

CITY OF HOUSTON



**PUBLIC WORKS AND
ENGINEERING
PLANNING & DEVELOPMENT
DIVISION**

EXECUTIVE SUMMARY

Project Overview

The designated property is located at 7405 Almeda Road in Houston, Harris County, Texas. The designated property consists of approximately 5.5 acres of land comprised of a former office/warehouse property (7405 Almeda Tract) and a portion of a ± 28-acre undeveloped tract (Pawnee Tract) located to the east. The northern and southern portions of the designated property are separated by the Hepburn Street right of way. The eastern and western portions of the designated property are separated by the I&N Rail Road right of way. The current owner of the designated property is the Board of Regents of the University of Texas System (UT System). Paved parking areas and building foundations associated with former office/warehouse structures are currently located on the northwestern portion of the designated property (the 7405 Almeda Tract). Approximately 25 percent of the designated property is covered with the building foundations and parking areas and the remaining portion of the designated property is currently undeveloped. The properties to the north of the designated property are commercial and vacant land. Properties to the west are Almeda Road then retail and multi-family residential. Properties to the south are commercial and vacant land and properties to the east are the I&N Rail Road railroad right of way then vacant land and residential properties. UT System currently owns the undeveloped commercial properties located to the south, east, and north of the designated property.

Historical Environmental Condition

Historically, the 7405 Almeda Tract, located on the western portion of the designated property was used as residential (1950-1960s), a truck yard and warehouse facility with associated underground storage tanks (USTs) (1960-2000), a solvent facility with an associated above ground storage tank (AST) tank

farm (1960-2000), a church (2000-2004), and a health care facility warehouse (2004-2006). Historically the eastern portion of the designated property, the Pawnee Tract, has remained undeveloped. The historical use of the 7405 Almeda tract as a truck yard and warehouse/solvent facility was the apparent source of chlorinated solvent and volatile organic compound (VOC) contaminated groundwater.

The 7405 Almeda Tract (the source property) was entered into the TCEQ Voluntary Cleanup Program (VCP) in August of 2007 and was assigned VCP No. 2076. The remaining portion of the designated property is part of the ± 28-acre tract (Pawnee Tract) which was entered into the TCEQ VCP in February 2008 and was assigned VCP No. 2137.

UT System has undertaken extensive site investigation activities to define the nature and extent of environmental impact from the historical releases in the project area. Five phases of subsurface investigation activities were conducted at the designated property from April 2007 through September 2009. The investigation activities included the installation of thirty-nine soil borings, thirteen groundwater monitor wells, and nine temporary groundwater screening sample points. The analytical data collected during the investigation activities indicated that tetrachloroethene and its degradation products: cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride, 1,1-dichloroethene, and fuel constituents including benzene, toluene, ethylbenzene, m,p-xylenes, and o-xylenes were present at the site at concentrations which exceeded the soil and/or groundwater Texas Risk Reduction Program (TRRP) Residential ingestion Protective Concentration Levels (PCLs). The affected groundwater is approximately 14 feet below ground surface (bgs) and the direction of local groundwater flow beneath the designated property is generally toward the southeast. The results of the soil and groundwater samples indicated that the extent of COCs had been defined to below the TRRP Residential groundwater ingestion PCLs.

In October of 2008, Halff initiated quarterly groundwater sampling of monitor wells in the source area and on the perimeter of the source area to evaluate plume stability. A comparison of the historical and quarterly sampling results (data developed between April 2007 and September 2009) indicates that the COC concentrations in groundwater appear to be stable. COC concentrations in the source area wells appear to be stable over the sampling history of the site. Furthermore, elevated concentrations of daughter products documented at the site indicate the occurrence of natural attenuation. The analytical results from the groundwater and groundwater screening sampling events are summarized in

Tables D-1 and D-2, respectively. The analytical results of soil sampling activities are summarized in Table D-3.

Seventeen state registered water wells were identified within one-half mile radius of the property during the records survey conducted for registered water wells. According to the report, eleven wells were listed as industrial, four as other uses, one as unused, and one as a domestic well. It should be noted that several of the wells identified as industrial wells appear on different data bases and single wells may appear in the report multiple times. The results of the water well records survey indicated that one domestic water well (State Well No. 65-21-6F) and two commercial/industrial use wells were located within one-quarter mile of the known extent of the affected groundwater zone at the subject. The domestic water well was associated with a former residential lot located approximately 100 feet to the east of the affected property. At the time of the field survey, the lot was vacant with no improvements, and no evidence of the recorded water well was observed. In addition, the current property owner was not aware of the existence or previous existence of the water well. Since the site is currently vacant with no improvements, a public water supply connection is available to the site, and there was no evidence of an on-site water well during the field survey, it appears that the referenced well is not affected or potentially affected by the impacted groundwater zone at the subject property. No additional water wells or evidence of water wells were identified during the 500-foot and 0.25 mile field surveys. The remaining two commercial/industrial wells were completed to depths of approximately 300 feet and 425 feet below ground surface (bgs). Based on relative distance, gradient, and completion depth, the two remaining commercial/industrial wells did not appear to be affected or potentially affected by the affected groundwater zone. No other wells were identified within one-quarter mile of the known extent of affected groundwater at the subject property. There are no sensitive receptors within 500 feet of the proposed MSD boundary. The nearest surface water body is Bray's Bayou and is located approximately 3,000-feet northwest of the subject property.

