

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

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

March 9, 2007

Mr. Scott Kyman
Regency Centers
1850 Mt. Diablo Boulevard, Suite 225
Walnut Creek, CA 94596

Subject: SLIC Case No. RO0002738 and Geotracker Global ID SL0600132345, Bridgeside Shopping Center, 2523-2691 Blanding Avenue, Alameda, CA

Dear Mr. Kyman:

This letter confirms the completion of site investigation and remedial actions for the soil and groundwater investigation at the above referenced site. We are also transmitting the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported releases at the subject site with the provision that the information provided to this agency was accurate and representative of existing conditions. The subject Spill, Leaks, Investigation, and Cleanup (SLIC) case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Soils in the area of the former UST contain residual total petroleum hydrocarbons (TPH) as gasoline at concentrations up to 440 parts per million and TPH as diesel at concentrations up to 310 ppm.
- Groundwater in the area of the former UST contains TPH as gasoline at concentrations up to 3,130 parts per billion (ppb). Groundwater in the area of the former dry cleaning facility contains trichloroethene at concentrations up to 37 ppb and cis 1,2-dichloroethene at concentrations up to 510 ppb.
- Soils along the former railroad right-of-way contain lead at concentrations up to 108 ppm.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
LOP and SLIC Program Manager

Enclosures: SLIC Case Closure Summary

Mr. Scott Kyman
RO0002738
March 9, 2007
Page 2

cc: Cherie McCaulou (w/enc.)
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

City of Alameda (w/enc.)
Planning and Building Department
2263 Santa Clara Avenue
Alameda, CA 94501

Debra Stott (w/enc.)
URS Corporation
915 Wilshire Boulevard, Suite 700
Los Angeles, CA 90017

Donna Drogos, ACEH (w/enc.)
Jerry Wickham, ACEH (w/ original enc)
File

**CASE CLOSURE SUMMARY
SPILLS, LEAKS, INVESTIGATION, AND CLEANUP PROGRAM**

I. AGENCY INFORMATION

Date: November 30, 2006

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Bridgeside Shopping Center		
Site Facility Address: 2523-2691 Blanding Avenue, Alameda, CA 94501		
RB Case No.: --	Local Case No.: --	LOP Case No.: RO0002738
URF Filing Date: 08/18/2004	SWEEPS No.: ---	APN: 070-0196-044 and -045
Responsible Parties	Addresses	Phone Numbers
Scott Kyman	Regency Centers, 1850 Mt. Diablo Boulevard, Suite 225, Walnut Creek, CA 94596	925-279-1775

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	Not reported	Fuel	Removed	1974
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
Piping			Removed	1974

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Two releases occurred at the site. Fuel was detected in soil and groundwater in an area where an underground fuel tank was removed and volatile organic compounds (VOCs) were detected in soil and groundwater in the area of a former dry cleaning facility that operated between 1974 and 1993. The causes and types of releases in each area are unknown.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? Yes	Number: 3	Proper screened interval? --
Highest GW Depth Below Ground Surface: 4 feet below ground surface (bgs)	Lowest Depth: 13 feet bgs	Flow Direction: Northeast toward adjacent tidal canal
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity:	
A well survey was completed for the Former Signal Oil Marine Terminal at 2332 Blanding Avenue. The closest water supply well to the site is an irrigation well of unknown depth that is approximately 900 feet south of the site. Based on the distance from the site and hydrogeology of the site, the irrigation well is not likely to be impacted by the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Alameda Tidal Canal is adjacent to site
Off-Site Beneficial Use Impacts (Addresses/Locations): No	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Not reported	Not reported	1974
Piping	--	--	--
Free Product	--	--	--
Soil	650 cubic yards	475 cubic yards disposed at Keller Canyon Landfill in Pittsburg, CA 175 cubic yards disposed at Kettleman Hills Landfill in Kettleman City, CA	October 2005
Groundwater	--	--	--

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 5 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	1,120	440	3,130	3,130
TPH (Diesel)	1,200	310	<63	<63
TPH (Motor Oil)	816(1)	816(1)	Not Analyzed	Not Analyzed
Oil & Grease	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	<1.0	<1.0	7.3	7.3
Toluene	1.3	1.3	3.4	3.4
Ethylbenzene	8.5	2.5	45	45
Xylenes	3.7	1.2	6.5	6.5
Lead	108	108	Not Analyzed	Not Analyzed
Chromium	44	44	Not Analyzed	Not Analyzed
Copper	146	146	Not Analyzed	Not Analyzed
Zinc	132	132	Not Analyzed	Not Analyzed
MTBE	<1.0(2)	<1.0(2)	2.2(2)	2.2(2)
Tetrachloroethene (PCE)	0.037	0.037	1.7	1.7
Trichloroethene (TCE)	0.15	0.15	37	37
Cis 1,2-dichloroethene (cis 1,2-DCE)	7.9	0.14	510	510
Other (8240/8270)	15(3)	1.7(4)	ND(5)	ND(5)

- (1) Total petroleum hydrocarbons in the carbon range from C22-C36 were detected at a maximum concentration of 816 ppm in a soil sample collected from the former railroad right-of-way. The maximum concentration of TPH as motor oil detected in soil from the former UST area was 42 ppm.
- (2) MTBE was the only fuel oxygenate analyzed in soil and groundwater. EDB and 1,2-DCA were not detected in soil and were not analyzed in groundwater.
- (3) Napthalene was detected at a maximum concentration of 15 ppm; 1,3,5-trimethylbenzene was detected at 9.7 ppm; butyl benzene was detected at 6.6 ppm, propylbenzene was detected at 6.8 ppm, and isopropylbenzene was detected at 2.8 ppm in soil. No other VOCs or PCBs detected.
- (4) Napthalene was detected at a maximum concentration of 1.7 ppm; 1,3,5-trimethylbenzene detected at 0.19 ppm; butyl benzene detected at 1.4 ppm, propylbenzene detected at 0.85 ppm, and isopropylbenzene detected at 0.19 ppm in soil.
- (5) No other VOCs were detected in groundwater; detection limits were variable.

Site History and Description of Corrective Actions:

The site is a commercial shopping center covering approximately 8.5 acres. All of the existing shopping center buildings were recently demolished and a new commercial shopping center is under construction. The site is bordered on the north by a dry dock and former boat repair yard, on the east by the Oakland Tidal Canal, on the west by Blanding Avenue, and on the south by Tilden Way. From the 1950s until 1974, the site was occupied by the Loop Lumber and Milling Company and a concrete plant. In 1974, the site was developed as the Ferndale shopping center. During development of the site in 1974, a fuel tank was reportedly removed from the site. No sampling was performed during the tank removal and no reports were prepared to document the removal.

In 1987, soil borings were advanced at the site to evaluate engineering properties of the foundation soils adjacent to an Alpha Beta Supermarket in the shopping center. Strong petroleum odors were observed between four and six feet bgs in one of the soil borings. An additional investigation consisting of five soil borings was conducted in October 1987. Moderate to strong petroleum hydrocarbon odors were observed in two of the soil borings and Total Extractable Hydrocarbons were detected in soil at concentrations up to 1,200 ppm. A thin, oily sheen was observed floating on groundwater in one of the borings. Seven soil borings were advanced at the site in April 1988 to delineate the extent of contamination; three of the borings were converted to monitoring wells. Fuel hydrocarbons were not detected in groundwater samples collected from the monitoring wells. The report dated June 19, 1988 (Additional Soil Testing and Preliminary Investigation of Groundwater Quality by Kaldveer Associates) recommended excavation of contaminated soil in the area of two soil borings.

A Phase I Environmental Site Assessment was conducted for the shopping center in 1995. The former UST and a dry cleaner were identified in the Phase I Environmental Site Assessment for further evaluation. A Phase II investigation was conducted in the former UST and dry cleaner areas in 2002. Seven soil borings were advanced in the area of the former UST (five borings outside and two borings inside the former Alpha Beta Supermarket building). TPHg was detected at a maximum concentration of 1,120 ppm in soil samples collected from the borings at depths of 7.5 and 11 feet bgs. BTEX were not detected or detected at concentrations less than 7.4 ppm and MTBE was not detected in the soil samples. Groundwater samples collected from the borings contained TPHg at a maximum concentration of 3,130 ppb, benzene at a maximum concentration of 7.3 ppb, toluene at a maximum concentration of 3.4 ppb, ethylbenzene at a maximum concentration of 45 ppb, and xylenes at a maximum concentration of 6.5 ppb. MTBE was not detected in groundwater samples collected from the borings. Groundwater samples collected from the three monitoring wells in the area of the former UST did not contain detectable concentrations of fuel hydrocarbons or MTBE.

Six soil borings were advanced in the area of the dry cleaner during the Phase II investigation in 2002. Tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (DCE) were detected in soil at maximum concentrations of 0.13 ppm, 0.15 ppm, and 7.4 ppm, respectively. However, the reporting limits for PCE and TCE were elevated (1.0 ppm) in two of the soil samples with elevated concentrations of cis-1,2-DCE. Groundwater samples collected from the soil borings in the area of the dry cleaner contained PCE, TCE, and cis-1,2-DCE at maximum concentrations of 1.7 ppb, 37 ppb, and 510 ppb, respectively.

Excavation and soil removal was conducted in the former UST and dry cleaner areas from October 12 through October 19, 2005. Within the former UST area excavation, the upper three to four feet of excavated soil was stockpiled and later used for backfill material. Approximately 475 cubic yards of petroleum hydrocarbon-impacted soil was excavated between depths of 3 to 8 feet bgs and was disposed off-site. A total of 17 confirmation soil samples were collected from the excavation. The maximum concentrations of TPHg and TPHd detected in confirmation soil samples collected from soil that was left in place were 440 ppm and 310 ppm, respectively.

Following removal of the building foundations, the excavation in the former dry cleaner extended to depths of four to five feet bgs. Approximately 175 cubic yards of soil was removed for off-site disposal from the former dry cleaner site. A total of 23 confirmation soil samples were collected from the bottom of the excavation. The maximum concentrations of PCE, TCE, and cis-1,2-DCE detected in confirmation soil samples collected from soil that was left in place were <0.001 ppm, 0.004 ppm, and 0.036 ppm, respectively.

A former railroad right-of-way is located within the southern portion of the site adjacent to Tilden Way. A total of four soil samples were collected from three locations within the former railroad right-of-way and analyzed for TPH, PCBs, and metals. TPH in the carbon chain interval from C22-C35 was detected in all soil samples at concentrations ranging from 17 to 816 ppm. No PCBs were detected in any soil samples. Metals were detected at concentrations within the ambient range with the exception of total lead. Lead was detected at concentrations ranging from 7.5 to 108 ppm. The soils including railroad ballast were graded and covered by pavement or structures.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? --		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? --		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Soil within a limited area beneath a water main in the area of the former UST contains residual TPH as gasoline. A soil sample collected at a depth of approximately 8 feet bgs in the area abutting the water main contained TPH as gasoline at a concentration of 440 ppm and TPH as diesel at a concentration of 120 ppm. Pavement or concrete currently covers the area. The limited residual contamination remaining in place in the area of the water main does not pose a current risk and is not expected to pose a potential future risk to human health or groundwater.

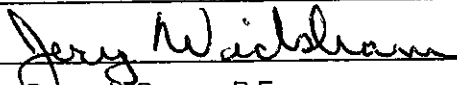
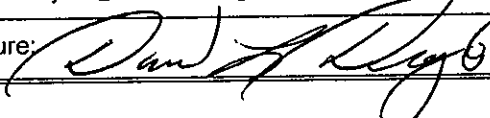
VOCs remain in groundwater at concentrations exceeding drinking water standards. Shallow groundwater in this area is not currently used as a drinking water source and no wells are likely to be receptors for the site. Based on the location of the site adjacent to the Alameda Tidal Canal, shallow groundwater is not likely to be used in the future as a drinking water source. VOC concentrations are expected to decrease over time due to natural attenuation.

No fuel oxygenates other than MTBE were analyzed in soil or groundwater. EDB and 1,1-DCA were analyzed in soil but were not analyzed in groundwater.

