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

JW

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

September 14, 2006

Ms. Monique Durham
AT&T Services, Inc.
308 South Akard Street, Room 900
Dallas, TX 75202

Subject: Fuel Leak Site Case Closure, SBC, 1612 Solano Avenue, Albany, CA 94607; Case No. RO0002871

Dear Ms. Durham:

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 Health (ACEH) 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:

- Residual concentrations of up to 160 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as diesel remain in soil at the site.
- Residual concentrations of up to 770 micrograms per liter (µg/L) of Total Petroleum Hydrocarbons as diesel remain in groundwater at the site.

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

Sincerely,

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

Enclosures:
1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

City of Albany Planning and Zoning Department
1000 San Pablo Avenue
Albany, CA 94706
(w/enc)

Mr. Robert Delnagro (w/enc)
Shaw Environmental, Inc.
4005 Port Chicago Highway
Concord, CA 94520

Jerry Wickham (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)

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September 14, 2006

Ms. Monique Durham
AT&T Services, Inc.
308 South Akard Street, Room 900
Dallas, TX 75202

REMEDIAL ACTION COMPLETION CERTIFICATE

Dear Ms. Durham:

Subject: Fuel Leak Site Case Closure, SBC, 1612 Solano Avenue, Albany, CA 94607; Case No. RO0002871

This letter confirms the completion of a 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 tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

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

Sincerely,

Amir Levi
For

William Pitcher
Interim Director
Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: September 14, 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: SBC		
Site Facility Address: 1612 Solano Avenue, Albany, CA 94607		
RB Case No.: 01-3549	Local Case No.:	LOP Case No.: RO0002871
URF Filing Date: 07/30/2004	SWEEPS No.: ---	APN: 65-2625-26

Responsible Parties	Addresses	Phone Numbers
Monique Durham, AT&T Services, Inc.	308 South Akard, Room 900, Dallas, Texas, 75202	

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	4,000 gallons	Diesel	Removed	05/2004
Piping			Removed	05/2004

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No holes, cracks, or other signs of failure were observed in the tanks during removal.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? No	Number: 0	Proper screened interval? --
Highest GW Depth Below Ground Surface: 10.5	Lowest Depth: 19	Flow Direction: Assumed to west based on regional groundwater flow.
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells are located within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: El Cerrito Creek is approximately 2,500 feet north of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
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	1 – 4,000 gallon tank	Transported to Ecology Control Industries in Richmond, CA for disposal	05/14/2004
Piping	Not reported	Transported to Ecology Control Industries in Richmond, CA for disposal	05/14/2004
Free Product	None	--	--
Soil	--	Soil was used for excavation backfill	05/2004
Groundwater	--	Not encountered during tank removal	--

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 7 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	NA	NA	NA	NA
TPH (Diesel)	160	160	770	770
Oil and Grease	NA	NA	NA	NA
Benzene	<0.005	<0.005	<0.5	<0.5
Toluene	<0.005	<0.005	3.7	3.7
Ethylbenzene	<0.005	<0.005	0.64	0.64
Xylenes	<0.005	<0.005	2.6	2.6
Heavy Metals	NA	NA	NA	NA
MTBE	<0.005(1)	<0.005(1)	<0.5(2)	<0.5(2)
Other (8240/8270)	NA	NA	NA	NA

(1) MTBE <0.005; TAME, ETBE, DIPE, TBE, EDB, and EDC <0.005 TO <0.05 ppm.
(2) MTBE <0.5 ppb; TAME, ETBE, DIPE, TBE, EDB, and EDC <0.5 to 5 ppb.

Site History and Description of Corrective Actions:

One 4,000-gallon UST containing diesel fuel that was used for emergency power generation was removed in a May 2004 and replaced with a 5,000-gallon UST. Two soil samples were collected from the base of the excavation at depths of 13 and 14 feet below ground surface (bgs) and one soil sample was collected from the soil stockpile. Groundwater was not encountered in the excavation. Total petroleum hydrocarbons as diesel were detected in the excavation soil samples at 1.4 and 160 ppm, respectively, and in the soil stockpile sample at 1.6 ppm. BTEX, fuel oxygenates, and lead scavengers were not detected in the soil samples. The excavation was backfilled with the stockpiled soils. The tanks appeared to be in good condition and no staining or odors were observed in the excavation during tank removal.

Five direct push soil borings were advanced at the site on May 15, 2006 in order to characterize the extent of fuel hydrocarbons. The borings were advanced to depths of 15 to 20 feet bgs; three of the borings were advanced into weathered bedrock, which was encountered at a depth of approximately 15 to 17 feet bgs. The soil borings were continuously cored within native soils. Stained soils with a petroleum odor were observed from approximately 11 to 11.5 feet bgs in boring B-1; petroleum contamination was not observed in any of the remaining soil borings. The maximum concentration of TPHd detected in soil samples from the five borings was 98 ppm, detected at a depth of 11 feet bgs in boring B-1. BTEX, fuel oxygenates, and lead scavengers were not detected in any of the soil samples. Grab groundwater samples were collected from three of the five soil borings; the remaining two soil borings did not yield groundwater. The reported concentrations of TPHd in groundwater ranged from <1 ppb to 770 ppb. Benzene, fuel oxygenates, and lead scavengers were not detected in the groundwater samples. Ethylbenzene, toluene, and xylenes were detected in groundwater sample B-3W at concentrations of 0.64, 3.7, and 2.6 ppb, respectively.

