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

RO# 784

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

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 6529 - 1050 San Pablo Avenue, Albany, CA
(2-500 gallons tanks removed on August 15, 1997)

November 3, 1998

Ms. Susan Spencer
Regents of UC
317 University Hall #1150
Berkeley, CA 94720-1150

Dear Ms. Spencer:

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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

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

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

Sincerely,

Mee Ling Tung

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Brian Crudo, Albany Fire Dept, 1000 San Pablo Ave, Albany, CA 94706
files-ec (gilltract-2)

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ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
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StID 6529

November 3, 1998

Ms. Susan Spencer
Regents of UC
317 University Hall #1150
Berkeley, CA 94720-1150

Re: Fuel Leak Site Case Closure for UC Gill Tract at 1050 San Pablo Ave, Albany, CA

Dear Ms. Spencer:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- up to 300ppm TPH as gasoline and 0.44ppm benzene exists in soil beneath the site;
- up to 100ppb TPH as gasoline exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

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

c: Gary Patton, Albany Planning Dept, 1000 San Pablo Ave, Albany, CA 94706
files (gilltract3)

RB Lic # 01-2278

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

ER

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
OCT 23 1998

I. AGENCY INFORMATION

Date: **July 27, 1998**

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **UC Gill Tract**
Site facility address: **1050 San Pablo Ave, Albany, CA 94710**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **6529**
URF filing date: **8/28/97** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Regents of UC **Attn. Susan Spencer**	**317 University Hall #1150** **Berkeley, CA 94720-1150**	**510/643-9574**

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	500	Diesel	Removed	8/15/97
2	500	Gasoline	Removed	8/15/97

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **7/23/98**
Monitoring Wells installed? **No** Number: **NA**
Proper screened interval? **NA**
Highest GW depth below ground surface: **Groundwater encountered at ~11'bgs'**
Flow direction: **Assumed westerly, based on topography**
Most sensitive current use: **Agricultural**
Are drinking water wells affected? **No** Aquifer name:
Is surface water affected? **No** Nearest affected SW name:
Off-site beneficial use impacts (addresses/locations):
Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	2 USTs	Disposed by Erickson, Richmond	8/17/97
Soil	40 tons	Disposed at TPS Technologies, Richmond	8/20/97
Groundwater	1600 gal.	Disposed at Seaport Petroleum, Redwood City	8/20/97
Barrels	2-55 gal. drums	Disposed at Rollins Environmental, Los Angeles	10/22/97

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	900	300	7,400	100
TPH (Diesel)	ND	NA	760	ND
Benzene	3.0	0.44	1,300	ND
Toluene	0.63	0.63	260	ND
Ethylbenzene	6.2	1.7	130	ND
Xylenes	17	1.9	370	ND
MTBE	<17	NA	NA	100

Other

NOTE:
1. soil sample collected at time of UST removal, 8/15/97
2. soil sample collected after overexcavation, 8/20/97
3. grab water sample from gasoline pit after overexcavation, 8/20/97
4. grab water sample from borehole B-2, 2/98

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

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? **YES**
Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **NA**
Number Decommissioned: Number Retained:
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: [signature] Date: 10/9/98

Reviewed by

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: [signature] Date: 8/5/98

Name: **Thomas Peacock** Title: **Supervisor**

Signature: [signature] Date: 10-9-98

VI. RWQCB NOTIFICATION

Date Submitted to RB: 10/13/98 RB Response:

RWQCB Staff Name: **Chuck Headlee** Title: **EG**

Signature: [signature] Date: 10/23/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

Two USTs (1-500 gallon diesel and 1-500 gallon gasoline tanks) were removed in August 1997. The diesel tank appeared in good condition. The gasoline tank had a 2" diameter hole on top of the tank, adjacent to the vent pipe, and numerous holes were noted on the gasoline product line. A soil sample was collected from the floor of each tank excavation. The soil sample from the diesel pit did not contain hydrocarbon constituents. The soil sample from the gasoline pit contained up to 900ppm TPHg, and 3.0, ND, 6.3, and 17ppm BTEX, respectively. MTBE was not detected above the detection limit of 17ppm. (See Figs 1, 2 and Table 1)

The gasoline pit was overexcavated on August 20, 1997, but only after ~1,600 gallons of storm water (resulting from the removal of the French drain system which was directly over the former tanks) were removed from the pit. Groundwater was encountered at ~11' bgs. Final excavation dimensions were 12' x 6.5' x 11.5' deep. Sidewall soil samples were obtained from the northeast and southwest corners at ~10' bgs. The southwest sample contained up to 300ppm TPHg, and 0.44, 0.63, 1.7, and 1.9ppm BTEX, respectively. Visibly stained soil was noted along the western sidewall at ~8"to 9"bgs. However, overexcavation was limited at this end of the pit because of the adjacent building structure. Following overexcavation a grab groundwater sample was collected. This sample contained 7,400ppb TPHg, 760ppb TPHd, and 1,200, 260, 130, and 370ppb BTEX, respectively. (See Table 1)

A limited subsurface investigation was conducted in February 1998 using a direct push sampling system. Three soil borings (B-1 through B-3) were advanced around the former tank excavation to ~12' bgs. Soil and groundwater samples were collected from each borehole. None of the soil samples contained TPHg, BTEX, or MTBE. Only groundwater from borehole B-2 contained hydrocarbon constituents (TPHg and MTBE at 100ppb each). (See Figs 3 and 4)

It appears the fuel release at the site is limited to the immediate vicinity of the former UST. Clay sediments, as well as the hot steam pipe running along the former tank excavation, have limited the dispersion of contaminants in soil and groundwater. The identification of MTBE was not confirmed using Method 8260. Absent BTEX constituents in groundwater, the MTBE identified could be a false positive result.