Conclusion:

Alameda County Environmental Health staff believe that the low levels of residual contamination at the site do not pose a significant threat to water resources, public health and safety, and the environment based upon the information in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: 	Date: 11/28/06
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 11/28/06

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 11/30/06
Signature: <i>Cherie McCaulou</i>	Date: 1/3/07

VIII. Monitoring Well Decommissioning

Date Requested by ACEH: 01/03/07	Date of Well Decommissioning Report: 03/01/07	
All Monitoring Wells Decommissioned: No	Number Decommissioned: 1	Number Retained: 0
Reason Wells Retained: All wells were destroyed. One well was properly decommissioned. Two wells were destroyed in construction.		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jung Wilhelm</i>	Date: 03/09/07	

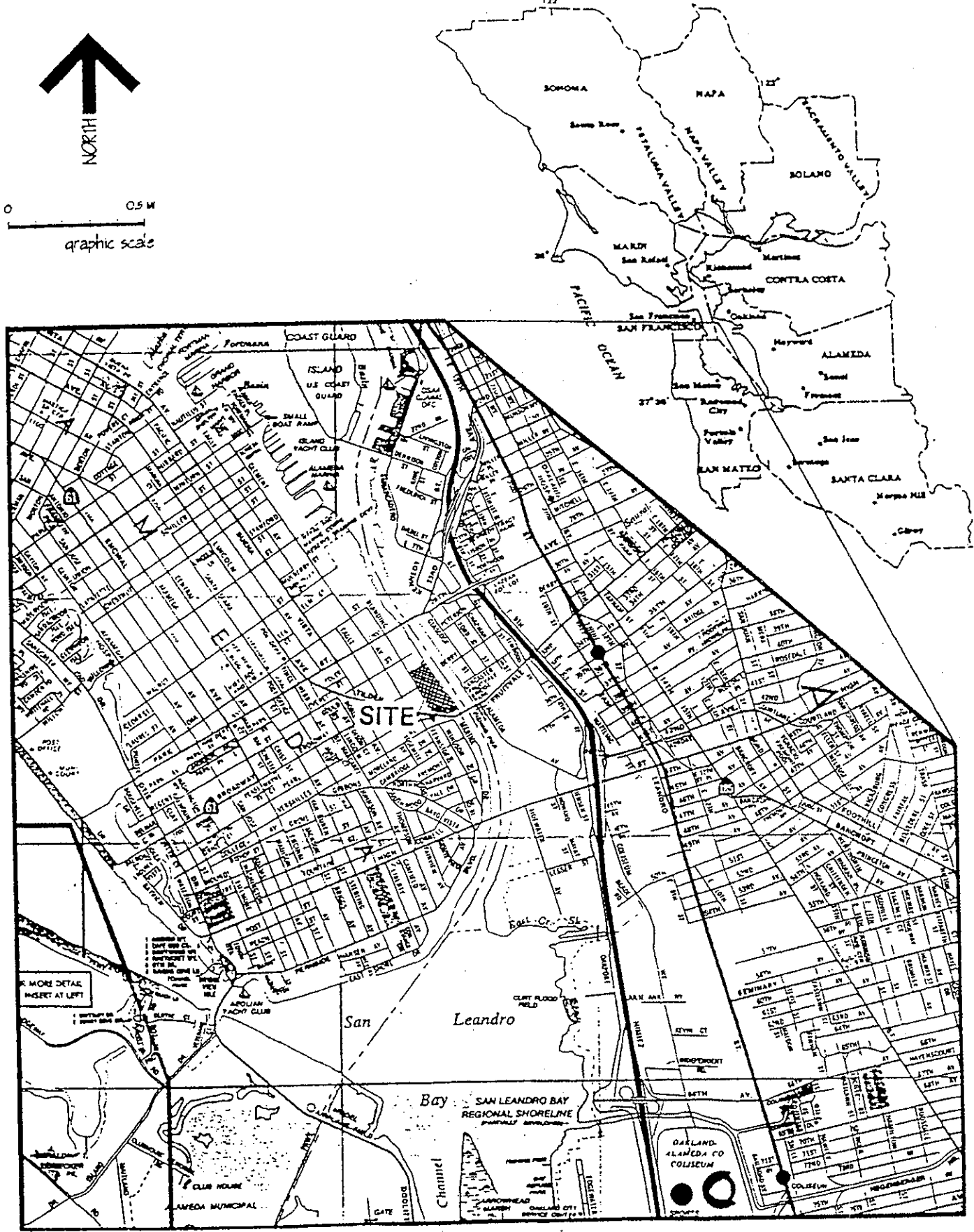
Attachments:

1. Site Location Map; Site Plan - Kaldveer Associates; Site Plan - Northgate; Site Plan -URS (4 pages)
2. Confirmation Soil Samples - UST; Confirmation Soil Samples - Former Dry Cleaner Area; Dry Cleaning Area Map; Boring Locations (4 pages)
3. Analytical Sampling Results for Soils (7 pages)
4. Analytical Sampling Results for Groundwater (3 pages)
5. Boring Logs (30 pages)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



0 0.5 M
graphic scale



Ref.: California AAA Map, 1992 - Oakland, Berkeley, Alameda



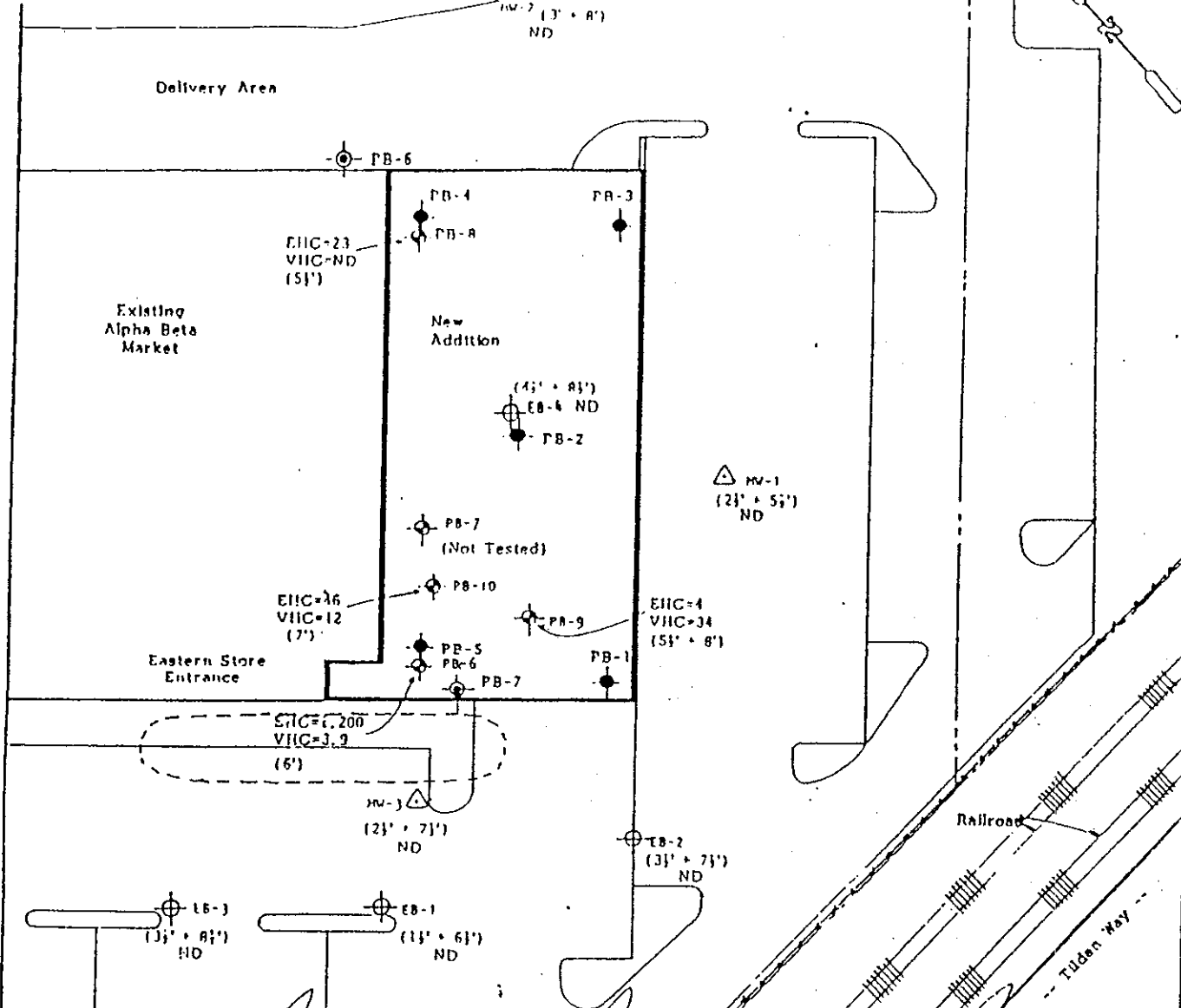
Environmental/Engineering Consultants
1220 Crossman Avenue, Suite 200
Sunnyvale, California 94089

SITE LOCATION MAP
BRIDGESIDE SHOPPING CENTER
2500-2691 Blanding Avenue
Alameda, California

JOB NO: 6430100
DRAWN BY: C. ZARICI

FIGURE
1

ATTACHMENT 1



- EB-4 ⊕ Approximate Location of Exploratory Boring Drilled in April, 1988.
- PB-10 ⊕ Approximate Location of Previous Borings Drilled in December, 1987.
- PA-5 ⊕ Approximate Location of Previous Borings drilled in October, 1987. (Geotechnical Testing Only)
- PB-7 ⊕ Approximate Location of Previous Borings drilled in April, 1972. (Geotechnical Testing Only)



- SIIC — Total Concentrations of Extractable Hydrocarbons in ppm
 - VHC — Total Concentrations of Volatile Hydrocarbons in ppm
 - ND — Not Detected Above Detection Limits
 - MW-3 △ Approximate Location of Monitoring Well. (53') Sample Depth
 - Inferred Location of Former Fuel Tank.
- Base: "Site Plan", by James W. Foug & Associates, dated November 26, 1987.



SITE PLAN		
ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
PROJECT NO.	DATE	Figure 2
KE99A-1B	June 1988	