There are no other municipalities other than the City of Houston within one-half mile of the designated property. The following municipalities and retail public utilities, other than the City of Houston, operate at least one groundwater supply well within five miles of the subject property:

- City of West University Place
- City of Southside Place
- City of Bellaire
- Rice University, and
- UT MD Anderson

Response actions required for affected soil and groundwater at the designated property will be completed through the TCEQ's VCP after obtaining the MSD. The objectives of the planned response actions are to obtain a VCP Certificate of Completion for the site for residential land use. Concentrations of vinyl chloride at the 7405 Almeda Tract exceed the Residential Assessment Level with an MSD. A Tier 2 Residential ^{Air} GW _{Inh-V} PCL has been developed for the designated property. The concentrations of vinyl chloride at the 7405 Almeda Tract do not exceed the Tier 2 Residential ^{Air} GW _{Inh-V} PCL and will be addressed through the TCEQ VCP following the approval of the MSD. Based on the existing soil and groundwater analytical data, no PCL exceedance zones with the exception of the area specified above, have been identified at the designated property.

**Appendix B
(TCEQ MSD Reference No. 1, 2, & 4)**

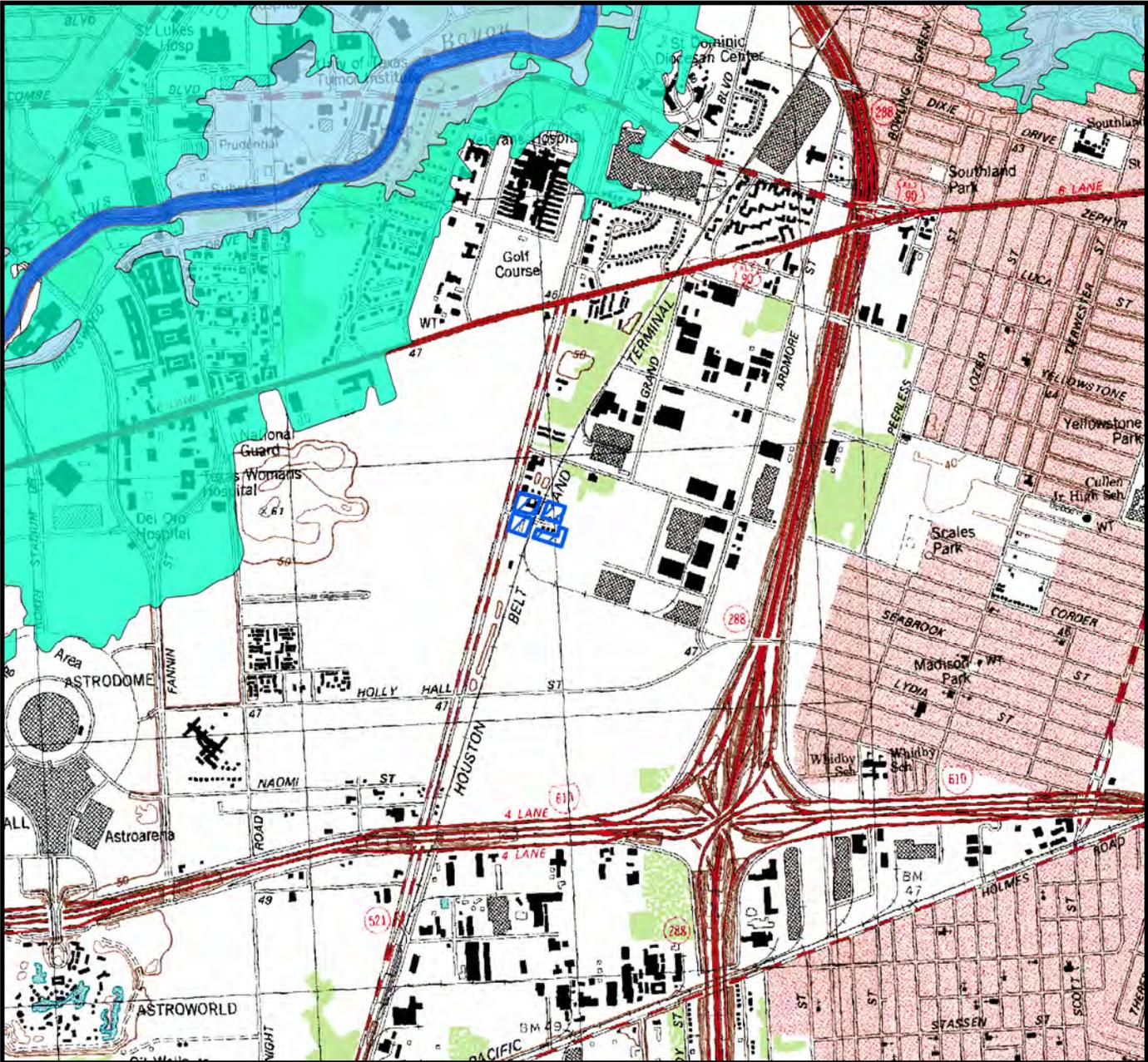
A site map showing:

- a. The location of the designated property.**
- b. The topography of the designated property as indicated on publicly available sources, which must note the watershed and whether the designated property is located in a floodplain or floodway, as those terms are defined in Chapter 19 of the Code.**
- c. The detected area of groundwater contamination.**
- d. The location of all soil sampling locations and all groundwater monitoring wells.**
- e. Groundwater gradients, to the extent known, and direction of groundwater flow.**
- f. The ingestion protective concentration level exceedence zone for each contaminant of concern, to the extent known.**

The following figures are attached:

- Figure B-1 – Location, topography, watershed, floodplain
- Figure B-2 – Site Map
- Figure B-3 - Sample Location Map
- Figure B-4 - Groundwater PCLE Zone – Tetrachloroethene
- Figure B-5 - Groundwater PCLE Zone – Trichloroethene
- Figure B-6 - Groundwater PCLE Zone – Cis-1,2-dichloroethene
- Figure B-7 - Groundwater PCLE Zone – Trans-1,2-dichloroethene
- Figure B-8 - Groundwater PCLE Zone – Vinyl Chloride
- Figure B-9 - Groundwater PCLE Zone – 1,1-Dichloroethene
- Figure B-10 - Groundwater PCLE Zone – Benzene
- Figure B-11 - Groundwater PCLE Zone – Ethyl Benzene
- Figure B-12 - Groundwater PCLE Zone – Toluene
- Figure B-13 - Groundwater PCLE Zone - m,p, and o-Xylenes
- Figure B-14 - Soil PCLE Zone - Tetrachloroethene
- Figure B-15 - Soil PCLE Zone - Trichloroethene
- Figure B-16 - Soil PCLE Zone - Cis-1,2-dichloroethene
- Figure B-17 - Soil PCLE Zone – Vinyl Chloride
- Figure B-18 - Soil PCLE Zone - Benzene
- Figure B-19 - Soil PCLE Zone - Ethyl Benzene
- Figure B-20 - Soil PCLE Zone – Toluene
- Figure B-21 - Soil PCLE Zone - Methylene Chloride

The subject property is located within the Bray's Bayou watershed, but is not located within the 100-year or 500-year flood plain.



EFFECTIVE FIRM WATERSHED: BRAYS BAYOU

Legend

-  Designated Property Area
-  Floodway
-  500 Year Flood Plain
-  100 Year Flood Plain
-  Outside Flood Plain

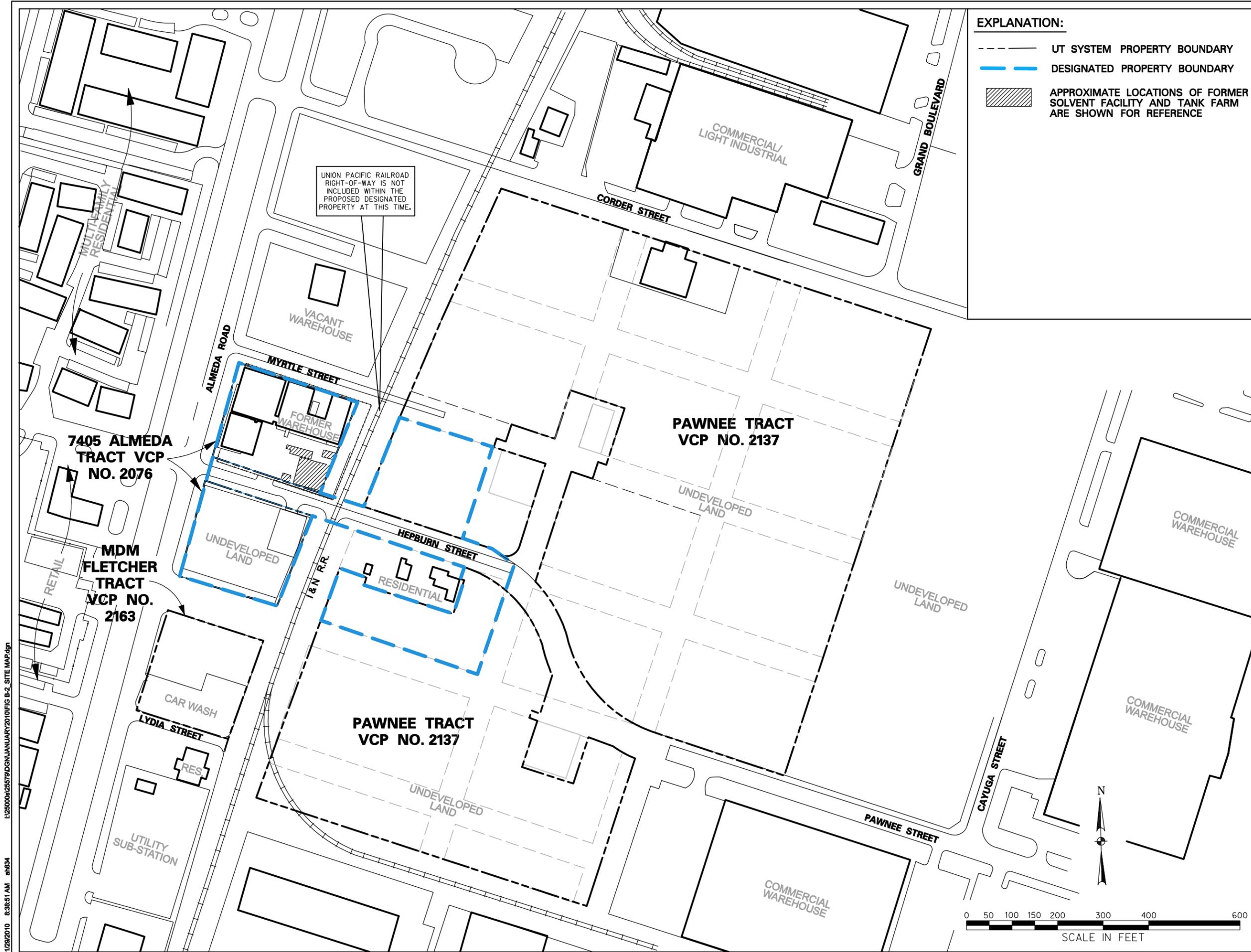
**FIGURE B-1
Site Location Map**

**BELLAIRE QUADGRANGLE AND
PARK PLACE QUADRANGLE**

TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

0 1,000 2,000 3,000 4,000 Feet





- EXPLANATION:**
- UT SYSTEM PROPERTY BOUNDARY
 - DESIGNATED PROPERTY BOUNDARY
 - ▨ APPROXIMATE LOCATIONS OF FORMER SOLVENT FACILITY AND TANK FARM ARE SHOWN FOR REFERENCE