Two creeks are located in the near vicinity, Village Creek and Codornices Creek. The UST site is ~250' from Village Creek and ~700' from Cordornices Creek, at the closest. Assuming a westerly groundwater flow direction, the nearest creek which could be impacted by the fuel release is approximately 1,850' away (see Fig 5). It is not likely that residual groundwater contamination would migrate that distance to impact the creek. Greenhouse structures are mostly at the property immediately west of the former tank site. There are no residential structures immediately west of Gill Tract. Permanent groundwater monitoring wells are not warranted. No further action is deemed necessary at this site.

In summary, case closure is recommended because:

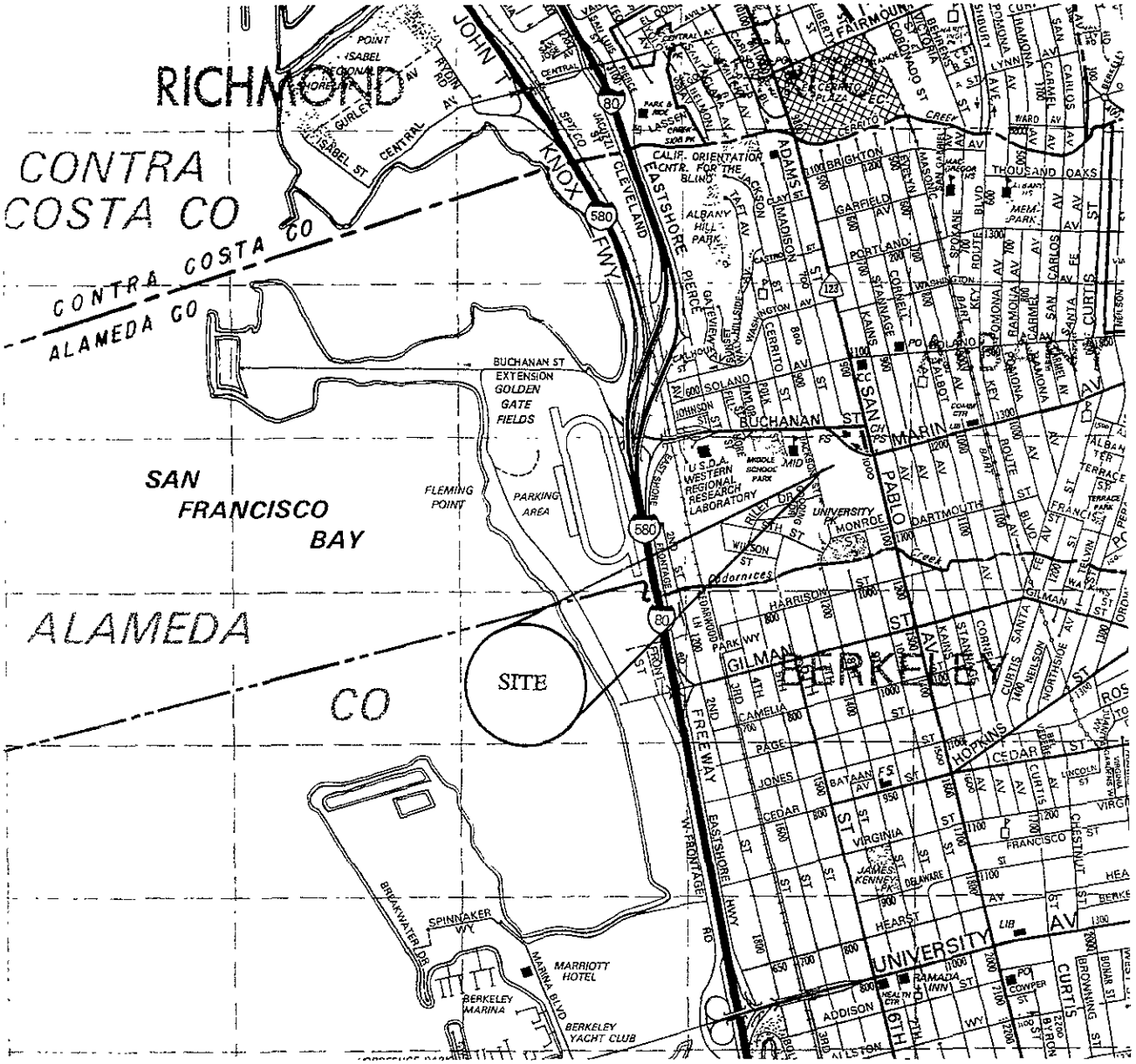
- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