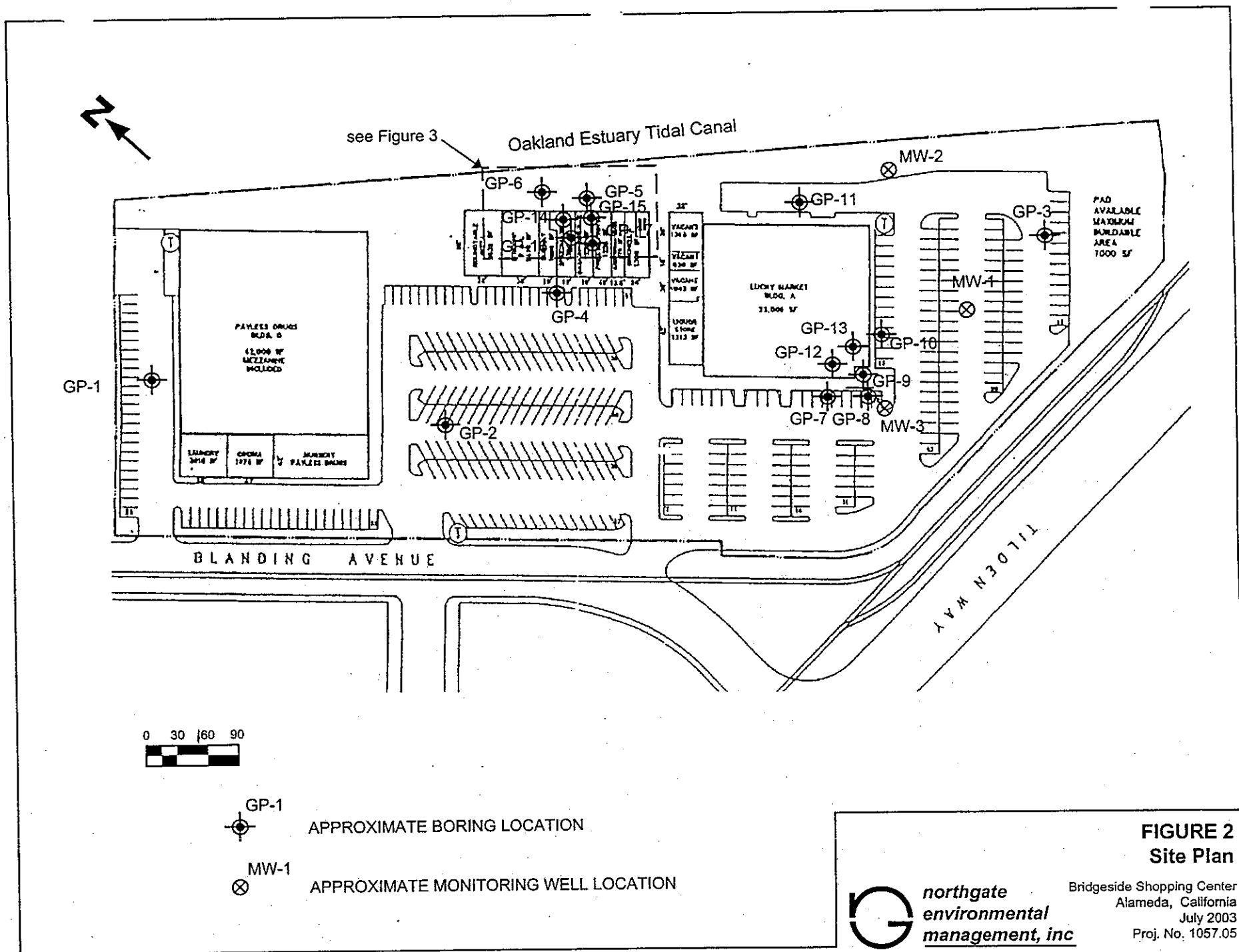


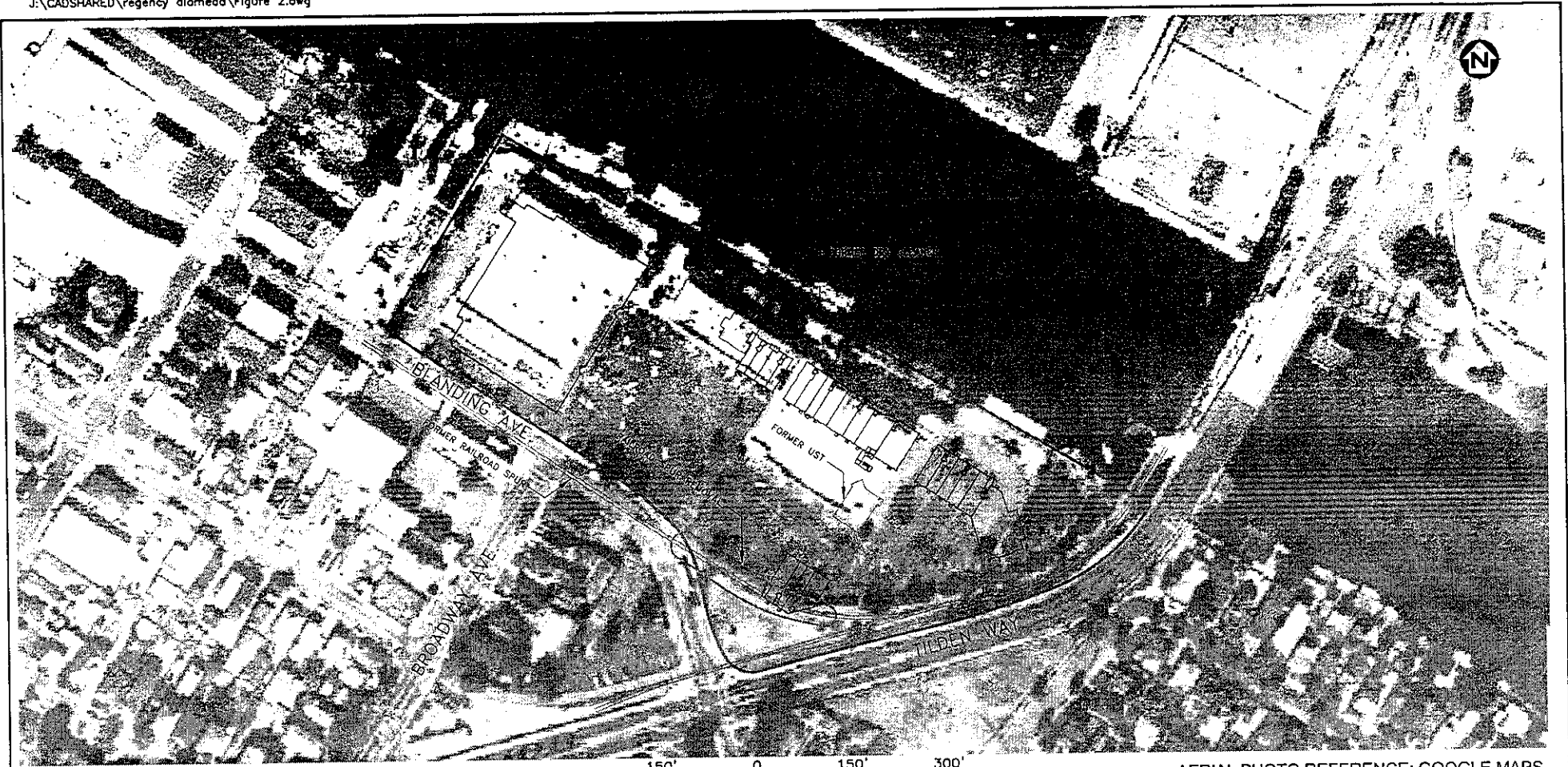


FIGURE 2
Site Plan

Bridgeside Shopping Center
Alameda, California
July 2003
Proj. No. 1057.05



-  GP-1
 APPROXIMATE BORING LOCATION
-  MW-1
 APPROXIMATE MONITORING WELL LOCATION



SCALE: 1" = 150'

AERIAL PHOTO REFERENCE: GOOGLE MAPS

LEGEND:

- SITE BOUNDARY
- - - NEW BUILDING FOOTPRINTS
- |||| RAILROAD SPUR
- /// EXCAVATION LIMITS

NOTE:

FUTURE SITE IMPROVEMENTS AND EXCAVATION OUTLINES ARE SHOWN ON AERIAL PHOTO SHOWING FORMER SITE CONDITIONS.

URS

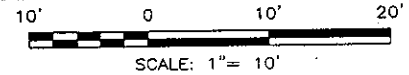
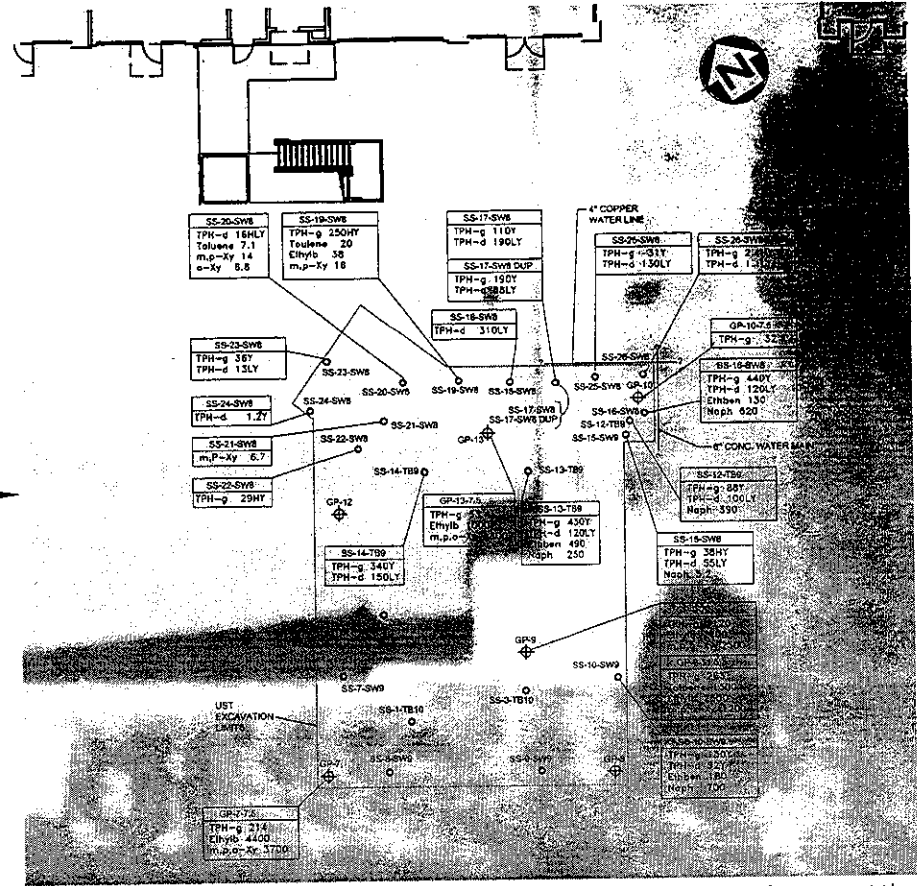
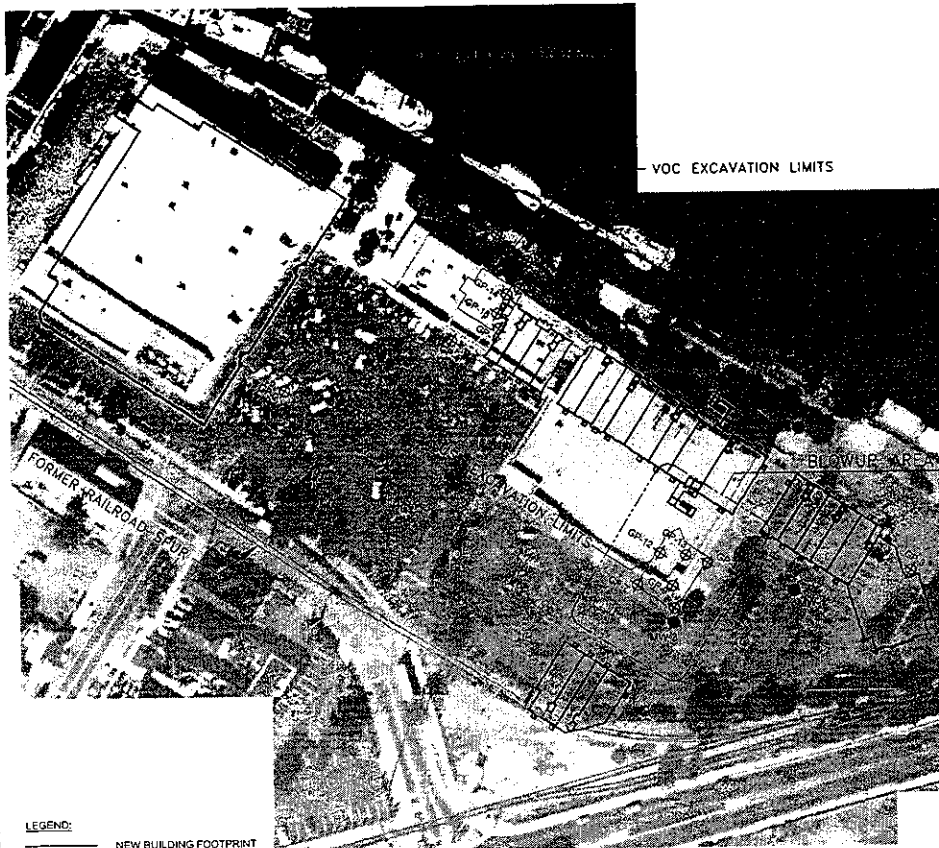
Project No. 29403462

REGENCY ALAMEDA

SITE PLAN

FIGURE
2

AERIAL PHOTO REFERENCE: GOOGLE MAPS



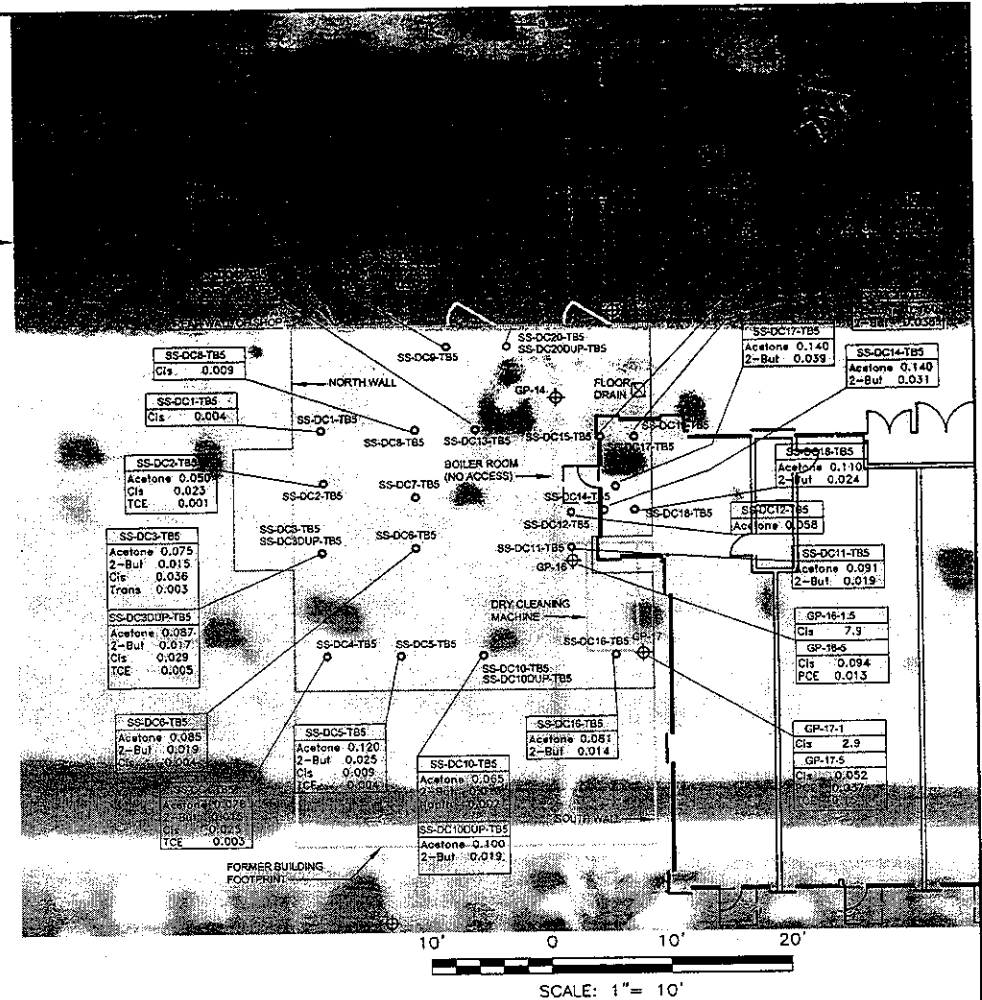
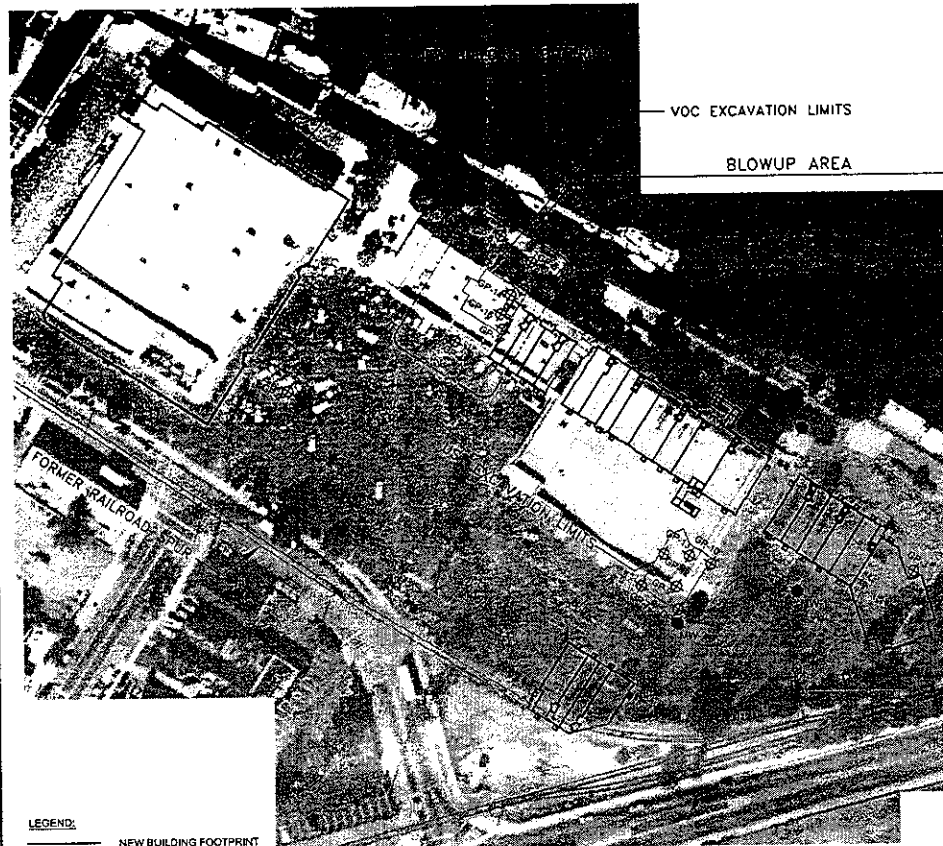
- LEGEND:**
- NEW BUILDING FOOTPRINT
 - RAILROAD SPUR
 - EXCAVATION LIMITS
 - SOIL SAMPLE LOCATION (DEPTH OF SAMPLE IS INDICATED BY THE NUMERICAL TERM FOLLOWING EITHER SW OR TB)
 - NORTHGATE SOIL BORING (DEPTH OF SAMPLE IS INDICATED BY LAST NUMERICAL TERM)
 - GROUNDWATER MONITORING WELLS

SS-12-TB9	SAMPLE ID
TPH-g 85Y	RESULTS FOR TPH IN mg/kg
TPH-d 100LY	RESULTS FOR VOCs IN g/kg
Naph 330	

NOTES:
 ONLY DETECTED RESULTS FOR TPH-g, TPH-d, BTEX AND NAPHTHALENE ARE SHOWN ON THIS FIGURE. REFER TO TABLES 1 AND 2 FOR COMPLETE RESULTS. EXCAVATION SIDEWALLS ARE VERTICAL.