UNION PACIFIC RAILROAD RIGHT-OF-WAY IS NOT INCLUDED WITHIN THE PROPOSED DESIGNATED PROPERTY AT THIS TIME.



SITE MAP
ALMEDA CENTRAL MSD
 BOARD OF REGENTS OF
 THE UNIVERSITY OF TEXAS SYSTEM
 MSD APPLICATION
 HOUSTON, TEXAS

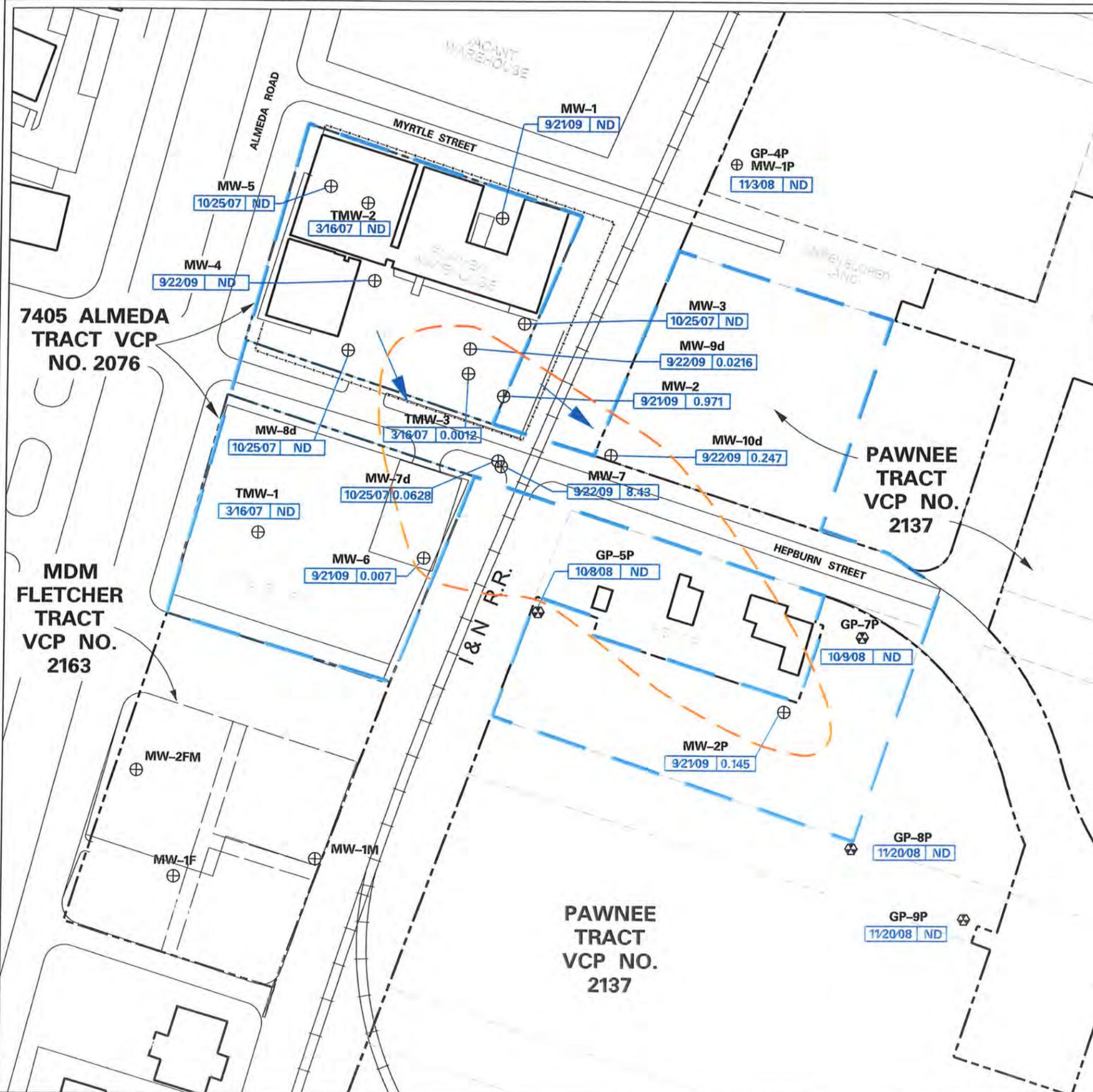
1/29/2010 8:38:51 AM ah684 I:\25579\06\25579\DC\JANUARY2010\FIG B-2_SITE_MAP.dgn

Project No.:	25579/MSD-C
Issued:	1/2010
Drawn By:	AGH
Checked By:	KB
Scale:	AS NOTED