DRAWING NUMBER

CHECKED BY
APPROVED BY

DRAWN BY

NORTH ↑



SCALE OF MAP PAGES
1 INCH TO ¼ MILE

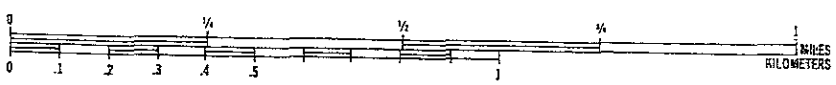


FIGURE 1
SITE LOCATION MAP

PREPARED FOR:

UC BERKELEY
GILL TRACT RESEARCH FACILITY

126076

IT . . Creating a Safer Tomorrow

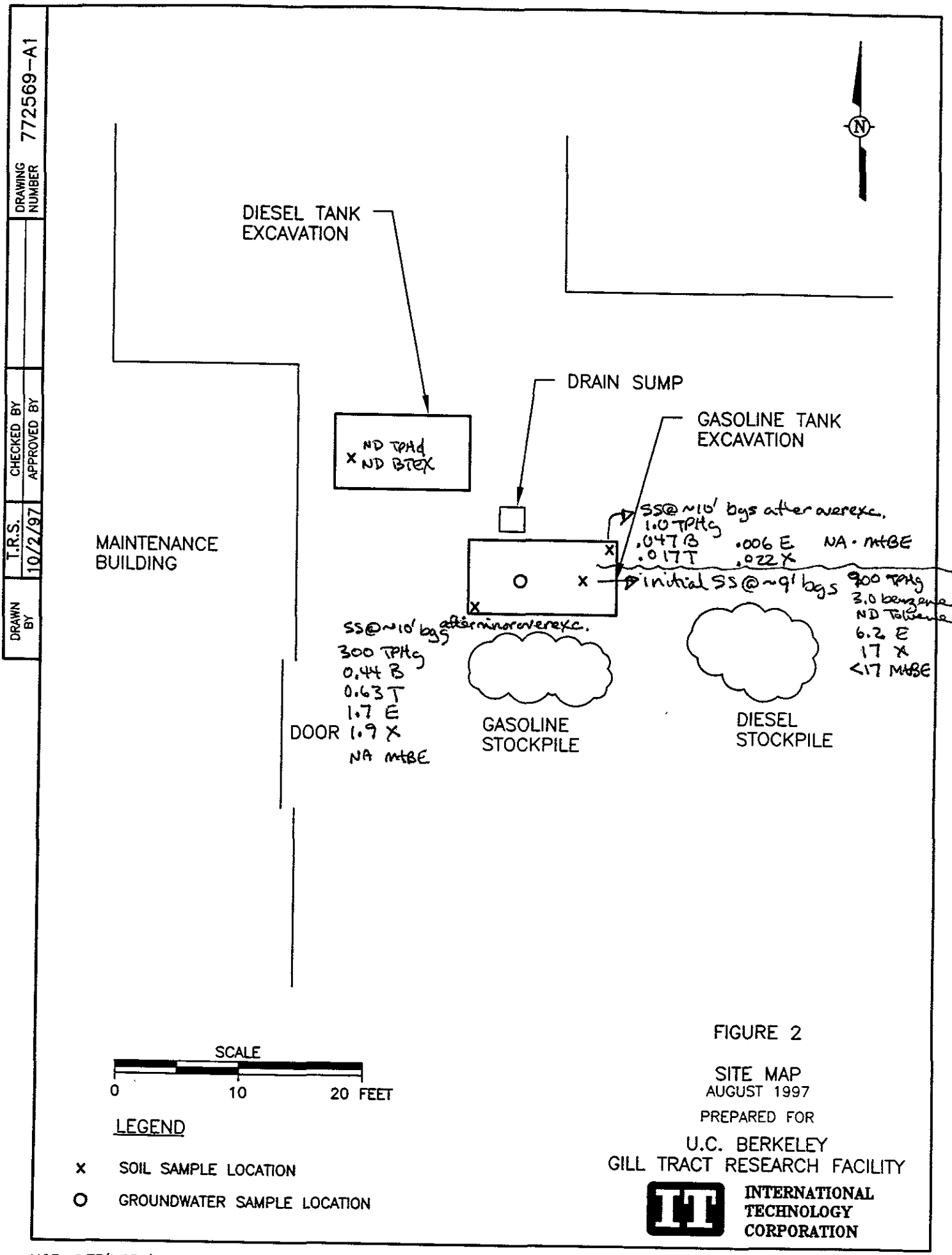


FIGURE 2

SITE MAP
AUGUST 1997

PREPARED FOR

U.C. BERKELEY
GILL TRACT RESEARCH FACILITY

INTERNATIONAL TECHNOLOGY CORPORATION

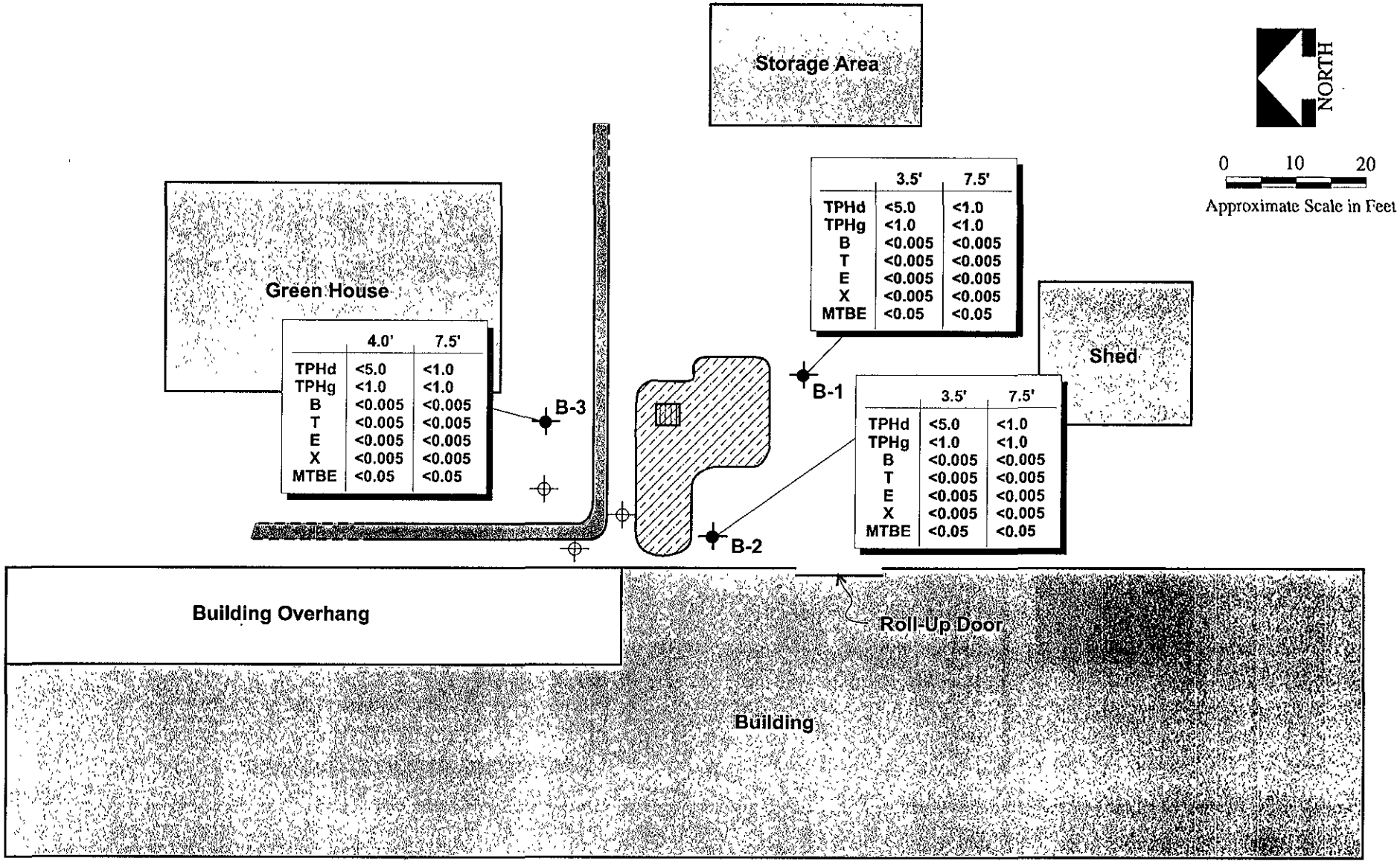
UCB-SITE(UCB1)

TABLE 1
CONFIRMATORY SAMPLING RESULTS
Gill Tract Research Facility
Albany, California
August, 1997

SAMPLE I.D.	TPH-g (mg/kg)	TPH-d (mg/kg)	Total Lead (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/Kg)
	Method 8015	Method 8015	Method 6010	Method 8020	Method 8020	Method 8020	Method 8020	Method 8020
Tank Floor Excavation Samples								
Diesel Floor	ND<1.0	ND<1.0	Not Analyzed	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Gasoline Floor	**900**	Not Analyzed	**9.7**	**3.0**	ND<0.05	**6.2**	**17**	ND<17