The results of the investigation indicate that there is a shallow, perched groundwater zone within the former UST excavation with a deeper water-bearing zone at depths of 19 feet bgs or greater. TPHd was detected in the groundwater sample collected from the perched zone at a concentration of 770 ppb, which exceeds the San Francisco RWQCB Environmental Screening Level of 100 ppb (Water Board 2005). The groundwater sample collected downgradient of the former UST excavation contained TPHd at a concentration of 54 ppb (below the ESL). The data appear to indicate the limited lateral migration of TPHd has occurred within shallow groundwater, possibly within a discontinuous sand and gravel layer, but the extent of significant contamination appears to be limited largely to the area of the former UST excavation.

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: ---	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Residual TPH as diesel was detected in groundwater at a concentration of 770 µg/L, which exceeds the ESL for TPH as diesel in drinking water. The TPH as diesel in groundwater appears to be limited to the area of the former USTs, is not expected to affect downgradient receptors, and can be expected to biodegrade over time due to natural attenuation processes.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available 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: [signature]	Date: 08/31/06
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: [signature]	Date: 08/31/06

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:
Signature: Cherie McCaulou	Date: 9/8/06

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: No wells installed on site.	Number Decommissioned: NA	Number Retained: NA
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: Jerry Wickham		Date: 09/08/06

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Soil Sample Analytical Data, UST Removal – May 14, 2004; Soil Sample Analytical Data, Soil Borings – May 15, 2006
4. Groundwater Sample Analytical Data, Soil Borings – May 15, 2006
5. Soil Analytical Data Table
6. Groundwater Analytical Data Table
7. Boring Logs

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.

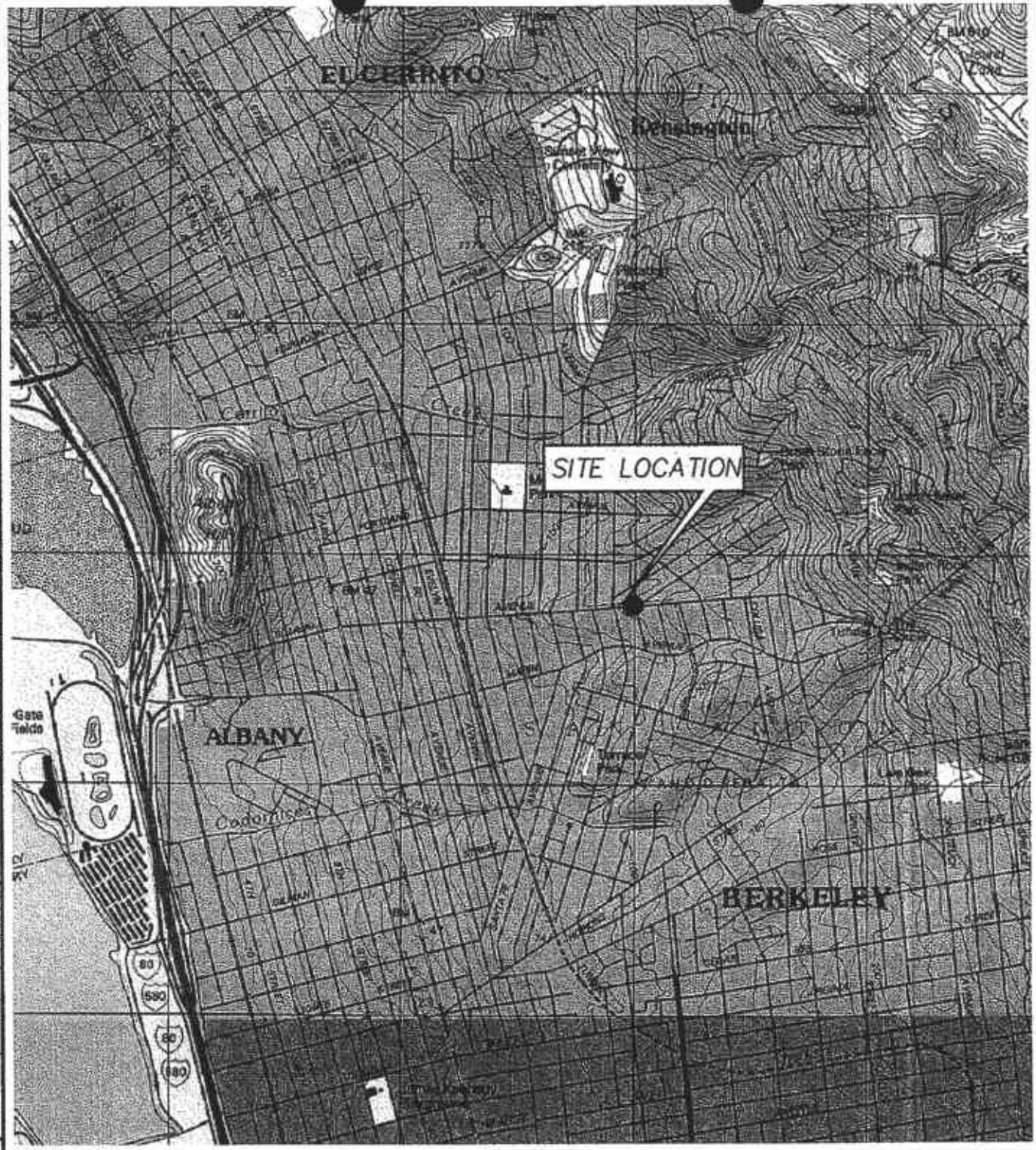

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
-	---	Concord	RB	7/8/04	AW	6.29.05	RD	6.29.05	115901-A44

REFERENCE:
"TOPO!" 7.5' QUADRANGLE OF
RICHMOND, CALIFORNIA, 1993

SCALE
0 2000 4000 FEET

N

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Shaw E&I, Inc.