URS	Project No. 29403462	CONFIRMATION SOIL SAMPLES FORMER UNDERGROUND STORAGE TANK	FIGURE 4
	REGENCY ALAMEDA		

AERIAL PHOTO REFERENCE: GOOGLE MAPS



- LEGEND:**
- NEW BUILDING FOOTPRINT
 - RAILROAD SPUR
 - EXCAVATION LIMITS
 - SOIL SAMPLE LOCATION (DEPTH OF SAMPLE IS INDICATED BY THE NUMERICAL TERM FOLLOWING EITHER SW OR TB)
 - GP-9 NORTHGATE SOIL BORING (DEPTH OF SAMPLE IS INDICATED BY LAST NUMERICAL TERM)
 - MW-1 GROUNDWATER MONITORING WELLS

SS-12-TB9	SAMPLE ID
TPH-g 887	RESULTS FOR TPH IN mg/kg
TPH-d 100LY	RESULTS FOR VOCs IN g/kg
Naph 390	

NOTES:
 ONLY DETECTED RESULTS FOR TPH-g, TPH-d, BTEX AND NAPHTHALENE ARE SHOWN ON THIS FIGURE. REFER TO TABLES 1 AND 2 FOR COMPLETE RESULTS. EXCAVATION SIDEWALLS ARE VERTICAL.

URS	Project No. 29403462	CONFIRMATION SOIL SAMPLES FORMER DRY CLEANER AREA	FIGURE 5
	REGENCY ALAMEDA		

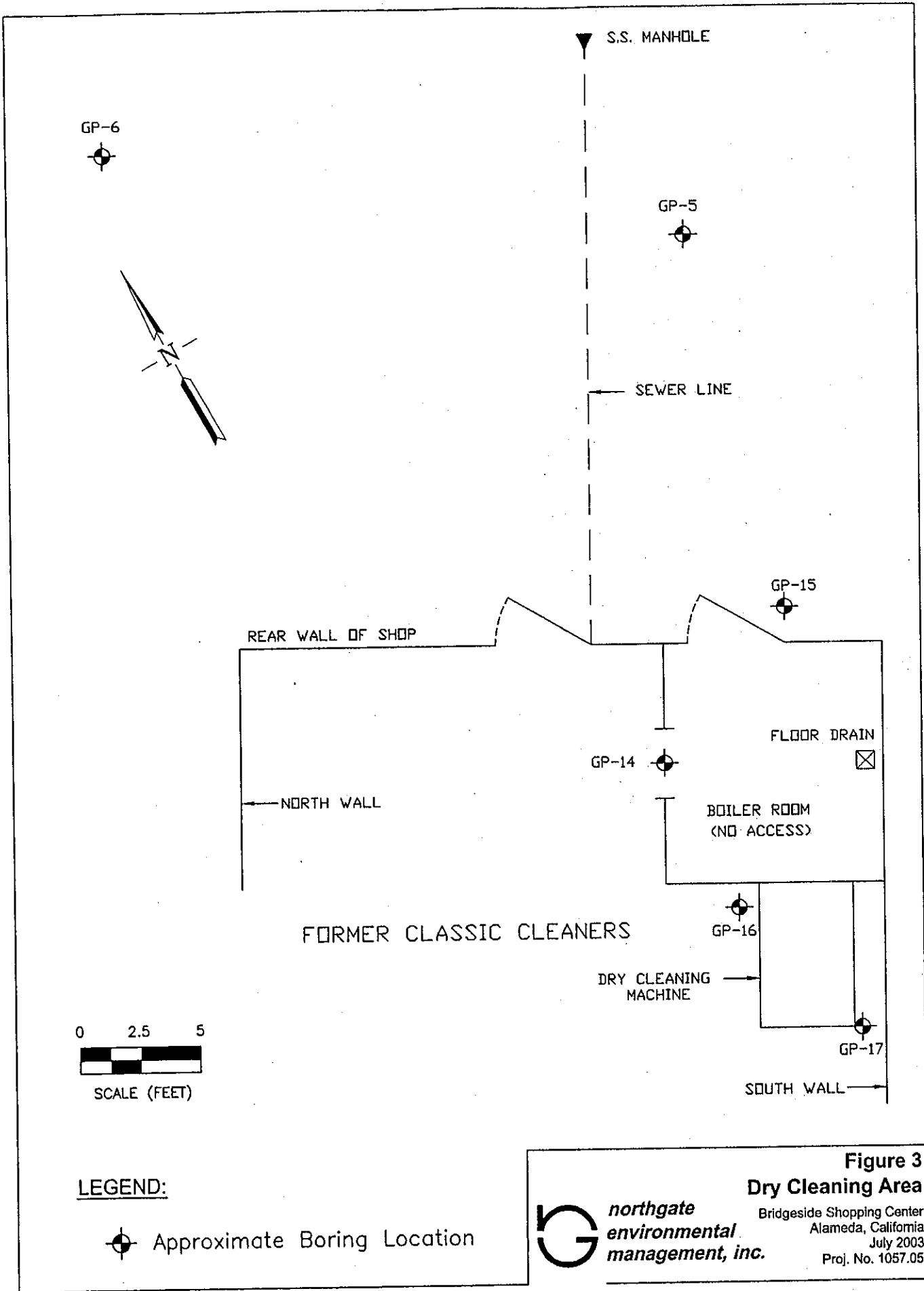


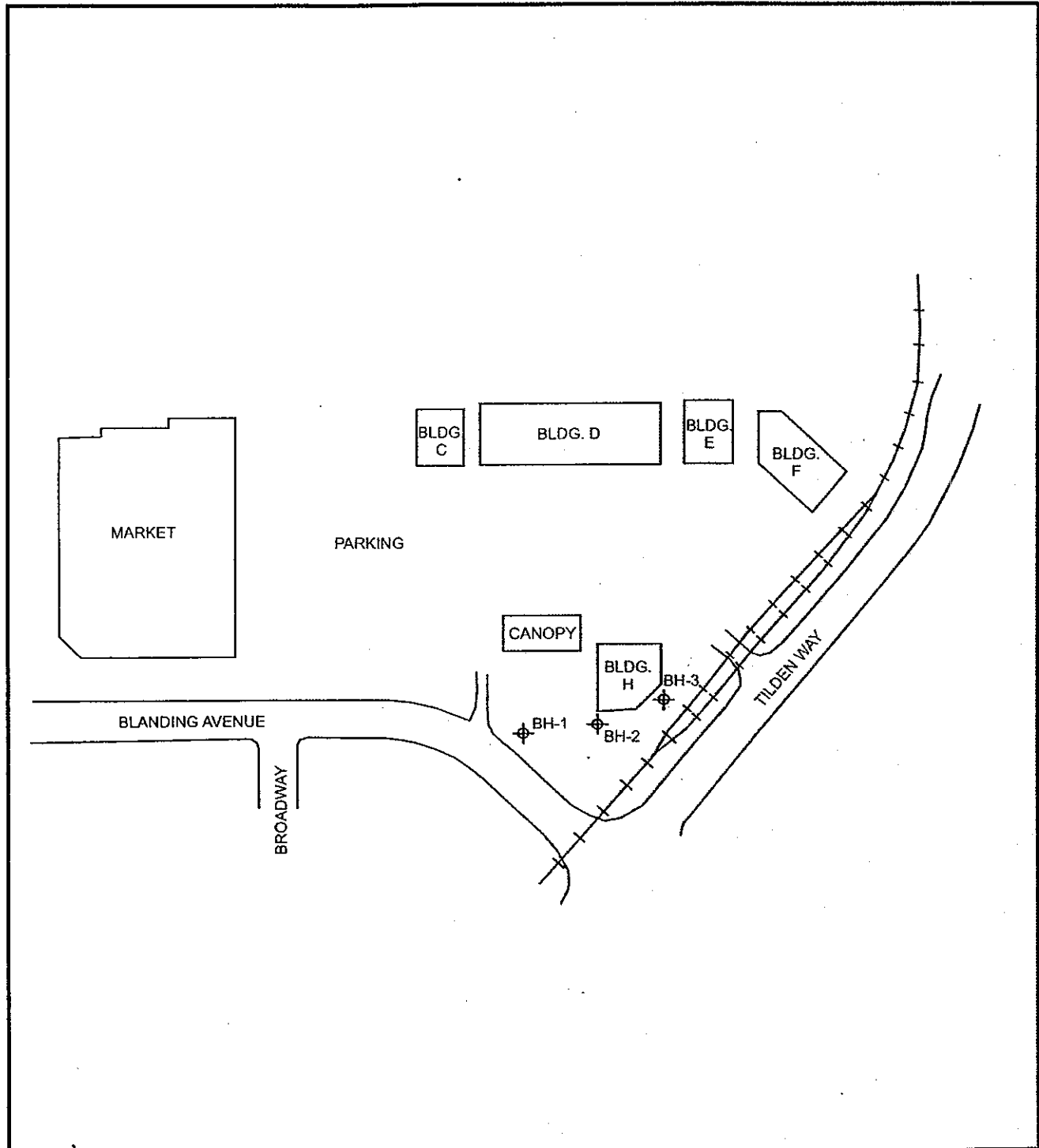
Figure 3

Dry Cleaning Area



Bridgeside Shopping Center
Alameda, California
July 2003
Proj. No. 1057.05



northgate
environmental
management, inc.



BORING LOCATIONS
BRIDGESIDE SHOPPING CENTER
ALAMEDA, CALIFORNIA

KEY:
 BH-3  BORING LOCATION
 RAILROAD TRACKS

0  .120
 APPROXIMATE SCALE IN FEET

URS
 FIGURE 2

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLING OF FORMER UST LOCATION
Regency Centers, Alameda

Former UST Site Sample ID ESLs	Results (mg/kg)		
	Total Petroleum Hydrocarbons		
	TPH-g 400mg/kg	TPH-d 500mg/kg	TPH-MO
SS-1-TB10	<0.99	<1.0	<5.0
SS-2-TB10	<0.98	<1.0	<5.0
SS-3-TB10	<1.0	<1.0	<5.0
*SS-4-SW9	240 Y J	160 L Y	<5.0
*SS-5-SW9	1,100 Y J	320 L Y	<10.0
*SS-6-SW9	<1.1	<0.99	<5.0
SS-7-SW9	<1.1	<1.0	<5.0
SS-8-SW9	<0.98	<1.0	<5.0
SS-9-SW9	<1.1	<0.99	<5.0
SS-10-SW9	130 Y J	92 L Y	<5.0
*SS-11-SW9	190 Y J	120 L Y	<5.0
SS-12-TB9	88 Y J	100 L Y	<5.0
*SS-13-TB9	430 Y J	120 L Y	<5.0
SS-14-SW8 (actually from TB)	340 Y J	150 L Y	<5.0
SS-15-SW8	38 H Y J	55 L Y	<5.0
SS-16-SW8	440 Y J	120 L Y	<5.0
SS-17-SW8	110 Y	190 L Y	<5.0
SS-17-SW8DUP	190 Y J	88 L Y	<5.0
SS-18-SW8	<0.96	310 L Y	<5.0
SS-19-SW8	250 H Y J	<1.0	<5.0
SS-20-SW8	<1.1	16 H L Y	42 L
SS-21-SW8	<1.1	<1.0	<5.0
SS-22-SW8	29 H Y J	4.5 L Y	<5.0
SS-23-SW8	36 Y J	13 L Y	<5.0
SS-24-SW8	<1.1	1.2 Y	<5.0
SS-25-SW8	31 Y J	130 L Y	<5.0
SS-26-SW8	2.1 Y	1.1 Y	<5.0

Note:

Y = Chromatogram doesn't resemble fuel standard

L = Lighter hydrocarbons contributed to quantitation

H = Heavier hydrocarbons contributed to quantitation

J = Estimated value

ND = Not detected above the reporting limit

*Confirmation sample location was removed during overexcavation

All sample depths are shown in sample ID in feet below ground surface

ATTACHMENT 3

TABLE 4
Former UST Area Soil Analytical Results
Bridgeside Shopping Center
Alameda, California