Sheet Title
SITE MAP
ALMEDA CENTRAL MSD

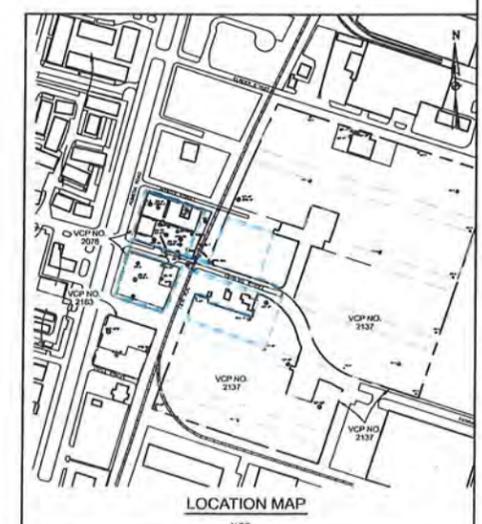
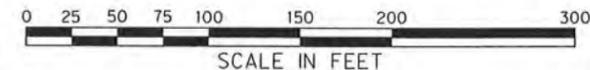
Figure **B-2**

3/8/2010 10:01:41 AM a8854 1:250000:25579:01JANUARY2010:FIG B-4_GW PCLE ZONE TETRACHLOROETHENE.dgn



- EXPLANATION:**
- UT SYSTEM PROPERTY BOUNDARY
 - DESIGNATED PROPERTY BOUNDARY
 - - - APPROXIMATE LIMITS OF GROUNDWATER WITH TETRACHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
 - ⊕ MONITOR WELL LOCATION
 - ⊗ GEOPROBE LOCATION
 - DIRECTION OF GROUNDWATER FLOW
 - <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT AVAILABLE DATA
 - ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
92109	ND
102507	ND
31607	ND
92209	ND
102507	ND
31607	0.0012
92209	0.0216
92109	0.971
92209	0.247
102507	ND
31607	0.0628
92109	0.007
92209	8.43
10808	ND
10908	ND
92109	0.145
112008	ND
112008	ND



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3/18/2010

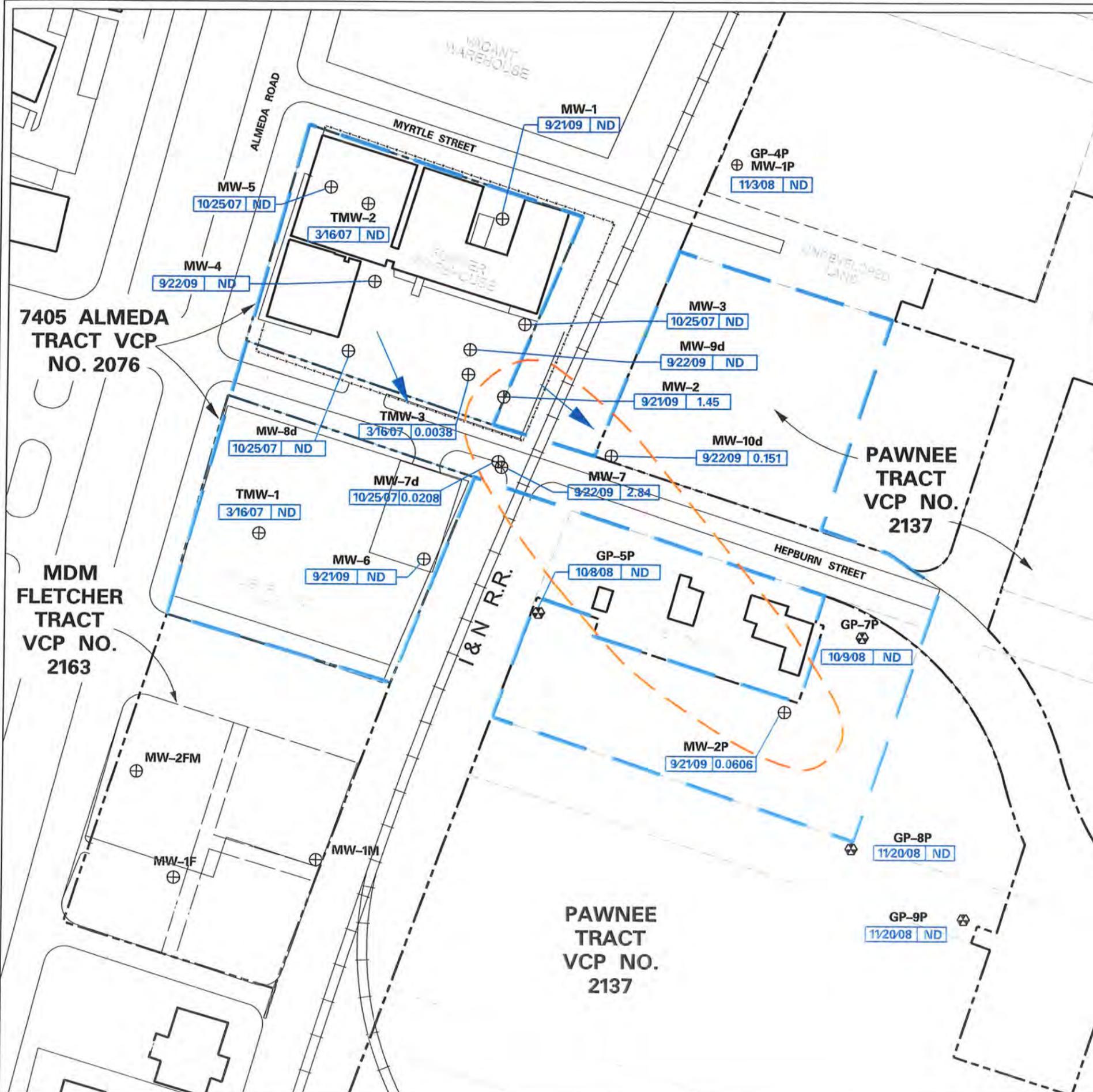
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Issued:	1/2010
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Scale:	AS NOTED
Sheet Title	GROUNDWATER PCLE ZONE TETRACHLOROETHENE ALMEDA CENTRAL MSD