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AT&T
DALLAS, TEXAS

FIGURE 1

SITE VICINITY MAP
AT&T FACILITY
1612 SOLANO AVENUE
ALBANY, CALIFORNIA

ATTACHMENT 1

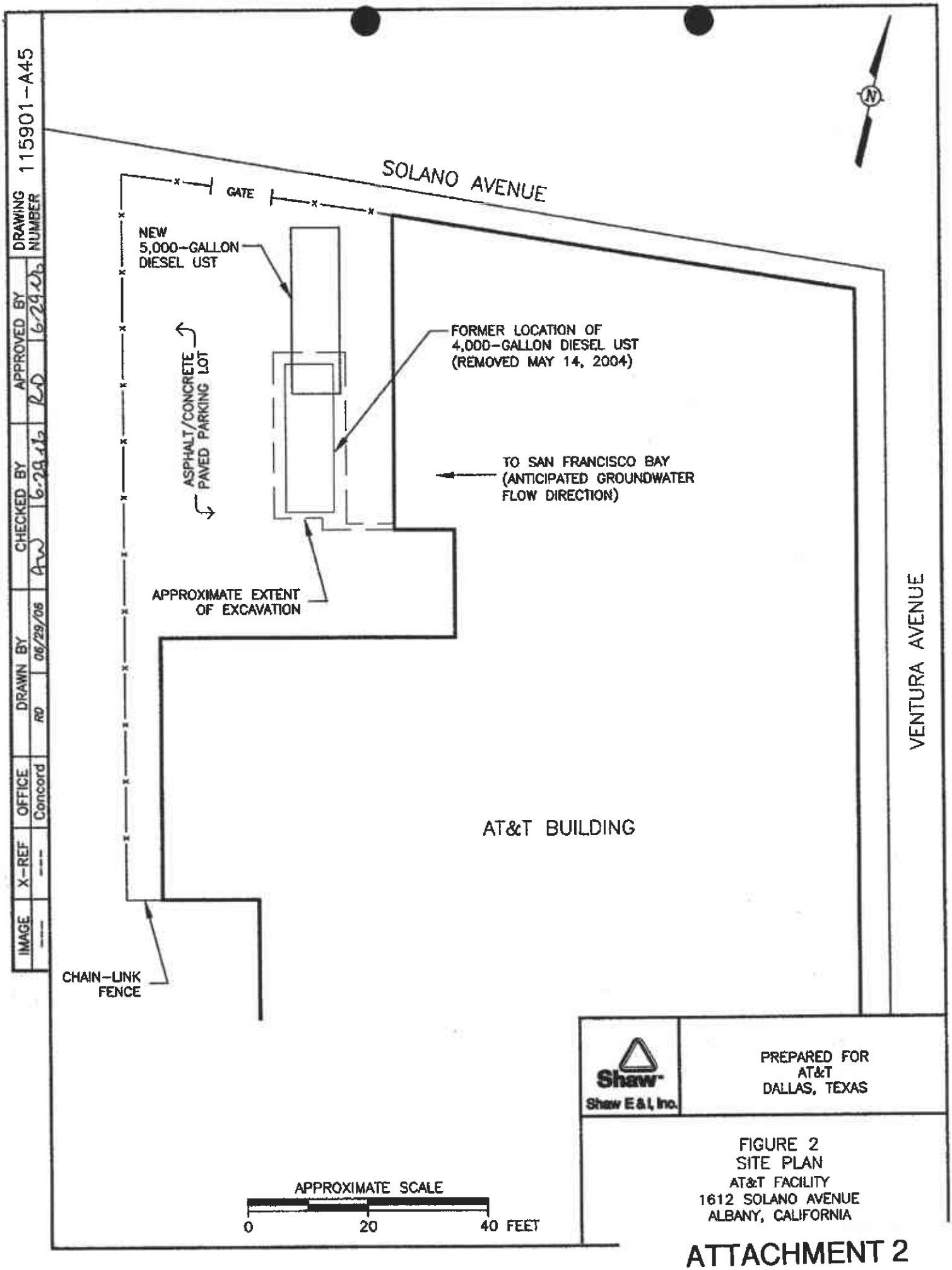
SOLANO AVENUE
GATE
NEW
5,000-GALLON
DIESEL UST
FORMER LOCATION OF
4,000-GALLON DIESEL UST
(REMOVED MAY 14, 2004)
ASPHALT/CONCRETE
PAVED PARKING LOT
TO SAN FRANCISCO BAY
(ANTICIPATED GROUNDWATER