Gasoline Floor-SW	**300**	Not Analyzed	Not Analyzed	**0.44**	**0.63**	**1.7**	**1.9**	Not Analyzed
Gasoline Floor-NE	**1.0**	Not Analyzed	Not Analyzed	**0.047**	**0.017**	**0.006**	**0.022**	Not Analyzed
Soil Stockpile Samples								
Diesel Stockpile Composite 1	**8.1**	**230**	**9.6**	ND<1.0	ND<1.0	**0.007**	**0.027**	ND<1.0
Diesel Stockpile 2 Discrete	**8.7**	**130**	Not Analyzed	ND<1.0	ND<1.0	**0.011**	**0.048**	ND<1.0
Gasoline Stockpile Composite	**24**	Not Analyzed	**8.2**	**0.036**	**0.13**	**0.092**	**0.58**	ND<0.4

SAMPLE I.D.	TPH-g ug/L	TPH-d ug/L	Total Lead ug/L	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
	Method 8015	Method 8015	Method 6010	Method 8020	Method 8020	Method 8020	Method 8020	Method 8020
Ground Water Sample								
Excavation Water Sample	**7,400**	**760**	Not Analyzed	**1,200**	**260**	**130**	**370**	Not Analyzed

ND<0.05 = Non-Detect. The chemical constituent is below the Method Detection Limit (MDL).