Analyte	Units	Sample Location and Depth												RBSL for Indoor Air Quality	RBSL for Direct Exposure	RBSL for Groundwater Protection	RBSL for Ceiling Value
		GP7-7.5	GP7-11.5	GP8-7.5	GP8-11.5	GP9-7.5	GP9-11.5	GP10-7.5	GP10-11.5	GP12-7.5	GP12-11.5	GP13-7.5	GP13-11.5				
TPH as Diesel - EPA 8015B	mg/kg	<63	<2	<2	<2	<5.4	<2	<2.8	<2	--	--	--	--	NA	11,000	100	1,000
TPH as Gasoline - EPA 8015B	mg/kg	214	<0.1	<0.1	<0.1	1,120	263	170	32	<0.1	<0.1	53.4	<0.1	NA	11,000	100	1,000
Purgeable Aromatics - EPA 8021B																	
Benzene	µg/kg	<1000	<10	<10	<10	<1000	<1000	<1000	<1000	<10	<10	<500	<10	390	390	45	1,000
Toluene	µg/kg	<1000	<10	<10	<10	<1000	1,300	1,000	<1000	<10	<10	<500	<10	89,000	400,000	2,600	520,000
Ethylbenzene	µg/kg	4,400	<10	<10	<10	7,400	2,500	2,600	<1000	<10	<10	1,000	<10	220,000	230,000	2,500	230,000
Xylenes	µg/kg	3,700	<10	<10	<10	2,500	1,200	1,400	<1000	<10	<10	1,800	<10	210,000	210,000	1,000	210,000
Methyl tert-Butyl Ether - EPA 8201B	µg/kg	<1000	<10	<10	<10	<1000	<1000	<1000	<1000	<10	<10	<500	<10	12,000	79,000	28	500,000

NOTES

Results reported in mg/kg (parts per million) or ug/kg (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above the laboratory method reporting limit; limits vary with compound

NA: Not applicable

--: Not analyzed

RBSL: Risk Based Screening Level for commercial land use surface soils; groundwater is considered to be a potential drinking water source

TABLE 2
Dry Cleaner Area Soil Analytical Results
 Bridgeside Shopping Center
 Alameda, California

Analyte	Units	Sample Location and Depth													RBSL for Indoor Air Quality	RBSL for Direct Exposure	RBSL for Groundwater Protection
		GP4-7	GP5-5	GP5-10	GP6-7.5	GP6-11.5	GP14-4.5	GP14-8.5	GP15-1	GP15-5	GP16-1.5	GP16-5	GP17-1	GP17-5			
Volatile Organic Compounds - EPA 8260B																	
cis-1,2-DCE	µg/kg	<10	<10	<10	<10	<10	270	17	<10	140	7,900	94	2,900	52	7,700	29,000	190
Tetrachloroethene	µg/kg	<10	21	<10	<10	<10	<50	<10	120	130	<1000	13	<1000	37	530	2,100	800
Trichloroethene	µg/kg	<10	14	<10	<10	<10	<50	<10	46	84	<1000	<10	<1000	150	1,500	3,700	400
Other VOCs	µg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

NOTES

Results reported in µg/kg (parts per billion)

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above the laboratory method reporting limit; limits vary with compound

NA: Not applicable

RBSL: Risk Based Screening Level for commercial land use surface soils; groundwater is considered to be a potential drinking water source

Analytical Results
 BRIDGESIDE CENTER
 Alameda, California
 December 2003

Analyte		Sample			
		BH-1-S (2 ft bgs)	BH-2-B (1.5 ft bgs)	BH-2-S (2.5 ft bgs)	BH-3-B (1.5 ft bgs)
CAM Metals (mg/kg)	Antimony	ND	ND	ND	ND
	Arsenic	3.16	4.78	6.24	9.51
	Barium	37.3	89.1	91.5	87.3
	Beryllium	ND	ND	ND	ND
	Cadmium	ND	0.81	0.81	1
	Chromium	25.6	29.3	38.8	44.3
	Cobalt	3.51	13.9	9.53	13.5
	Copper	7.87	62.5	41.8	146
	Lead	10.6	42.7	34.4	108
	Molybdenum	ND	1.04	ND	ND
	Nickel	7.47	31	46	38.9
	Selenium	ND	ND	ND	ND
	Silver	ND	ND	ND	ND
	Thallium	ND	ND	ND	ND
	Vanadium	19.2	62.2	40.7	75.6
Zinc	16.1	84	86.9	132	
Mercury (mg/kg)	ND	ND	ND	ND	
TPH Carbon Chain (mg/kg)	C06-C10	ND	ND	ND	ND
	C10-C22	ND	ND	ND	50J
	C22-C36	17	816	50	215
PCBs (mg/kg)	ND	ND	ND	ND	
Lead STLC (mg/L)	-	-	-	6.67	

ANALYTICAL TEST RESULTS AND DISCUSSION

No detectable amounts of petroleum hydrocarbons including BTXE, for soil samples in Exploratory Borings EB-1, EB-2, EB-3, EB-4 and Monitoring Wells MW-1, MW-2 and MW-3 were reported by the analytical laboratory. Additionally, no detectable amounts of petroleum hydrocarbons including BTXE in groundwater samples MW-1, MW-2 and MW-3 were reported by the analytical laboratory.

The following Table 2 presents cumulative analytical data reported from our current and previous investigations.

TABLE 2
SUMMARY OF TEST RESULTS ABOVE
THE METHOD DETECTION LIMITS
 (in ppm)

Matrix	Boring/ Well Number	Depth (Feet)	(in ppm)			
			Volatile low to medium B.P. Hydrocarbons	Extractable High B.P. Hydrocarbons	Benzene	Toluene
Soil	EB-1	1½+6½	ND	ND	ND	ND
Soil	EB-2	3½+7½	ND	ND	ND	ND
Soil	EB-3	3½+8½	ND	ND	ND	ND
Soil	EB-4	4½+8½	ND	ND	ND	ND
Soil	MW-1	2½+5½	ND	ND	ND	ND
Soil	MW-2	3+8	ND	ND	ND	ND
Soil	MW-3	2½+7½	ND	ND	ND	ND
Water	MW-1	N/A	ND	ND	ND	ND
Water	MW-2	N/A	ND	ND	ND	ND
Water	MW-3	N/A	ND	ND	ND	ND
Soil	PB-6	6	39	1,200	.12	.08
Soil	PB-8	5½	ND	23	ND	ND
Soil	PB-9	5½+8	34	4	--	--
Soil	PB-10	7	12	46	ND	ND

Notes:

- B.P. = Boiling Point
- EB = Exploratory Boring drilled in April 1988
- MW = Monitoring Well drilled in April 1988
- PB = Previous Boring drilled in December 1987
- ND = Not Detected (above detection limit for test method)
- = Not Analyzed
- N/A = Not Applicable

TABLE 1
Site-Wide Groundwater Sample Analytical Results
Bridgeside Shopping Center
Alameda, California

Analyte	Units	GP-1	GP-2	GP-3	GP-4	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
TPH as Diesel - EPA 8015B	mg/L	<0.1	--	<0.189	<0.169	NA	NA	0.64	0.1
TPH as Gasoline - EPA 8015B	mg/L	<0.1	<0.1	<0.1	--	NA	NA	0.50	0.1
Purgeable Aromatics - EPA 8260B									
Benzene	µg/L	<1	<1	<1	<1	1	84	46	170
Toluene	µg/L	<1	<1	<1	<1	150	76,000	130	40
Ethylbenzene	µg/L	<1	<1	<1	<1	700	170,000	290	30
Xylenes	µg/L	<1	<1	<1	<1	1,750	150,000	13	20
Methyl tert-Butyl Ether - EPA 8260B	µg/L	<1	2.2	<1	<1	5	50,000	8,000	5
Volatile Organic Compounds - EPA 8260B	µg/L	ND	ND	ND	ND	NA	NA	NA	NA

NOTES

Results reported in mg/L (parts per million) or µg/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed

NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source

TABLE 3
Dry Cleaner Area Groundwater Analytical Results
 Bridgeside Shopping Center
 Alameda, California

Analyte	Units	GP-4	GP-5	GP-6	GP-14	GP-15	GP-17	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
Volatile Organic Compounds - EPA 8260B											
cis-1,2-DCE	µg/L	<1	98	<1	510	270	<2	6	11,000	590	50,000
Tetrachloroethene	µg/L	<1	<5	<1	<10	<10	1.7	5	170	120	170
Trichloroethene	µg/L	<2	<5	<2	<21	37	<1	5	750	360	310
Other VOCs	µg/L	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

NOTES

Results reported in mg/L (parts per million) or µg/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed

NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source

TABLE 5
Former UST Area Groundwater Analytical Results
Bridgeside Shopping Center
Alameda, California

Analyte	Units	MW-1	MW-2	MW-3	GP-7	GP-8	GP-9	GP-10	GP-11	GP-12	GP-13	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
TPH as Diesel - EPA 8015B	mg/L	<0.1	<0.1	<0.1	<0.2	--	<0.45	<0.2	<0.143	--	--	NA	NA	0.64	0.1
TPH as Gasoline - EPA 8015B	mg/L	<0.1	<0.1	<0.1	0.323	--	3.13	1.47	<0.1	<0.1	<0.1	NA	NA	0.50	0.1
Purgeable Aromatics - EPA 8260B															
Benzene	µg/L	<1	<1	<1	<1	--	7.3	2.2	<1	<1	<1	1	84	46	170
Toluene	µg/L	<1	<1	<1	3.4	--	<5	<1	<1	<1	<1	150	76,000	130	40
Ethylbenzene	µg/L	<1	<1	<1	1.8	--	45	8.8	<1	<1	<1	700	170,000	290	30
Xylenes	µg/L	<1	<1	<1	2.2	--	6.5	1.5	<1	<1	<1	1,750	150,000	13	20
Methyl tert-Butyl Ether - EPA 8260B	µg/L	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	5	50,000	8,000	5
Volatile Organic Compounds - EPA 8260B															
1,3,5-Trimethylbenzene	µg/L	--	--	--	--	--	7.5	--	--	--	--	NA	NA	NA	NA
Isopropylbenzene	µg/L	--	--	--	--	--	9.4	--	--	--	--	NA	NA	NA	NA
Naphthalene	µg/L	--	--	--	--	--	57	--	--	--	--	NA	9,200	24	21
n-Propylbenzene	µg/L	--	--	--	--	--	17	--	--	--	--	NA	NA	NA	NA
Other VOCs	µg/L	--	--	--	--	--	ND	--	--	--	--	NA	NA	NA	NA

NOTES

Results reported in µg/L (parts per billion) or ug/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed (no groundwater sample collected at GP-8)

NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>West side Rite Aid Bldg.- Parking lot</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>
DRILLING CONTRACTOR _____	AGENCY _____
DRILLING METHOD <u>Geoprobe</u>	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
LOGGED BY <u>DML</u>	CHECKED BY _____
SURFACE CONDITIONS <u>AC</u>	GROUND WATER LEVELS: AT TIME OF DRILLING <u>---</u> AT END OF DRILLING <u>---</u> AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				AC paving Base Rock
2		ML		Silt, black, dry to damp strong vegetation odor
3				
4				3.5 Silty Clay, mottled grey and brown, dry
5				
6		CL		Becoming damp @ 7' greenish grey in color no odor
7				Same, grey brown in color
8				
9				
10				10.0 grading to Clayey Sand @ 11'
11		SC		
12				
13				13.0 same
14		SM		Silty Sand, brown saturated, no odor
15				
16				16.0 Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT U.S.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Parking lot near Ride Aid</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>AC</u>		AFTER DRILLING <u>---</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
1		1.0	AC paving 7:15 A.M. start
2			Drill direct push to 16' insert slotted PVC to 10'
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16		16.0	Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT U.S.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Parking lot south side</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>AC</u>		AFTER DRILLING <u>---</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
1			AC paving
2			1.0 direct push insert slotted PVC for water sample
3			no soil samples
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			16.0 Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Parking area in front of dry cleaner</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS _____		AFTER DRILLING <u>---</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				AC paving
2				Fill mixed sand clay (dark brown) angular gravelly sand dry damp
3				Sandy Clay (CL) dark brown damp, medium grained sand no odor
4				
5				
6				
7				
7.5	GP4-7	CL		
8				
9				
10				casing stuck inside sampler no recovery
11				
12				possible slough clayey sand, light grey brown, moist
13				
13.5				
14				Silty sand, greenish brown fine-medium grained wet, no odor
15		SM		
16				Bottom of hole at 16.0 feet.