FLOW DIRECTION)
APPROXIMATE EXTENT
OF EXCAVATION
VENTURA AVENUE
AT&T BUILDING
CHAIN-LINK
FENCE
N
APPROXIMATE SCALE
0
20
40 FEET
IMAGE
X-REF
OFFICE
Concord
DRAWN BY
RD
06/29/06
CHECKED BY
APPROVED BY
6/29/06
DRAWING NUMBER
115901-A45
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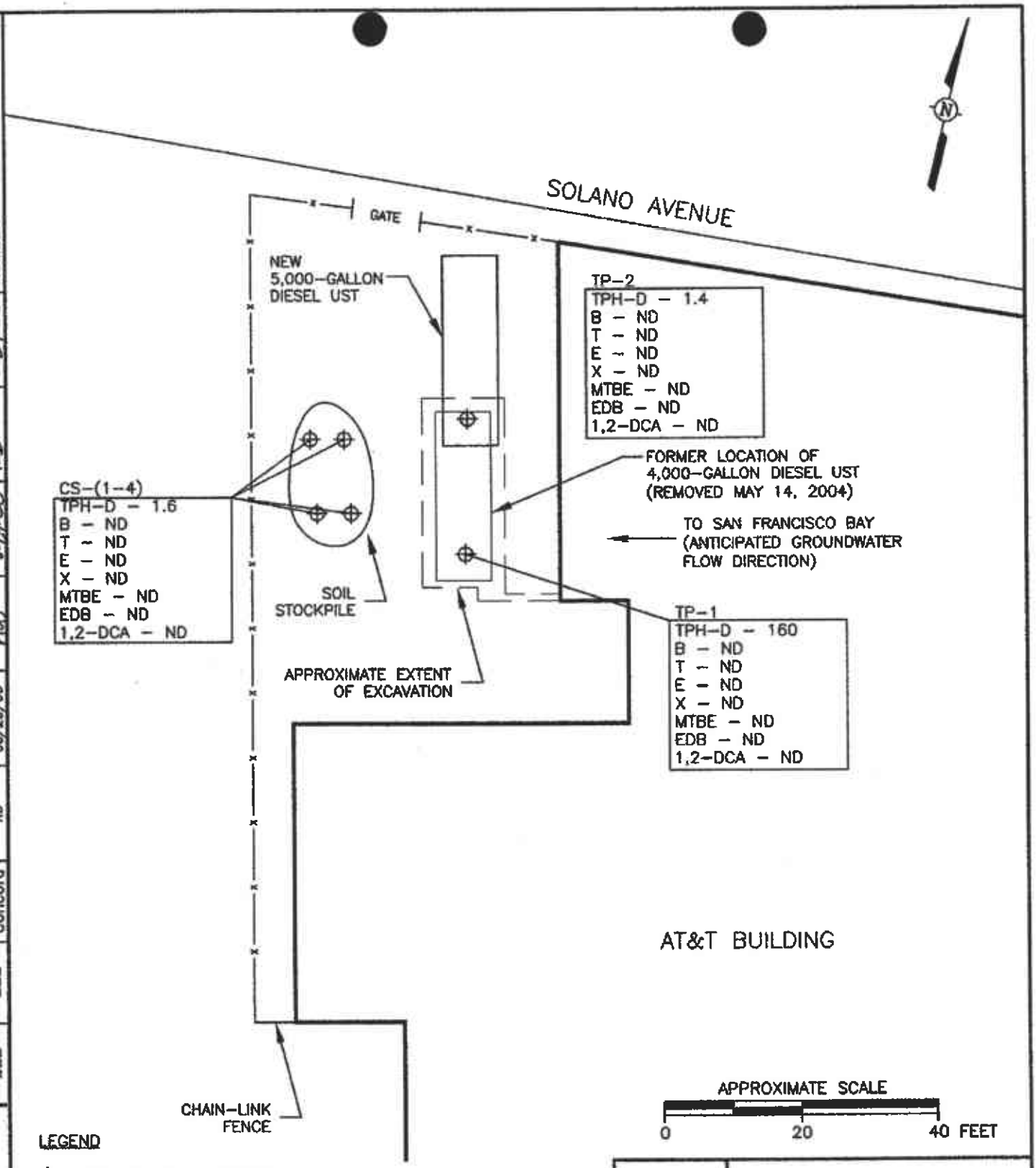
FIGURE 2
SITE PLAN
AT&T FACILITY
1612 SOLANO AVENUE
ALBANY, CALIFORNIA
ATTACHMENT 2