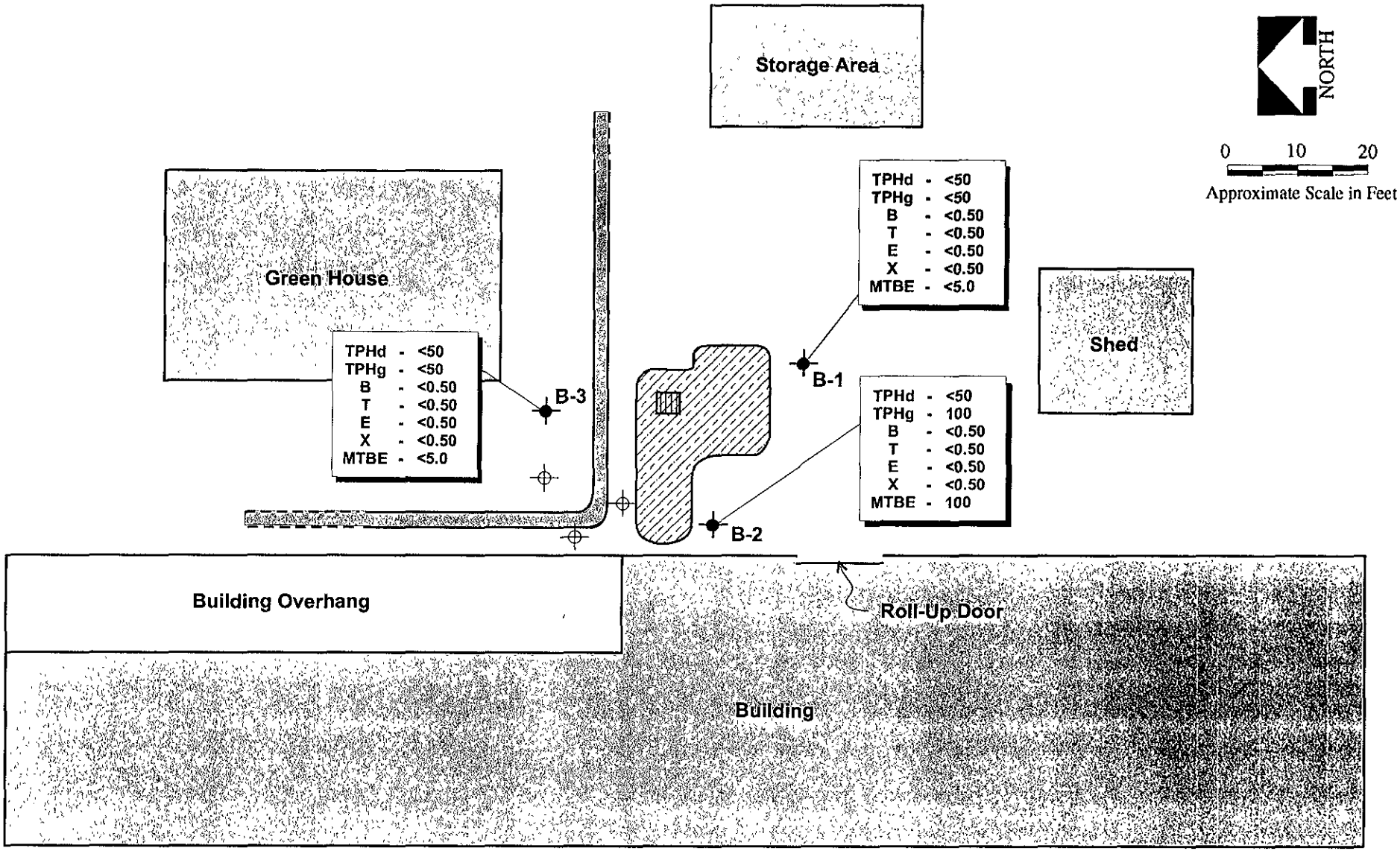
LEGEND

- Former Excavation Area
- Storm Drain
- Steam Line
- Soil Boring Locations
- Attempted Soil Boring Locations

TPHd	Total Petroleum Hydrocarbons as Diesel Fuel, mg/kg
TPHg	Total Petroleum Hydrocarbons as Gasoline, mg/kg
B	Benzene, mg/kg
T	Toluene, mg/kg
E	Ethylbenzene, mg/kg
X	Xylene Isomers, mg/kg
MTBE	Methyl Tert-Butyl Ether, mg/kg