GENERAL NOTE: SITE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



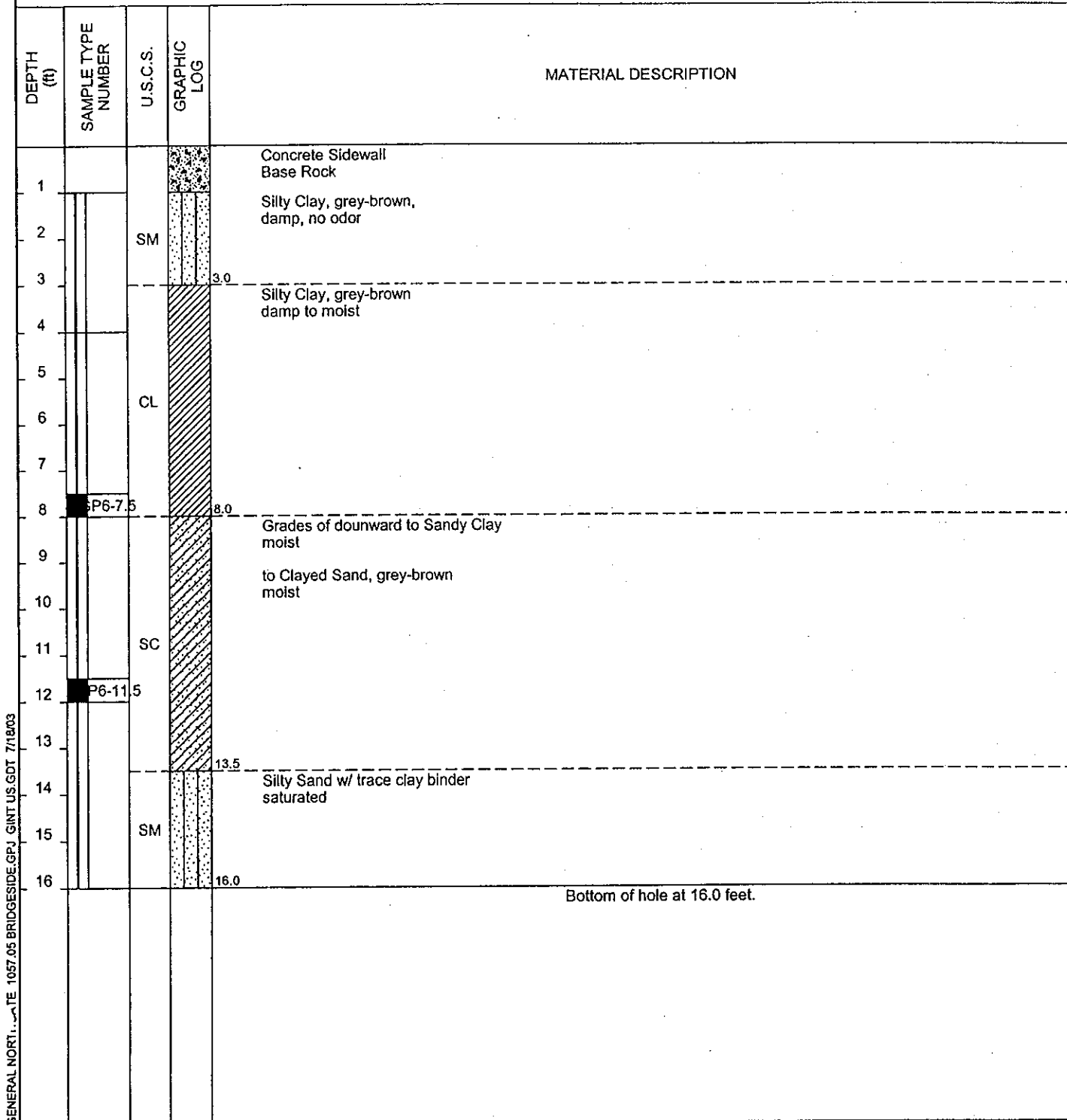
PROJECT NAME Bridgeside BORING LOCATION West side, Dry Cleaner
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR _____ AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LOGGED BY DML CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS Concrete sidewalk AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete
1				Base Rock
2				Silt, yellow-brownish black streaks v. moist, no odor
3		ML		
4				Silty Clay, black, moist organic (vegetation) odor
5	GP5-5	CL		
6				
7				Silty Clay, grey brown damp, to moist
8				
9				
10	GP5-10	CL		
11				
12				grading to clayey sand, grading to green, increasing sand w/ depth
13		SC		
14				Silty Sand, brown, saturated
15				
16		SM		
16				Bottom of hole at 16.0 feet.

GENERAL NORTH DATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



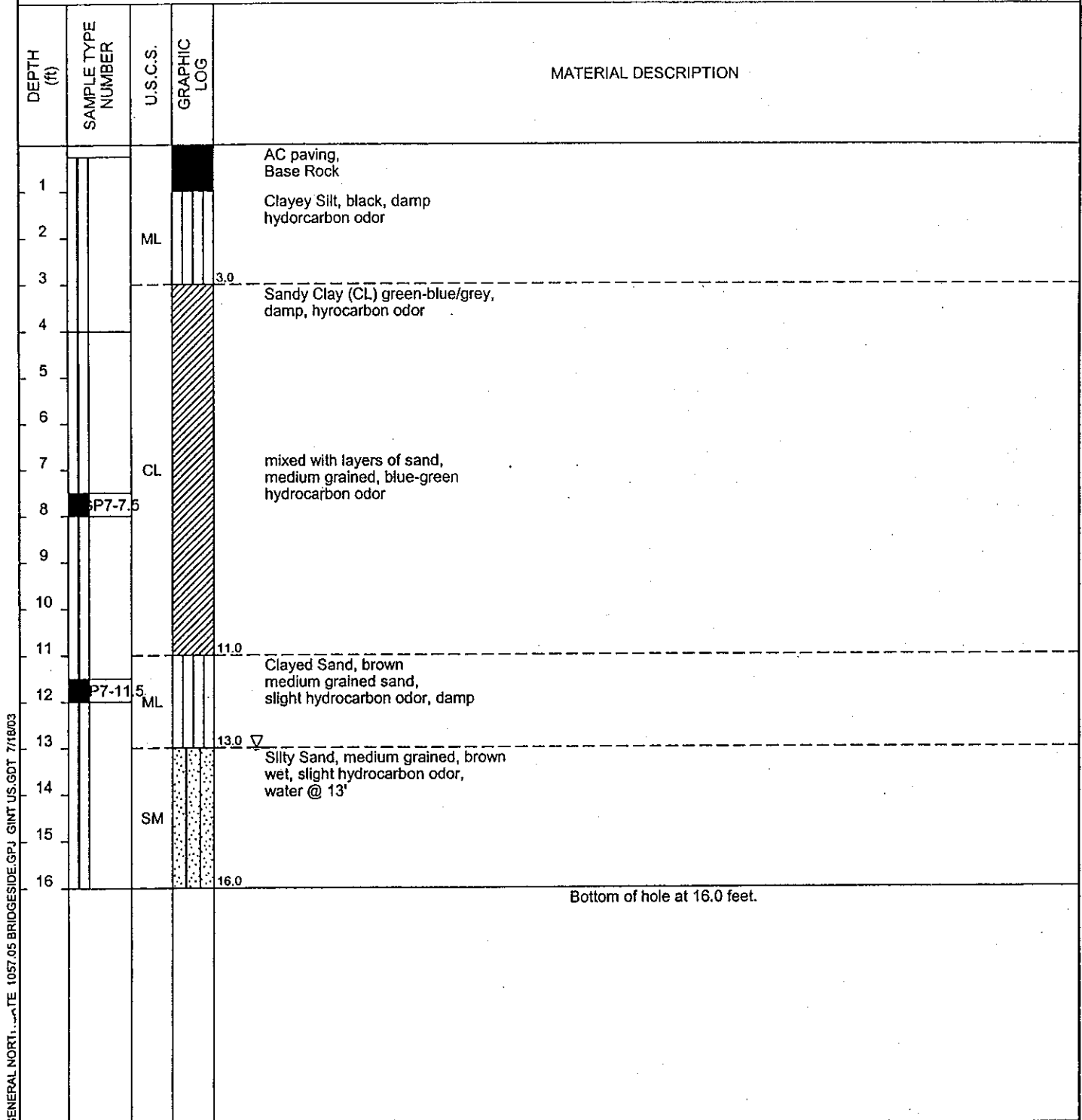
PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Behind cleaner, to west of sewer manhole</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>Concrete</u>		AFTER DRILLING <u>---</u>	



GENERAL NOTE: DATE 1057.05 BRIDGESIDE.GPJ C:\NT\US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION At grocery store
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR _____ AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe ∇ AT TIME OF DRILLING 13.0 ft
 LOGGED BY DML CHECKED BY _____ AT END OF DRILLING --
 SURFACE CONDITIONS AC AFTER DRILLING --



GENERAL_NORTI...TE_1057.05_BRIDGESIDE.GPJ_GINT_US_GDT_7/18/03



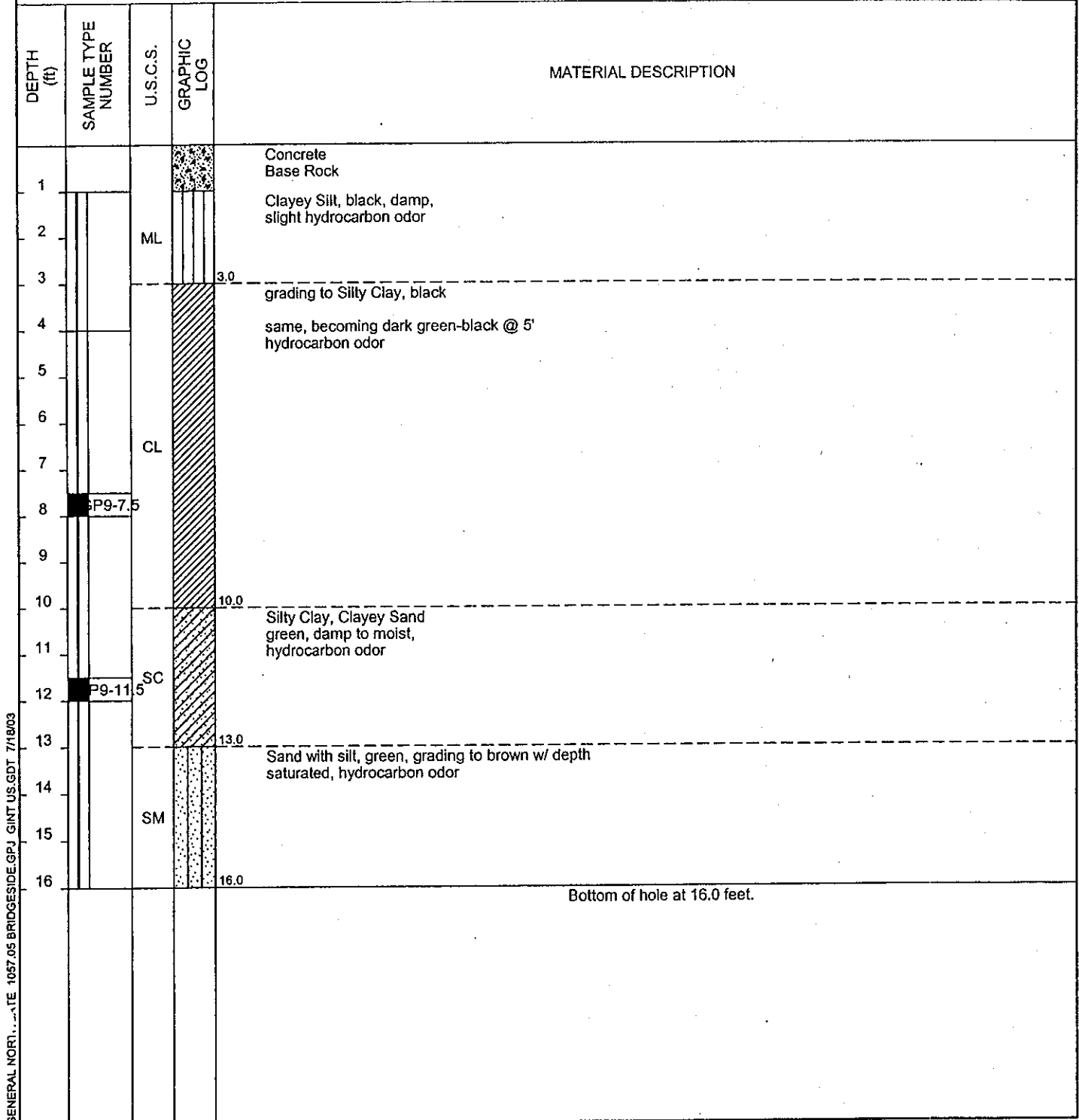
PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>At grocery corner 30' E of GP-7</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>AC</u>		AFTER DRILLING <u>---</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				AC paving
1				Base Rock
2		ML		Clayed Silt, black, damp, moderate organic (vegetation) odor
3				3.0
4				Sandy Clay w/ layers of clayey sand (SC), light grey brown, damp to moist, possible slight hydrocarbon odor
5				
6				
7				
8	P8-7.5	CL		
9				
10				Same to 12' damp, to moist, no hydrocarbon odor
11				
12	P8-11.5			12.0
				Bottom of hole at 12.0 feet.

GENERAL NOTE: SITE 1057.05 BRIDGESIDE.GPJ GINT U.S.GOT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>At grocery corner on sidewalk</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>
DRILLING CONTRACTOR _____	AGENCY _____
DRILLING METHOD <u>Geoprobe</u>	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
LOGGED BY <u>DML</u>	CHECKED BY _____
SURFACE CONDITIONS <u>AC</u>	GROUND WATER LEVELS: AT TIME OF DRILLING <u>---</u> AT END OF DRILLING <u>---</u> AFTER DRILLING <u>---</u>



GENERAL NOTE: DATE 1057.05 BRIDGESIDE.GPJ CINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION At grocery corner, sidewalk
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR _____ AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe ∇ AT TIME OF DRILLING 13.0 ft
 LOGGED BY DML CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS _____ AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1			Asphalt	Asphalt
1			Base Rock	Base Rock
2			Clayey Silt, black, damp, slight hydrocarbon odor	Clayey Silt, black, damp, slight hydrocarbon odor
2			to 4'	to 4'
3		MH		
4			4.0	
4			Silty Clay, green, w/ brown, mottling damp, hydrocarbon odor	Silty Clay, green, w/ brown, mottling damp, hydrocarbon odor
5				
6				
7				
8	P10-7.5			
8		CL		Silty Clay (CL) to Sandy Caly (SC), green damp, hydrocarbon odor
9				
10				
11				
12	P10-11.5			
12				
13			13.0 ∇	
13			Silty Sand, greenish-brown, medium grained, saturated, hydrocarbon odor	Silty Sand, greenish-brown, medium grained, saturated, hydrocarbon odor
14				
14		SM		
15				
15				
16			16.0	
16				Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION In delivery ramp behind grocery, 60' west of bldg edge
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR _____ AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LOGGED BY DML CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS Concrete AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock
2				Silty Clay, black, grading downward to grey, damp, no odor
3		CL		
4				
5				Sandy Clay, grey/brown mottled, damp, no odor
6				
7				
8				
9		CL		
10				
11				
12				12.0
				Bottom of hole at 12.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Inside grocery store - south corner
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED _____ COMPLETED _____ GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR ECA AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LOGGED BY JWO CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS AC AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 6' very hard layer @ 4' difficult to push through
2				
3				
4				
5				
6				
7		CL		Silty Clay, mix of green & black, damp, no odor
8	P12-7.5			Direct push to 10'
9				
10				10.0
11		SM		Silty Sand, fine grained, brown grading to green, damp, no odor
12	P12-11.5			Direct push to 16'
13				
14				
15				
16				16.0
				Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Inside south corner of grocery store</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED _____ COMPLETED _____	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR <u>ECA</u> AGENCY _____	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>JWO</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
SURFACE CONDITIONS <u>Concrete</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 6' rejected @ 3-4' first try, moved away ~ 10'
2				
3				
4				
5				
6				
7		SM		Silty Clay, light green w/ two black zones (2" thick) dry to damp, hydrocarbon odor @ 8'
8	P13-7.5			Direct push to 10'
9				
10				
11				
12	P13-11.5	SM		Silty Clay, mix of green & brown, damp, no odor
13				Direct push to 16' collected water samples
14				
15				
16				16.0 Bottom of hole at 16.0 feet.