LEGEND

⊕ SOIL SAMPLE LOCATION

TPH-D – TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B – BENZENE
T – TOLUENE
E – ETHYLBENZENE
X – XYLENES
MTBE – METHYL TERTIARY BUTYL ETHER
EDB – 1,2-DIBROMOETHANE
1,2-DCA – 1,2-DICHLOROETHANE
ND – NOT DETECTED

ALL RESULTS REPORTED IN PARTS PER MILLION

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DALLAS, TEXAS

FIGURE 3
SOIL SAMPLE ANALYTICAL DATA
UST REMOVAL – MAY 14, 2004
AT&T FACILITY
1612 SOLANO AVENUE
ALBANY, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	Concord	RD 06/29/06	[illegible] 6-29-06	RD 6-29-06	115901-A46

ATTACHMENT 3

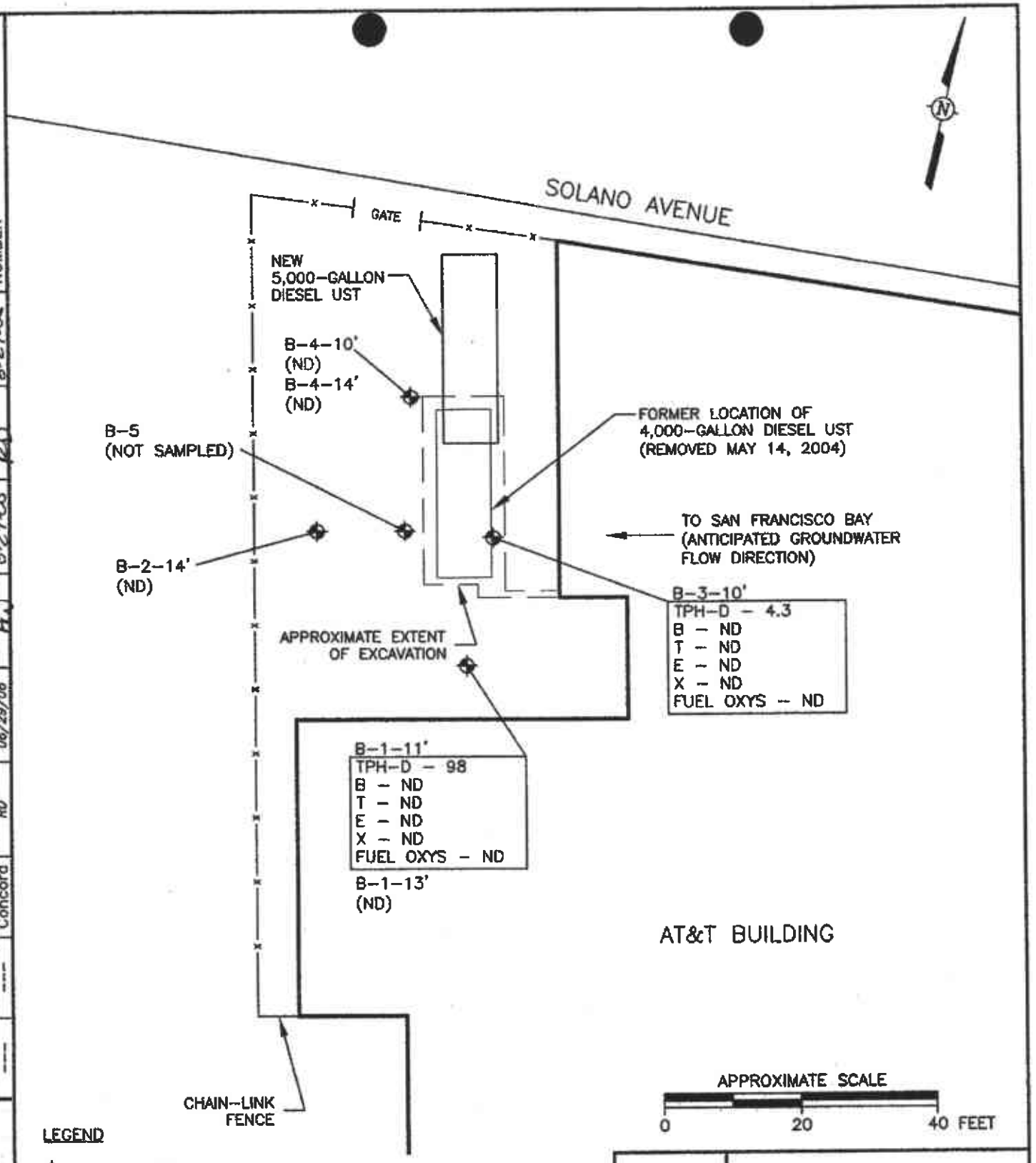

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	Concord	RD 06/29/06	AJ 6-29-06	RD 6-29-06	115901-A47

LEGEND

◆ SOIL BORING LOCATION

TPH-D – TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B – BENZENE
T – TOLUENE
E – ETHYLBENZENE
X – XYLENES
FUEL OXYS – METHYL TERTIARY BUTYL ETHER, TERT-AMYLMETHYL ETHER, ETHYL TERT-BUTYL ETHER, TERT-BUTANOL, 1,2-DIBROMOETHANE, AND 1,2-DICHLOROETHANE
ND – NOT DETECTED

