL FIG B-56 HS Auger		SURFACE ELEVATION		LOGGED BY TCM				
DEPTH TO GROUNDWATER 32 Feet		BORING DIAMETER 8-Inch		DATE DRILLED 7/12/94				
DESCRIPTION AND CLASSIFICATION			DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	PID READING	REMARKS	WELL CONSTRUCTION
DESCRIPTION AND REMARKS		SOIL TYPE						
FILL: SILTY GRAVEL (GM), light gray-brown, dry, subangular, to 1/2" diameter. FILL: SILT (ML), brown, moist, trace gravel.		[Cross-hatched pattern]	5	30	0	0	DRAFT	[Dotted pattern]
SANDY GRAVEL (GP), dark gray-brown and multicolored, dry, subangular, to 1" diameter, fine-grained, some silt. As above, moist, gravel to 1/2" diameter.		[Vertical dashes pattern]	10	18	0	0		[Dotted pattern]
GRAVELLY SAND (SP), medium gray-brown, moist, coarse-grained, subrounded. As above, saturated.		[Horizontal dashes pattern]	20	35	0	0		[Dotted pattern]
SILT (ML), mottled brown, gray, and black, saturated, some clay.		[Horizontal dashes pattern]	30	40	0	0		[Dotted pattern]
Bottom of Boring = 35 Feet		[Horizontal dashes pattern]	35	28	0	0		[Dotted pattern]
Notes: 1. The stratification lines represent the approximate boundary between soil types and the transition may be gradual. 2. Boring backfilled with cement grout to grade.								

HARZA
 Consulting Engineers & Scientists

EXPLORATORY BORING LOG		
WHALEN CONSTRUCTION PROPERTY Pleasanton, California		
PROJECT NO.	DATE	BORING NO.
K808H	August 1994	B-4

2000 gal gasoline UST

DRILL RIG	CME-75 HSA	SURFACE ELEVATION	NM	LOGGED BY	DDA
DEPTH TO GROUNDWATER	33 feet	BORING DIAMETER	8-inch	DATE DRILLED	11/20/95

DESCRIPTION AND CLASSIFICATION		DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	RECOVERY (%)	REMARKS	WELL CONSTRUCTION
SOIL DESCRIPTION	SOIL TYPE						
FILL: silty gravel; light brown; subrounded to subangular, to 1/2" diameter; dry.	[Cross-hatch pattern]	0-5					
FILL: silty sand, with gravel; light brown; subangular, to 1/2" diameter; damp.	[Dotted pattern]	5-10		17	80		
SANDY GRAVEL (GP): dark brown; subangular, to 1" diameter; some silt; damp; no odor. @15': to 1-1/2" diameter.	[Vertical line pattern]	10-15		18	100	Sample BX-1/11' collected	
		15-20		25	87		
		20-25		32	93		
		25-30		35	87		
GRAVELLY SAND (SP): medium brown; coarse-grained; subrounded; moist. @35': with silt; saturated.	[Dotted pattern]	30-35		21	100	Sample BX-1/31' collected	
		35-36.5		12	50	Note: Stratification lines represent approximate boundaries between soil types and transitions may be gradual.	

BOTTOM OF BORING = 36.5 FEET
ACFCWCD PERMIT NO. 95772

HARZA
Consulting Engineers & Scientists

EXPLORATORY BORING LOG

4227 PLEASANTON AVENUE
PLEASANTON, CALIFORNIA

PROJECT NO.

K806M

DATE




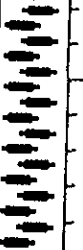
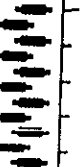



NOVEMBER 1995

BORING NO

BX-1

11/20/95

DRILL RIG	CME-75 HSA	SURFACE ELEVATION	NM	LOGGED BY	DDA
DEPTH TO GROUNDWATER	33 feet	BORING DIAMETER	8-inch	DATE DRILLED	11/20/95

DESCRIPTION AND CLASSIFICATION		DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	RECOVERY (%)	REMARKS	WELL CONSTRUCTION
SOIL DESCRIPTION	SOIL TYPE						
FILL: sandy gravel; medium brown; subangular, to 1-1/2" diameter; dry.		0-5		10	73		
SANDY SILT (ML): medium brown; trace gravel to 1/2" diameter, rounded; damp; no odor.		5-10		5	100	Sample BX-2/11' collected	
SANDY GRAVEL (GP): gray-brown; subrounded to subangular; to 1" diameter; damp.		10-15		22	87		
@20': to 2" diameter.		15-20		10	33		
@25': multicolored; some cobbles.		20-25		57	93		
@30': with silt.		25-30		27	93	Sample BX-2/31' collected	
@35': saturated.		30-35		62	100	Note: Stratification lines represent approximate boundaries between soil types and transitions may be gradual.	