Figure 2 Analytical Results for Soil Samples Collected on February 17, 1998
UC Berkeley-Gill Tract Facility Albany, CA

6434_01



LEGEND

- Former Excavation Area
- Storm Drain
- Steam Line
- Soil Boring Locations
- Attempted Soil Boring Locations

TPHd	Total Petroleum Hydrocarbons as Diesel Fuel, ug/L
TPHg	Total Petroleum Hydrocarbons as Gasoline, ug/L
B	Benzene, ug/L
T	Toluene, ug/L
E	Ethylbenzene, ug/L
X	Xylene Isomers, ug/L
MTBE	Methyl Tert-Butyl Ether, ug/L

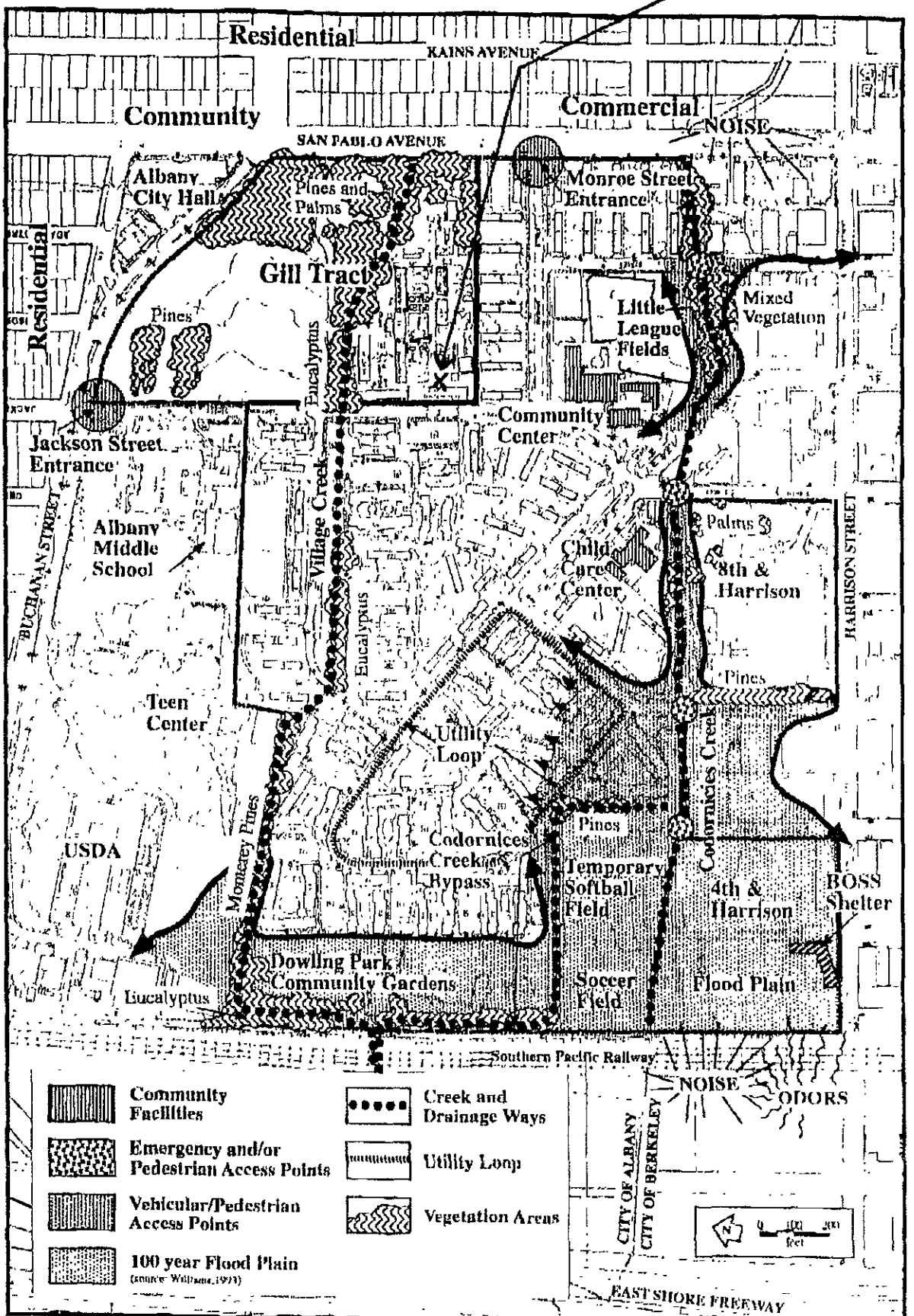
Figure 3 Analytical Results for Groundwater Samples Collected on February 17, 1998
UC Berkeley-Gill Tract Facility Albany, CA