ALL RESULTS REPORTED IN PARTS PER MILLION

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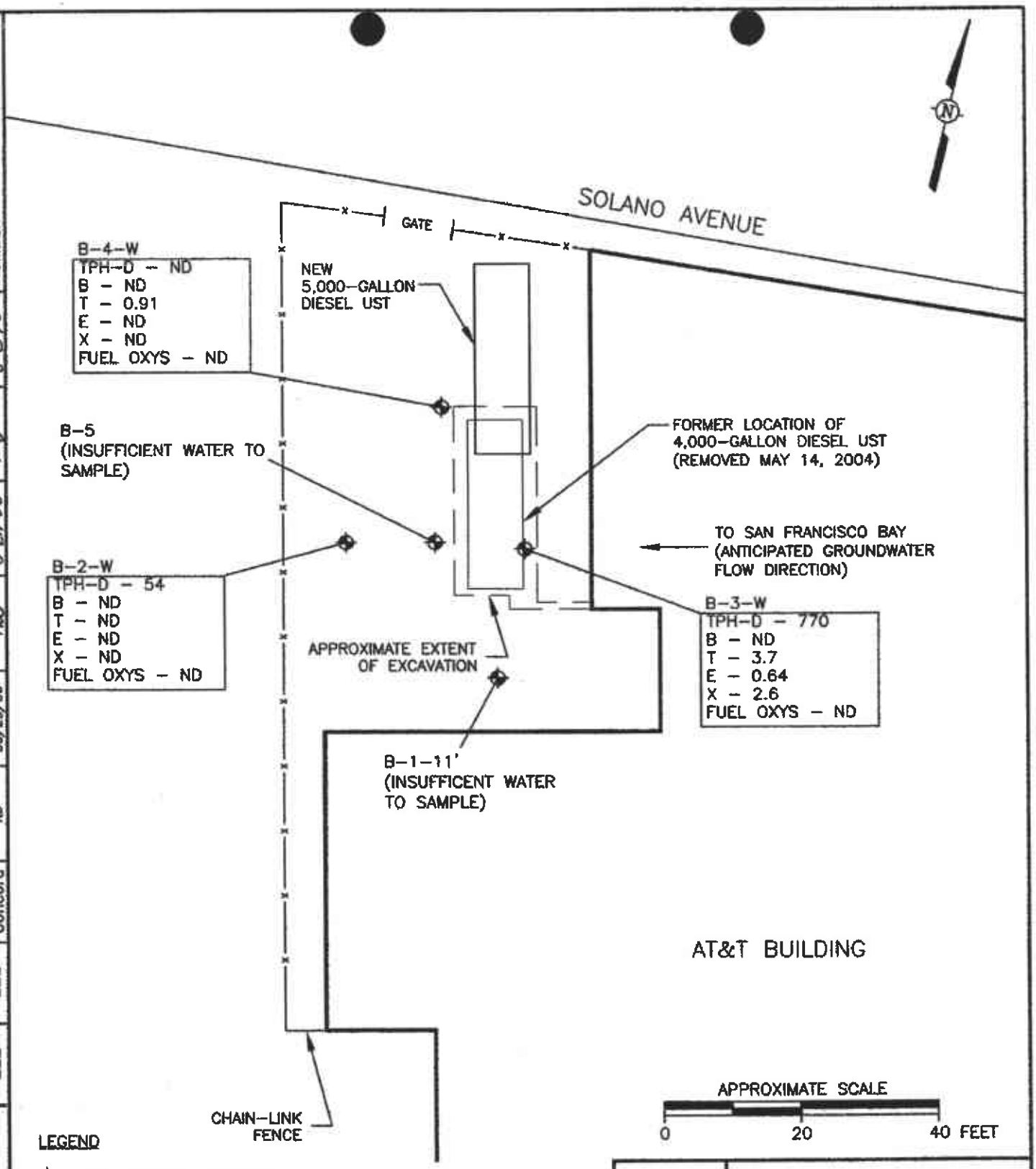
FIGURE 4
SOIL SAMPLE ANALYTICAL DATA
SOIL BORINGS – MAY 15, 2006
AT&T FACILITY
1612 SOLANO AVENUE
ALBANY, CALIFORNIA



TPH-D – TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B – BENZENE
T – TOLUENE
E – ETHYLBENZENE
X – XYLENES
FUEL OXYS – METHYL TERTIARY BUTYL ETHER, TERT-AMYLMETHYL ETHER, ETHYL TERT-BUTYL ETHER, TERT-BUTANOL, 1,2-DIBROMOETHANE, AND 1,2-DICHLOROETHANE
ND – NOT DETECTED

ALL RESULTS REPORTED IN PARTS PER BILLION

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FIGURE 5
GROUNDWATER SAMPLE ANALYTICAL DATA
SOIL BORINGS – MAY 15, 2006
AT&T FACILITY
1612 SOLANO AVENUE
ALBANY, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	---	Concord	RD	06/29/06	AW	6-29-06	KD	6-29-06	115901-A48

ATTACHMENT 4

TABLE 1
Summary of Soil Sample Analytical Data
AT&T Facility
1612 Solano Avenue
Albany, California

Sample I.D.	Sample Location	Sample Depth (bsg)	Date Collected	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	EDB	1,2-DCA	TAME, ETBE, DIPE, TBA
				(all results reported in parts per million)								
TP-1	tank excavation	14 feet	05/14/04	**160**	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	NA
TP-2	tank excavation	13 feet	05/14/04	**1.4**	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	NA
CS-1-4	soil stockpile	---	05/14/04	**1.6**	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	NA
B-1-11'	soil boring B-1	11 feet	05/15/06	**98**	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
B-1-13'	soil boring B-1	13 feet	05/15/06	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
B-2-14'	soil boring B-2	14 feet	05/15/06	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
B-3-10'	soil boring B-3	10 feet	05/15/06	**4.3**	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
B-4-10'	soil boring B-4	10 feet	05/15/06	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
B-4-14'	soil boring B-4	14 feet	05/15/06	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.05}$
San Francisco RWQCB ESLs for Deep Soils (>3 Meters BSG), Groundwater is a Current or Potential Source of Drinking Water, Commercial/Industrial Land Use Only				**100**	0.044	2.9	3.3	2.3	0.023	0.00033*	0.0045*	TBA - 0.073

ATTACHMENT 5

TABLE 1
Summary of Soil Sample Analytical Results
AT&T Facility
1612 Solano Avenue
Albany, California

Notes:
bsg - below surface grade
TPH-D - total petroleum hydrocarbons as diesel
MTBE - methyl tertiary butyl ether
EDB - 1,2-dibromoethane
1,2-DCA - 1,2-dichloroethane
TAME - tert-amylmethyl ether
ETBE - ethyl tert-butyl ether
DIPE - di-isopropyl ether
TBA - tert-butanol
ND_x - not detected above "x" laboratory detection limits
NA - not analyzed
* - ESL is higher than reported detection limit
San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs)
from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*
Volume 1: Summary Tier 1 Lookup Tables, Interim Final - February 2005
TPH-D ESL compared to TPH (middle distillate) value