Figure **B-4**



**GROUNDWATER PCLE ZONE
TETRACHLOROETHENE
ALMEDA CENTRAL MSD**
BOARD OF REGENTS OF
THE UNIVERSITY OF TEXAS SYSTEM
MSD APPLICATION
HOUSTON, TEXAS

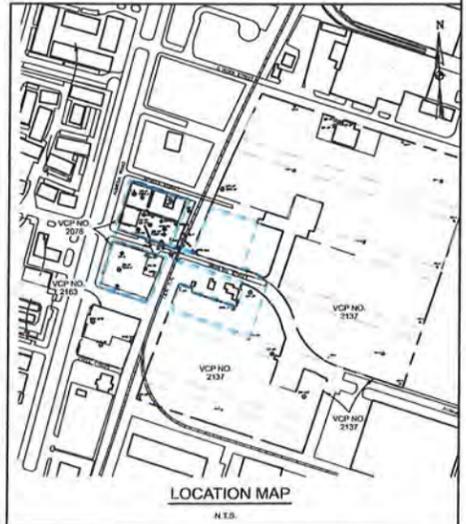
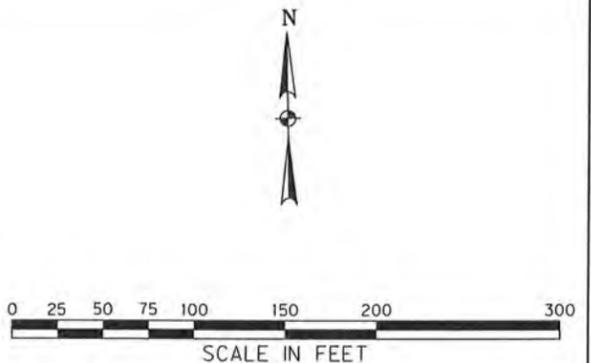
3/8/2010 10:01:52 AM ah854 I:\25500\25579\DWG\JANUARY2010\FIG B-5_GW PCLE ZONE TRICHLOROETHENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH TRICHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT AVAILABLE DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
9/21/09	ND
10/25/07	ND
3/16/07	ND
9/22/09	ND
10/25/07	ND
3/16/07	0.0038
10/25/07	0.0208
9/21/09	ND
10/25/07	ND
9/22/09	ND
9/21/09	1.45
9/22/09	0.151
9/22/09	2.84
10/8/08	ND
9/21/09	0.0606
11/20/08	ND
11/20/08	ND



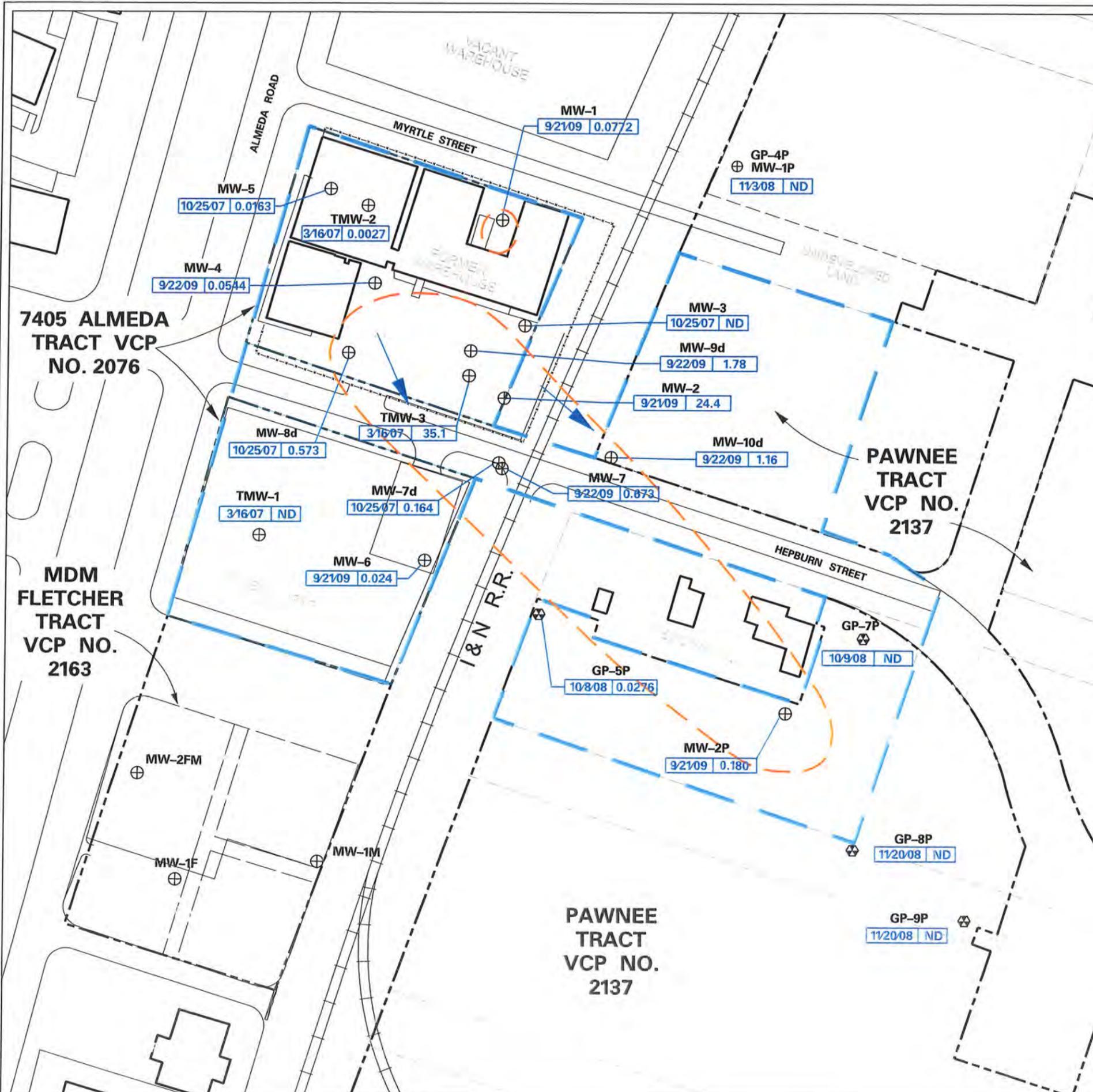
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GROUNDWATER PCLE ZONE TRICHLOROETHENE ALMEDA CENTRAL MSD
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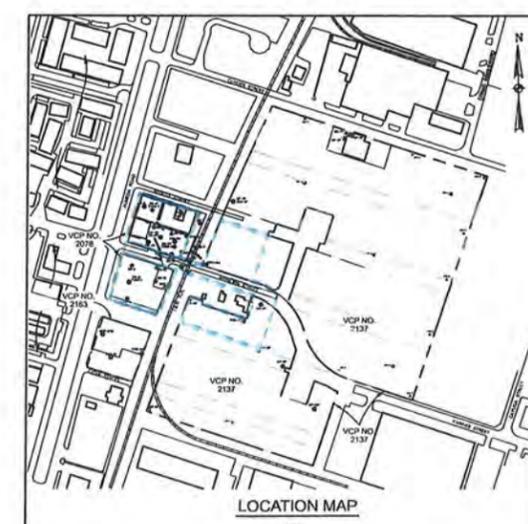
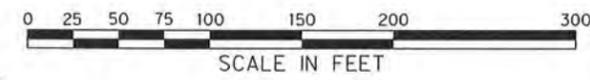
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Figure	B-5