6434_01

SITE FEATURES AND CONSTRAINTS

GILL TRACT USTs

FIGURE 7

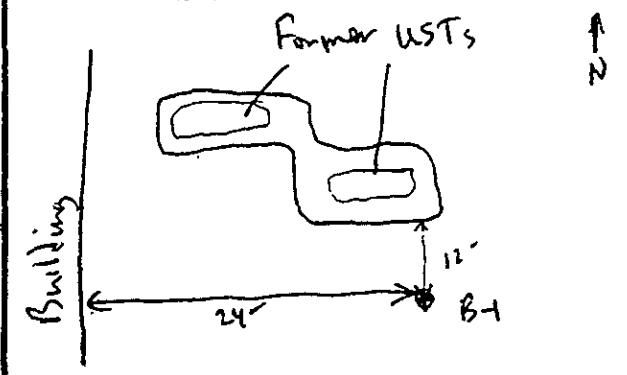


Source: Physical and Environmental Planning PDEC UC B
August 1997

Brown and Caldwell Consultants

BOREHOLE/WELL LO

LOCATION OF BORING



CLIENT	UC Berkeley			BORING NO. B-1
LOCATION	Gill Tract, Albany	JOB NO.	6434-01	SHEET 1 OF 1

	AT TIME OF DRILLING	SECOND	THIRD	FOURTH
WATER LEVEL	10.2'	8.4	8.1'	
TIME	09:30	10:00	12:00	
DATE	2/17/98	2/17/98	2/17/98	

DRILLING	START	FINISH
TIME	09:10	10:00
DATE	2/17/98	2/17/98

WELL CONSTR.	START	FINISH
TIME		
DATE		

DRILLING CONTRACTOR: Cascade

RIG TYPE: Geoprobe

DRILLING METHOD, FLUID USED: Direct Push

SOIL SAMPLING METHOD: Continuous Core

SURFACE ELEV.:

MONITORING INSTRUMENT: PID

SURFACE CONDITIONS: Asphalt

DRILLER: Cascade

DATE:

CHECKED BY:

DATE: 2/17/98

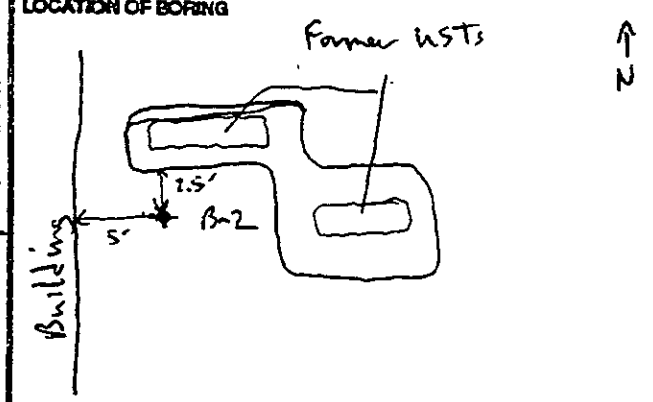
LOGGED BY: J. LeBlanc

WELL CONSTRUCTION: CASING	WELL CONSTRUCTION: ANNULUS	SOIL SAMPLING: SAMPLER TYPE	SOIL SAMPLING: BLOWS/6" INTERVAL	SOIL SAMPLING: INTERVAL SAMPLED	SOIL SAMPLING: RECOVERY	SOIL SAMPLING: ANALYTICAL SAMPLE	DEPTH IN FEET	INSTRUMENT READING (ppm)	ESTIMATED PERCENT: GRAVEL	ESTIMATED PERCENT: SAND	ESTIMATED PERCENT: FINES	MUNSELL COLOR NO.	USCS GROUP SYMBOL	DESCRIPTION: Group Name, Moisture, Color, Consistency, Density, Other
							0							Asphalt 1"
														Gravel Fill
							1	0			100		CL	Clay, moist, dark gray, medium stiff, no odors
							2							
							3	6						Slight degraded gas odor / bay mud odor
							4							
							5	2						
							6							
							7	2						Color change to gray, some mottling, slight gas odor / bay mud odor
							8							
							9	0	80		20	10YR	GC	Clayey-Gravel, wet, gray, no odors
														Gravel size 1"
							10			30	70		CL	Sandy-Clay, moist, yellow-orange, medium stiff, no odors. Sands (fine – coarse).
							11	0						
							12	0						
														Total Depth 12'
							13							
							14							Install temporary casing. Samples 12:15. (TPHg / BTEX / MTBE / TMB's)
							15							
							16							
							17							
							18							
							19							

Brown and Caldwell Consultants

BOREHOLE/WELL LO

LOCATION OF BORING



CLIENT	UC Berkeley
LOCATION	Gill Tract, Albany
JOB NO.	4434-01
BORING NO.	B-2
SHEET	1 OF 1

	AT TIME OF DRILLING	SECOND	THIRD	FOURTH
WATER LEVEL	2.9'	3.4'		
TIME	11:00	12:20		
DATE	2/17/98	2/17/98		

DRILLING	START	FINISH
TIME	10:15	11:00
DATE	2/17/98	2/17/98

WELL CONSTR.	START	FINISH
TIME		
DATE		

DRILLING CONTRACTOR Kuilhang

RIG TYPE Geoprobe

DRILLING METHOD, FLUID USED Direct Push

SOIL SAMPLING METHOD Continuous Core

SURFACE ELEV.