TABLE 2
Summary of Groundwater Sample Analytical Data
AT&T Facility
1612 Solano Avenue
Albany, California

Sample I.D.	Sample Location	Sample Depth (bsg)	Date Collected	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	EDB	1,2-DCA	TAME, ETBE, DIPE, TBA
				(all results reported in parts per billion)								
B-2-W	soil boring B-2	11.25 feet	05/15/06	**54**	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5\text{-}5.0}$
B-3-W	soil boring B-3	10.5 feet	05/15/06	**770**	$ND_{0.5}$	**3.7**	**0.64**	**2.6**	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5\text{-}5.0}$
B-4-W	soil boring B-4	19 feet	05/15/06	ND_{50}	$ND_{0.5}$	**0.91**	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5\text{-}5.0}$
San Francisco RWQCB ESLs for Deep Soils (>3 Meters BSG), Groundwater is a Current or Potential Source of Drinking Water, Commercial/Industrial Land Use Only				**100**	1.0	40	30	20	5.0	0.05*	0.5	TBA - 12

Notes:
bsg - below surface grade
TPH-D - total petroleum hydrocarbons as diesel
MTBE - methyl tertiary butyl ether
EDB - 1,2-dibromoethane
1,2-DCA - 1,2-dichloroethane
TAME - tert-amylmethyl ether
ETBE - ethyl tert-butyl ether
DIPE - di-isopropyl ether
TBA - tert-butanol
ND_x - not detected above "x" laboratory detection limits
NA - not analyzed
* - ESL is higher than reported detection limit
San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater Volume 1: Summary Tier 1 Lookup Tables, Interim Final - February 2005*
TPH-D ESL compared to TPH (middle distillate) value

ATTACHMENT 6

BORING NO. B-

SURF. ELEV. _____ SURF. ELEV. _____
FIELD GEOLOGIST D. DELGADO DATE BEGAN 05/15/06
CHECKED BY D. DELGADO DATE FINISHED 05/15/06
APPROVED BY R. DELNAGRO SAMPLE DIA. _____

DEPTH IN FEET	SAMPLE TYPE	DRILLING REMARKS	ASTM D2488-00	PROFILE	
0					Concrete 0.5'
			fill		ENGINEERED FILL (sand/gravel) 4.5'
5			CL		SILTY CLAY; mottled dark brown/tan, stiff, damp, 70–80% clay, 15–25% silt, 5–10% fine-grained sand. 8.0'
			CL		CLAY; brown, firm, damp, 80–90% clay, 10–20% silt, medium plasticity. 9.0'
10			CL		SILTY CLAY; mottled dark brown/tan, stiff, damp, 70–80% clay, 15–25% silt, 5–10% fine-grained sand. 11.0'
		B-1-11'	SP		SAND with GRAVEL; reddish-brown, medium-dense, damp, 70–80% fine-grained sand, 10–15% poorly graded gravel, 5–10% clay, hydrocarbon staining/odor noted from 11–11.5 ft. 12.0'
		B-1-13'	ML		SANDY SILT; reddish brown with black mottling; firm, damp, 50–80% silt, 20–30% fine-grained sand, 10–20% poorly sorted gravel. 17.0'
15			rock		WEATHERED BEDROCK, reddish-brown, damp, very hard drilling. 20.0'
20					REFUSAL AT 20.0' BSG
25					
30					
35					

DRILLER : RYAN SAYPHONE
DRILLING CO. : VIRONEX
DRILLING METHOD : DIRECT PUSH
SAMPLING METHOD :
PROJECT : ATT-ALBANY
LOCATION : 1612 SOLANO AVE., ALBANY
PROJECT NO. : 115901

DRAWN BY	RD	CHECKED BY	—	DRAWING NO. : 115901-A49
DATE	05/29/06	APPROVED BY	—	

Shaw™

ATTACHMENT 7

BORING NO. B-[redacted]

SURF. ELEV. _____ SURF. ELEV. _____
FIELD GEOLOGIST D. DELGADO DATE BEGAN 05/15/06
CHECKED BY D. DELGADO DATE FINISHED 05/15/06
APPROVED BY R. DELNAGRO SAMPLE DIA. _____

DEPTH IN FEET	SAMPLE TYPE	DRILLING REMARKS	ASTM D2488-00	PROFILE	
0					Asphalt 0.5'
			fill		ENGINEERED FILL (sand/gravel) 3.0'
			OH		CLAY; organic, dark brown to black, moist, soft. 5.5'
5			CL		SILTY CLAY; mottled dark brown/tan, stiff, damp, 70–80% clay, 15–25% silt, 5–10% fine-grained sand. 7.0'
			CL		CLAY; brown, firm, damp, 80–90% clay, 10–20% silt, medium plasticity. 8.0'
			CL		SILTY CLAY; mottled dark brown/tan, stiff, damp, 70–80% clay, 15–25% silt, 5–10% fine-grained sand. 10.5'
10			SP		▽ Groundwater stabilized at 11.25 ft. SAND with GRAVEL; reddish-brown, medium-dense, damp, 70–80% fine-grained sand, 10–15% poorly graded gravel, 5–10% clay. 13.0'
		B-2-14'	ML		SANDY SILT; reddish brown with black mottling; firm, damp, 50–60 % silt, 20–30% fine-grained sand, 10–20% poorly sorted gravel. ▽ Initial groundwater at 14.5 ft.; observed rising in casing. 15.0'
15					END OF BORING AT 15.0' BSG
20					
25					
30					
35					

DRILLER : RYAN SAYPHONE
DRILLING CO. : VIRONEX
DRILLING METHOD : DIRECT PUSH
SAMPLING METHOD :
PROJECT : ATT–ALBANY
LOCATION : 1612 SOLANO AVE., ALBANY
PROJECT NO. : 115901

DRAWN BY	RD	CHECKED BY		DRAWING NO. : 115901-A50
DATE	06/29/06	APPROVED BY		

Shaw™
Shaw E & I, Inc.