3/8/2010 10:02:03 AM ah834 I:\25579\25579\DWG\JANUARY2010\FIG B-6 GW PCLE ZONE CIS1 2-DICHLOROETHENE.dwg

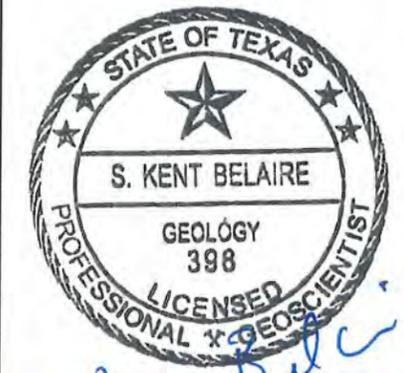


- EXPLANATION:**
- UT SYSTEM PROPERTY BOUNDARY
 - DESIGNATED PROPERTY BOUNDARY
 - - - APPROXIMATE LIMITS OF GROUNDWATER WITH CIS 1,2-DICHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
 - ⊕ EXISTING MONITOR WELL
 - ⊗ GEOPROBE LOCATION
 - DIRECTION OF GROUNDWATER FLOW
 - <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT AVAILABLE DATA
 - ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
10/25/07	0.0163
9/22/09	0.0544
3/16/07	0.0027
9/21/09	0.0772
10/25/07	ND
11/3/08	ND
10/25/07	ND
9/22/09	1.78
9/21/09	24.4
3/16/07	35.1
10/25/07	0.573
3/16/07	ND
10/25/07	0.164
9/21/09	0.024
9/22/09	1.16
9/22/09	0.673
10/25/07	0.573
9/21/09	0.180
10/8/08	0.0276
10/9/08	ND
11/20/08	ND
11/20/08	ND



**GROUNDWATER PCLE ZONE
CIS-1,2 - DICHLOROETHENE
ALMEDA CENTRAL MSD**
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HOUSTON, TEXAS