GENERAL NOTE: SITE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Inside rear, dry cleaner
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED _____ COMPLETED _____ GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR ECA AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LOGGED BY JWO CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS Tile floor AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 3'
2				
3				
4		ML		Silt, green, dry to damp @ 5'
5	P14-4.5			Silt, black, slight vegetation odor, damp
6				Direct Push to 5-8'
7				
8				
9	P14-8.5	CL		Silty Clay, light green, dry to damp, no odor
10				grading to
11				Silty/ Clayey Sand, fine grained grey-brown, moist no odor
12				Hydropunch to 16'
13				
14				
15				
16			16.0	Bottom of hole at 16.0 feet.

GENERAL NORTH...FE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Rear, dry cleaner
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 7/7/03 COMPLETED 7/7/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR ECA AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Direct Push ∇ AT TIME OF DRILLING 8.9 ft
 LOGGED BY THB CHECKED BY _____ AT END OF DRILLING —
 SURFACE CONDITIONS _____ AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock
2	GP15-1	ML		Gravelly silt (ML) greyish brown, dry, gravel up to 1/2" diameter, possible slough in 1-2' portion of sample interval
3				
4	P15-3.5			Clay (CL-CH) v. dark greyish brown (10y r3/2) moist, soft, medium plasticity
5				color changes to black, same as above
6	GP15-5			
7				
8				
9				∇
10				
11				Direct push to 16'
12				
13				
14				
15				
16				Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Inside, rear of Dry Cleaner
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 7/7/03 COMPLETED 7/7/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR ECA AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Direct Push AT TIME OF DRILLING ---
 LOGGED BY THB CHECKED BY _____ AT END OF DRILLING ---
 SURFACE CONDITIONS _____ AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock
2	GP16-1	ML		Gravelly silt (ML) dark greyish brown, dry to damp, fine gravel to 1/4" diameter, slough no odor
3		CL-ML		Silty Clay (CL) black, slight moist, medium stiff, no odor
4				
5	GP16-5	CL		Grades to Clay (CL) black (10yr 2/1) moist, soft, medium plasticity, slight organic odor
				Bottom of hole at 5.5 feet.

GENERAL NORTH... (E 1057.05 BRIDGESIDE.GPJ_CINT U.S.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Inside of Dry Cleaner, south wall
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA
 DATE STARTED 7/7/03 COMPLETED 7/7/03 GROUND ELEVATION _____ HOLE SIZE 3"
 DRILLING CONTRACTOR ECA AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD Direct Push ∇ AT TIME OF DRILLING 9.2 ft
 LOGGED BY THB CHECKED BY _____ AT END OF DRILLING _____
 SURFACE CONDITIONS Concrete AFTER DRILLING _____

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1	GP17-1			Concrete, Base Rock (medium brown sand)
2	GP17-1.5			Gravelly silt (ML) greyish brown, dry
3	GP17-2 ML			
3	GP17-2.5			
3.5				-----
4		ML		Silt (ML) brown, dry, grades to Clay (CL) black, soft to medium stiff, med plasticity, no odor
4.5				-----
5	GP17-5			
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				Direct push to 16'
16				16.0 Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT U.S.GOT 7/19/03

DRILL RIG Hollow Stem Auger

SURFACE ELEVATION

LOGGED BY KE

DEPTH TO GROUNDWATER 6 1/2 feet

BORING DIAMETER 8 inches

DATE DRILLED 4/13/88

DESCRIPTION AND CLASSIFICATION

DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE	DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCOMPAIRED COMPRESSIVE STRENGTH (PSF)
2" A.C., 4" Baserock									
SAND (fine-medium grained), silty, some clay, gravelly (FILL)	dark-brown black	medium dense-dense	SM	1 2		83/9			
CLAY, silty, trace of sand (fine grained)	dark brown black	stiff	CL	3 4					
SAND (fine-medium grained), silty, some clay (grading less clay)	grey-brown	loose-medium dense	SM	5 6 7 8 9 10		12	▽		
SAND (fine-medium grained), some silt, moist	grey-brown	medium dense	SM	11 12 13 14		18 28			
Bottom of Boring = 14 feet				15 16 17 18 19 20					

Notes:
 1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.
 2. For an explanation of penetration resistance values, see Appendix A.
 3. The groundwater level was measured at 13 1/2 feet at time of drilling. Four hours after drilling, the groundwater level was measured at 6 1/2 feet.



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EXPLORATORY BORING LOG

ALPHA BETA GROUNDWATER CONTAMINATION
 Alameda, California

PROJECT NO.

DATE

BORING NO.

KE998-1B

June 1988

1

DRILL NO. LOCATION SURFACE ELEVATION LOGGED BY
 DEPTH TO GROUNDWATER 6 feet BORING DIAMETER 8 inches DATE DRILLED 4/13/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFIRMED COMPRESSIVE STRENGTH (LBS)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
2" A.C., 4" Base				1					
SAND (fine-coarse grained), silty, gravelly (FILL)	brown	medium dense	SM	2					
CLAY, silty, sandy (fine grained), trace of gravel	dark brown black	very stiff	CL	3		22			
				4					
				5					
CLAY, silty, sandy (fine grained)	grey-brown	stiff	CL	6		13			
				7					
				8					
SAND (fine-medium grained), some silt, moist (occasional clay lenses)	grey-brown	stiff	SM	9		20			
				10					
				11					
				12					
				13					
				14					
				15					
Bottom of Boring = 15 1/2 Feet Notes: 1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual. 2. For an explanation of penetration resistance values, see Appendix A. 3. The groundwater level was measured at 11 feet at time of drilling. Three hours after drilling, the groundwater level was measured at 6 feet.				16		47			
				17					
				18					
				19					
				20					



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EXPLORATORY BORING LOG


ALPHA BETA GROUNDWATER CONTAMINATION
 Alameda, California

PROJECT NO.	DATE	BORING NO.
KE998-1B	June 1988	2

DRILL RIG Hollow Stem Auger	SURFACE ELEVATION -	LOGGED BY KF
DEPTH TO GROUNDWATER 9 Feet	BORING DIAMETER 8 inches	DATE DRILLED 4/13/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOW/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (PSI)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
4" A.C., 6" Base				1					
SAND (fine-coarse grained), gravelly, silty, some clay (FILL) ↑	dark-brown black	medium dense	SM	2					
CLAY, silty, sandy (fine-medium grained)	dark-brown black	firm-stiff	CL	3					
				4	▨	12			
CLAY, silty, sandy (fine-medium grained)	grey-brown	stiff	CL-SC	5					
				6					
				7					
				8	▨	18			
				9			▽		
SAND (fine-medium grained), silty, trace of clay, moist	grey-brown	medium dense	SM	10					
				11					
				12	▨	13			
Bottom of Boring = 12 Feet				13					
Notes:				14					
1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.				15					
2. For an explanation of penetration resistance values, see Appendix A.				16					
3. The groundwater level was measured at 12 feet at time of drilling. Two hours later groundwater level was measured at 9 feet.				17					
				18					
				19					
				20					

 Kaldveer Associates Geoscience Consultants A California Corporation	EXPLORATORY BORING LOG		
	ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
	PROJECT NO.	DATE	BORING NO.
	KE998-1B	June 1988	3

DRILL AND Hollow Stem Auger		SURFACE ELEVATION		LOGGED BY KF					
DEPTH TO GROUNDWATER 9 feet		BORING DIAMETER 8 inches		DATE DRILLED 4/13/88					
DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (PSI)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
3" A.C., 6" Base				1					
CLAY, silty, sandy (fine-medium grained)	dark brown-black	stiff	CL	2					
				3					
				4					
				5	12				
CLAY, silty, sandy (fine-medium grained), moist	grey-brown	stiff	CL-SC	6					
				7					
				8					
				9	17	▽			
SAND (fine-medium grained), some silt, moist-wet	grey-brown	medium-dense	SM	10					
				11					
				12	25				
Bottom of Boring = 12½ Feet Notes: 1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual. 2. For an explanation of penetration resistance values, see Appendix A. 3. The groundwater level was measured at 12 feet at time of drilling. Half hour later the groundwater level measured 9 feet.				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
 Kaldveer Associates Geoscience Consultants A California Corporation				EXPLORATORY BORING LOG					
				ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California					
				PROJECT NO.		DATE		BORING NO.	
				KE998-1B		June 1988		4	

DRILL RIG	Hollow Stem Auger	SURFACE ELEVATION	6.66' (note 4)	LOGGED BY	KF
DEPTH TO GROUNDWATER	5' (see note 3)	BORING DIAMETER	8 inches	DATE DRILLED	4/12/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (PSI)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
5" A.C., 4" Base									
CLAY, silty, sandy (fine grained), very slight petroleum odor.	black-	stiff	CL	1					
				2		17			
				3					
CLAY, silty, sandy (fine grained)	grey-brown	very stiff	CL	4					
				5					
				6		25			
				7					
SAND (fine-medium grained), silty, trace of clay, moist	grey-brown	loose medium dense	SM	8					
				9					
				10		11			
				11					
		medium dense		12					
				13					
		dense-very dense		14					
				15		74			
				16					
				17					
				18					
				19					
				20		61			



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EXPLORATORY BORING LOG

ALPHA BETA GROUNDWATER CONTAMINATION
 Alameda, California

PROJECT NO.	DATE	Monitoring
KE998-1B	June 1988	Well 1

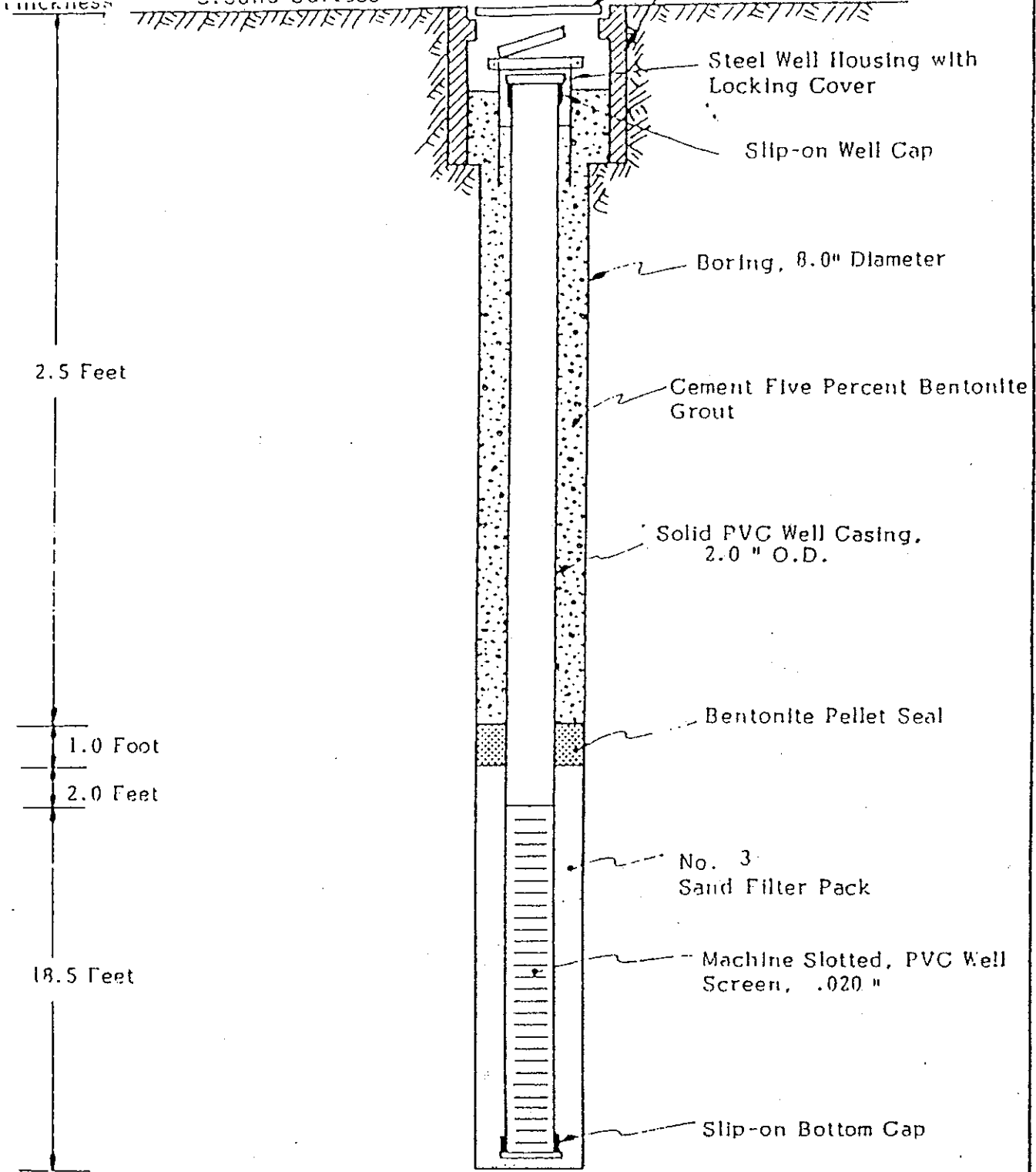
DRILL RIG Hollow Stem Auger SURFACE ELEVATION 6.00 (NOTE 1) LOGGED BY KE
 DEPTH TO GROUNDWATER 5 feet (note 3) BORING DIAMETER 8 inches DATE DRILLED 4/12/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT.)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (KSF)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
SAND (fine-medium grained), silty, trace of clay	grey-brown	dense-very dense	SM	21					
CLAY, silty, trace of sand (fine-coarse grained)	green-grey	very stiff	CL-CH	22					
				23					
				24					
Bottom of Boring = 24 Feet Notes: 1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual. 2. For an explanation of penetration resistance values, see Appendix A. 3. The groundwater level was measured at 12 feet at time of drilling. Five hours later groundwater level was measured at 5 feet. 4. Location of reference datum is explained in Appendix A and shown on figure 3.				25					
				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					