BORING NO. B-[redacted]

SURF. ELEV. _____ SURF. ELEV. _____
FIELD GEOLOGIST D. DELGADO DATE BEGAN 05/15/06
CHECKED BY D. DELGADO DATE FINISHED 05/15/06
APPROVED BY R. DELNAGRO SAMPLE DIA. _____

DEPTH IN FEET	SAMPLE TYPE	DRILLING REMARKS	ASTM D2488-00	PROFILE	
0					Asphalt 0.5'
			fill		ENGINEERED FILL (sand/gravel) 2.0'
5			fill		ENGINEERED FILL (sand, within former UST excavation) 9.5'
10		B-3-10'	CL		SILTY CLAY: mottled dark brown/tan, stiff, damp, 70-80% clay, 15-25% silt, 5-10% fine-grained sand. 10.5'
			SP		▽ Groundwater at 10.5 ft. SAND with GRAVEL: reddish-brown, medium-dense, damp, 70-80% fine-grained sand, 10-15% poorly graded gravel, 5-10% clay. 15.0'
15					END OF BORING AT 15.0' BSG
20					
25					
30					
35					

DRILLER : RYAN SAYPHONE
DRILLING CO. : VIRONEX
DRILLING METHOD : DIRECT PUSH
SAMPLING METHOD :
PROJECT : ATT-ALBANY
LOCATION : 1612 SOLANO AVE., ALBANY
PROJECT NO. : 115901

DRAWN BY	RD	CHECKED BY	—
DATE	06/29/06	APPROVED BY	—

DRAWING NO. : 115901-A51

Shaw™
Shaw E & I, Inc.

BORING NO. B-4

SURF. ELEV. _____ SURF. ELEV. _____
FIELD GEOLOGIST D. DELGADO DATE BEGAN 05/15/06
CHECKED BY D. DELGADO DATE FINISHED 05/15/06
APPROVED BY R. DELNAGRO SAMPLE DIA. _____

DEPTH IN FEET	SAMPLE TYPE	DRILLING REMARKS	ASTM D2488-00	PROFILE	
0					Asphalt/Engineered Fill (sand, gravel) 0.5'
			OH		CLAY; organic, dark brown to black, moist, soft. 4.0'
5			CL		SILTY CLAY; mottled dark brown/tan, stiff, damp, 70–80% clay, 15–25% silt, 5–10% fine-grained sand. Gravel layer noted from 7–7.5 ft. 13.0'
10	X	B-4-10'			
			ML		SANDY SILT; reddish brown with black mottling; firm, damp, 50–60 % silt, 20–30% fine-grained sand, 10–20% poorly sorted gravel. 15.0'
15	X	B-4-14'	rock		WEATHERED BEDROCK, reddish-brown, dry, very hard drilling.
		Groundwater remained at 19.0 ft. after 1.5 hours.			▽ Groundwater at 19.0 ft. 20.0'
20					END OF BORING AT 20.0' BSG
25					
30					
35					

DRILLER : RYAN SAYPHONE
DRILLING CO. : VIRONEX
DRILLING METHOD : DIRECT PUSH
SAMPLING METHOD :
PROJECT : ATT–ALBANY
LOCATION : 1612 SOLANO AVE., ALBANY
PROJECT NO. : 115901

DRAWN BY	RD	CHECKED BY	—	DRAWING NO. : 115901-A52
DATE	08/29/06	APPROVED BY	—	

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Shaw E & I, Inc.

BORING NO. B-05

SURF. ELEV. _____ SURF. ELEV. _____
FIELD GEOLOGIST D. DELGADO DATE BEGAN 05/15/06
CHECKED BY D. DELGADO DATE FINISHED 05/15/06
APPROVED BY R. DELNAGRO SAMPLE DIA. _____

DEPTH IN FEET	SAMPLE TYPE	DRILLING REMARKS	ASTM D2488-00	PROFILE	
0	NO SOIL SAMPLES COLLECTED		NO SOIL SAMPLES COLLECTED	NO SOIL SAMPLES COLLECTED	Hydropunch screen set from 10–14 ft. Screen remained open for 2.25 hours. Insufficient water infiltrated to sample.
5					
10					Hydropunch screen set from 17–20 ft. Screen remained open for 2 hours. Insufficient water infiltrated to sample.
15					20.0'
20					END OF HYDROPUNCH AT 20.0' BSG
25					
30					
35					

DRILLER : RYAN SAYPHONE
DRILLING CO. : VIRONEX
DRILLING METHOD : DIRECT PUSH
SAMPLING METHOD :
PROJECT : ATT–ALBANY
LOCATION : 1612 SOLANO AVE., ALBANY
PROJECT NO. : 115901

DRAWN BY	RD	CHECKED BY	—	DRAWING NO. : 115901-A53
DATE	06/29/06	APPROVED BY	—	

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Shaw E & I, Inc.