MONITORING INSTRUMENT PID

SURFACE CONDITIONS Asphalt

DRILLER Gregg

DATE

CHECKED BY

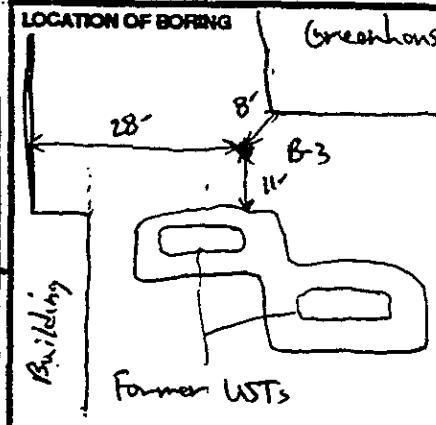
DATE 2/17/98

LOGGED BY Joe LaPlante

WELL CONSTRUCTION: CASING	WELL CONSTRUCTION: ANNULUS	SOIL SAMPLING: SAMPLER TYPE	SOIL SAMPLING: BLOWS/6" INTERVAL	SOIL SAMPLING: INTERVAL SAMPLED / RECOVERY / ANALYTICAL SAMPLE	DEPTH IN FEET	INSTRUMENT READING (ppm)	ESTIMATED PERCENT: GRAVEL	ESTIMATED PERCENT: SAND	ESTIMATED PERCENT: FINES	MUNSELL COLOR NO.	USCS GROUP SYMBOL	DESCRIPTION: Group Name, Moisture, Color, Consistency, Density, Other
					0							Asphalt 1"
												Gravel fill. Hand auger to 2' bgs
					1				100		CL	Clay, moist, dark grey, medium stiff
						∅						no odors
					2							
					3	90						Degraded oil odor
					4					▽ 11		4-8' Sample tube is wet.
					5							
					6							
					7	18						Slightly degraded oil odor
					8							
					9		80		20		GC	Clayey-Gravel, moist, grey, gravels to 1", no odors
						∅			100		CL	Clay, moist, greenish-grey w/ mottling, medium
					10							stiff, no odors
								30	70		CL	Sandy-Clay, moist, yellow-orange, medium stiff
					11							no odors. Sands-fine.
							30	40	30		SC	Clayey-Sand w/ Gravels moist, yellow-orange,
					12	∅						Sands fine-medium. no odors
												Total Depth 12'
					13							
												Install temporary ~~well~~ casing. Sample @
					14							12:25 (TPHg / BTEX / MTBE / TPH-d)
					15							
					16							
					17							
					18							
					19							
					20							

Brown and Caldwell Consultants

BOREHOLE/WELL LO



CLIENT: UC Berkeley
LOCATION: Gill Tract, Albany
JOB NO.: 6434-01
BORING NO.: B-3
SHEET: 1 OF 1

	AT TIME OF DRILLING	SECOND	THIRD	FOURTH
WATER LEVEL	—			
TIME	—			
DATE	—			

DRILLING: START TIME 12:50, FINISH TIME 13:30; START DATE 2/17/98, FINISH DATE 2/17/98
WELL CONSTR.: START TIME, FINISH TIME; START DATE, FINISH DATE

DRILLING CONTRACTOR: Kuilhang
RIG TYPE: Geoprobe
DRILLING METHOD, FLUID USED: Direct Push
SOIL SAMPLING METHOD: Continuous Core
SURFACE ELEV.:
MONITORING INSTRUMENT: PID
SURFACE CONDITIONS: Asphalt

DRILLER: George
DATE:
CHECKED BY:
DATE: 2/17/98
LOGGED BY: J. Laplante

WELL CONSTRUCTION: CASING	WELL CONSTRUCTION: ANNULUS	SOIL SAMPLING: SAMPLER TYPE	SOIL SAMPLING: BLOWS/6" INTERVAL	SOIL SAMPLING: INTERVAL SAMPLED	SOIL SAMPLING: RECOVERY	SOIL SAMPLING: ANALYTICAL SAMPLE	DEPTH IN FEET	INSTRUMENT READING (ppm)	ESTIMATED PERCENT: GRAVEL	ESTIMATED PERCENT: SAND	ESTIMATED PERCENT: FINES	MUNSELL COLOR NO.	USCS GROUP SYMBOL	DESCRIPTION: Group Name, Moisture, Color, Consistency, Density, Other
							0							Asphalt 1"
														Gravel fill
							1						SW	Sand, moist, clear, no odor — Fill
							2					▽		Wet Sands
							3						CL	Clay, moist, dark grey, medium stiff, no od
							4							
							5	Ø						
							6							
							7	Ø						
							8							
							9						?	Flowing sands make it impossible to sample B-12' bgs. Drive a probe to 12' bgs, expose 4 feet of screen (8-12' bgs).
							10							
							11							
							12							
							13							Total Depth 12'
							14							Collect samples 14:00 through exposed screen (TPHg/BTEX/MTBE/TVHid). (Slow producer)
							15							
							16							
							17							
							18							
							19							
							20							