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EXPLORATORY BORING LOG		
ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
PROJECT NO.	DATE	Monitoring Well No. 1
KE998-1B	June 1988	




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MONITORING WELL COMPLETION DETAIL		
ALPHA BETA GROUNDWATER CONTAMINATION Oakland, California		
PROJECT NO.	DATE	Figure MW-1
KE998-1B	June 1988	

DRILL RIG Hollow Stem Auger	SURFACE ELEVATION 4.82' (note 4)	LOGGED BY KF
DEPTH TO GROUNDWATER 9' (note 3)	BORING DIAMETER 8 inches	DATE DRILLED 4/12/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (PSI)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
CLAY, silty, sandy (fine grained)	dark brown-black	firm-stiff	CL	1		7			
				2					
				3	▨				
				4					
CLAY, silty, sandy (fine grained)	grey-brown	stiff	CL	5		12			
				6					
				7					
				8	▨				
				9					
				10					
SAND (fine-medium grained)	grey-brown	dense	SM	11		44			
				12					
				13	▨				
				14					
				15					
				16					
				17					
				18	▨				
				19					
				20					

 Kaldveer Associates Geoscience Consultants A California Corporation	EXPLORATORY BORING LOG		
	ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
	PROJECT NO.	DATE	Monitoring Well No. 2
	KE998-1B	June 1988	

DEPTH TO GROUNDWATER 9' (note 3)

BORING DIAMETER 8 inches

DATE DRILLED 4/12/88

DESCRIPTION AND CLASSIFICATION

DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE	DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (KSF)
SAND (fine-medium grained), some silt	grey-brown	dense	SM	21					
CLAY, silty, trace of sand and gravel	green-grey	very stiff	CL	22					
				23					
				24					
				25					
Bottom of Boring = 25 Feet Notes: 1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual. 2. For an explanation of penetration resistance values, see Appendix A. 3. The groundwater level was measured at 11½ feet at time of drilling. Twenty-four hours after drilling groundwater level was measured at 9 feet. 4. Location of reference datum is explained in Appendix A and shown on Figure 3.				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					



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EXPLORATORY BORING LOG

ALPINA BETA GROUNDWATER CONTAMINATION
 Alameda, California

PROJECT NO.

KE998-1B

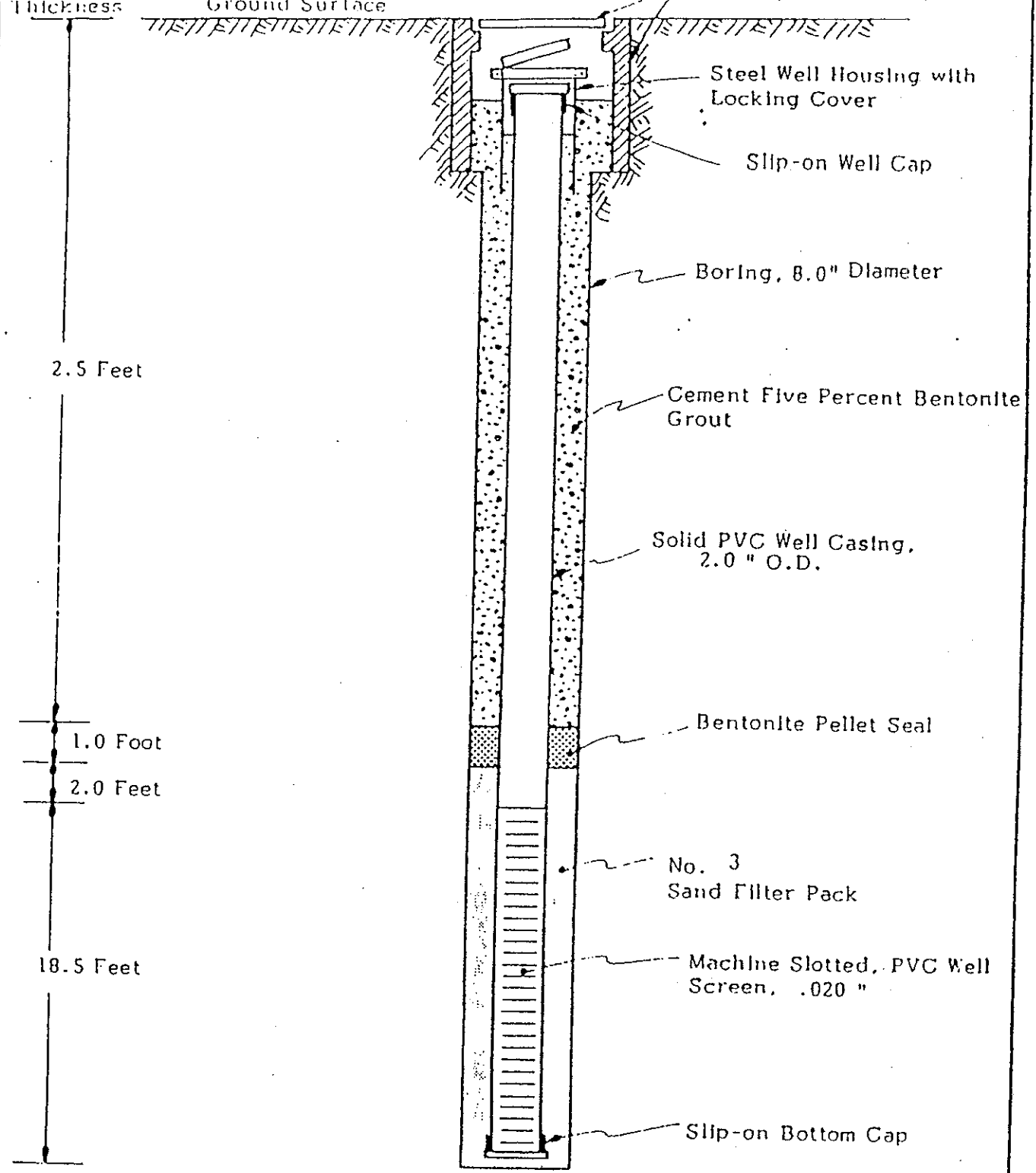
DATE

June 1988

Monitoring

Well No.

2



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MONITORING WELL COMPLETION DETAIL

ALPHA BETA GROUNDWATER CONTAMINATION
 Alameda, California.

PROJECT NO.

DATE

KE998-1B

June 1988

Figure MW-2

DRILL RIG	Hollow Stem Auger	SURFACE ELEVATION	4.87' (note 4)	LOGGED BY	KF
DEPTH TO GROUNDWATER	6' (note 3)	BORING DIAMETER	8 inches	DATE DRILLED	7/13/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (PSI)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
2 1/2" A.C., 4" Base				1					
CLAY, silty, some sand (fine grained)	dark brown-black	stiff	CL	2					
				3		15			
				4					
				5					
CLAY, silty, sandy (fine grained)	grey-brown	stiff	CL-SC	6					
				7					
				8		18			
				9					
SAND (fine-medium grained), with silt	grey-brown	medium dense	SM	10					
				11					
				12					
				13		24			
				14					
				15					
				16					
				17					
				18		32			
				19					
20				85					




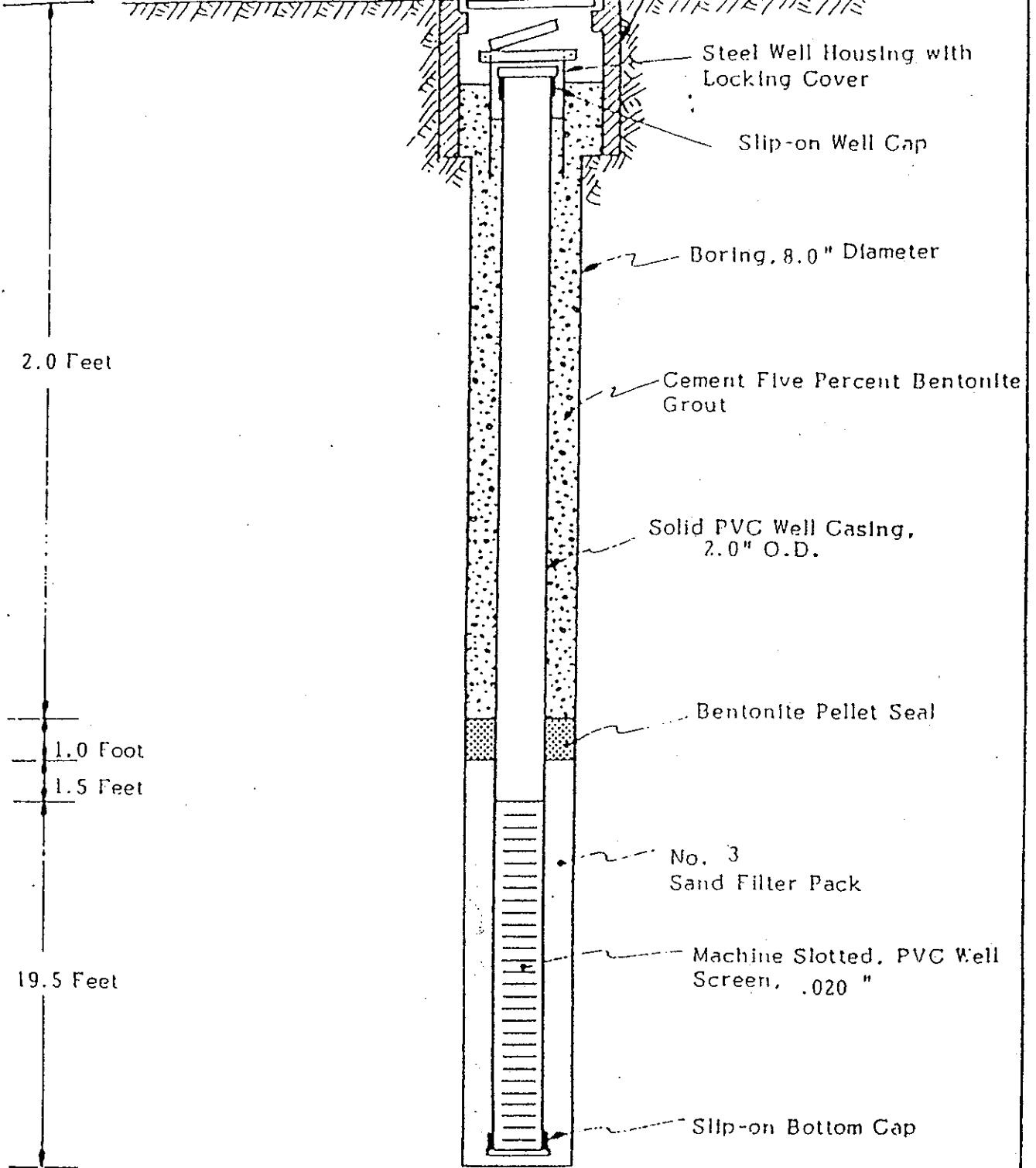
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EXPLORATORY BORING LOG		
ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
PROJECT NO.	DATE	Monitoring
KE998-1B	June 1988	Well No. 3

DRILL RIG Hollow Stem Auger	SURFACE ELEVATION 4.87 (note 4)	LOGGED BY KF
DEPTH TO GROUNDWATER 6' (note 3)	BORING DIAMETER 8 inches	DATE DRILLED 4/13/88

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	UNCONFINED COMPRESSIVE STRENGTH (KSF)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
SAND (fine-medium grained), some silt	grey-brown	dense	SM	21	[diagonal hatching]	85			
				22					
				23					
				24					
				25					
<p>Bottom of Boring = 25 Feet</p> <p>1. The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.</p> <p>2. For an explanation of penetration resistance values, see Appendix A.</p> <p>3. The groundwater level was measured at 14½ feet at time of drilling. Six hours later groundwater level measured 6 feet.</p> <p>4. Location of reference datum is explained in Appendix A and shown on figure 3.</p>				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					

 <p>Kaldveer Associates Geoscience Consultants A California Corporation</p>	EXPLORATORY BORING LOG		
	ALPHA BETA GROUNDWATER CONTAMINATION Alameda, California		
	PROJECT NO.	DATE	Monitoring Well No.
	KE998-1B	June 1988	3



Kaldveer Associates
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MONITORING WELL COMPLETION DETAIL

ALPHA BETA GROUNDWATER CONTAMINATION
 Alameda, California

PROJECT NO	DATE	Figure MW-3
KE998-1B	June 1988	