BOTTOM OF BORING = 38 FEET
ACFCWCD PERMIT NO. 95772

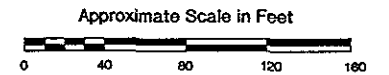
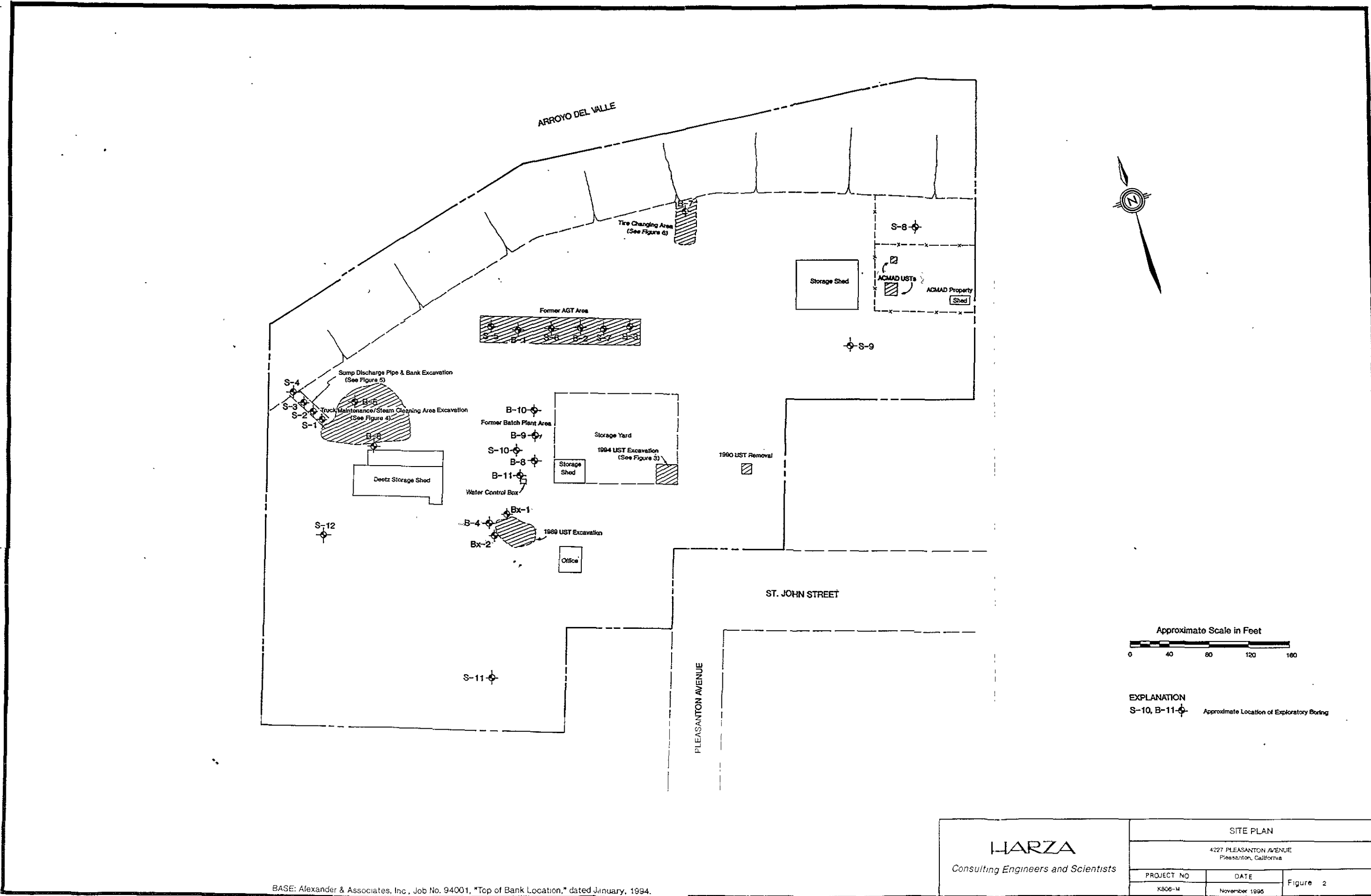
EXPLORATORY BORING LOG

4227 PLEASANTON AVENUE
PLEASANTON, CALIFORNIA

HARZA
Consulting Engineers & Scientists

PROJECT NO.	DATE	BORING NO
K806M	NOVEMBER 1995	

BX-2



EXPLANATION
 S-10, B-11 Approximate Location of Exploratory Boring

BASE: Alexander & Associates, Inc., Job No. 94001, "Top of Bank Location," dated January, 1994.

HARZA Consulting Engineers and Scientists		SITE PLAN	
		4227 PLEASANTON AVENUE Pleasanton, California	
PROJECT NO	DATE	Figure 2	
K806-M	November 1995		