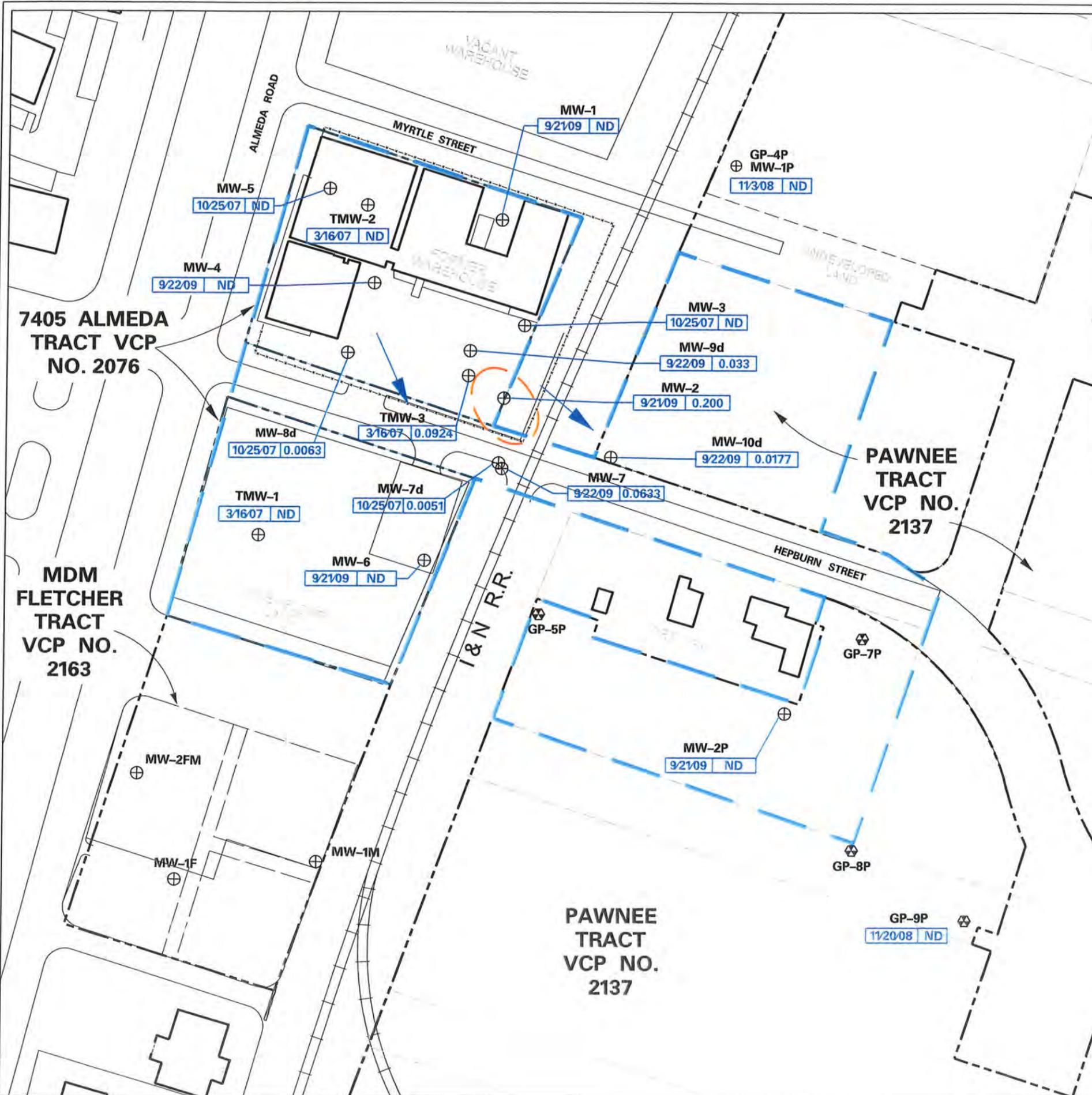


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Sheet Title	GROUNDWATER PCLE ZONE CIS 1,2 - DICHLOROETHENE ALMEDA CENTRAL MSD

Figure **B-6**

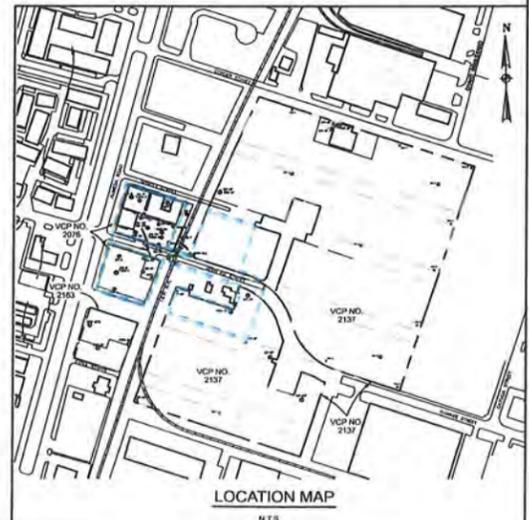
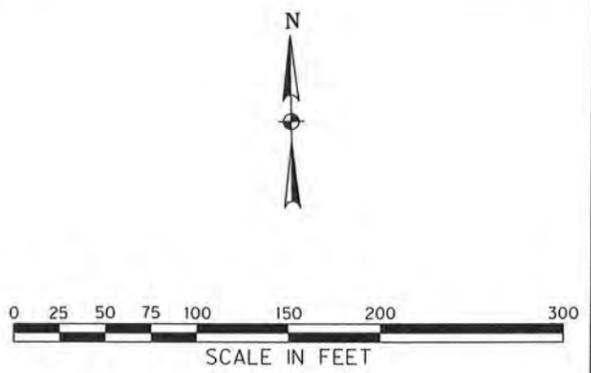
3/8/2010 10:02:16 AM a1834 1:25000s/25579/DGN/JANUARY2010/FIG B-7 - GW PCLE ZONE TRANS 1, 2-DICHLOROETHENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH TRANS 1,2-DICHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ EXISTING MONITOR WELL
- ⊗ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
9/21/09	ND
11/3/08	ND
10/25/07	ND
3/16/07	ND
9/22/09	ND
10/25/07	ND
10/25/07	0.033
9/21/09	0.200
10/25/07	0.0924
3/16/07	0.024
9/22/09	0.0177
9/22/09	0.0633
10/25/07	0.0063
3/16/07	ND
10/25/07	0.0051
9/21/09	ND
9/21/09	ND
9/21/09	ND
11/20/08	ND



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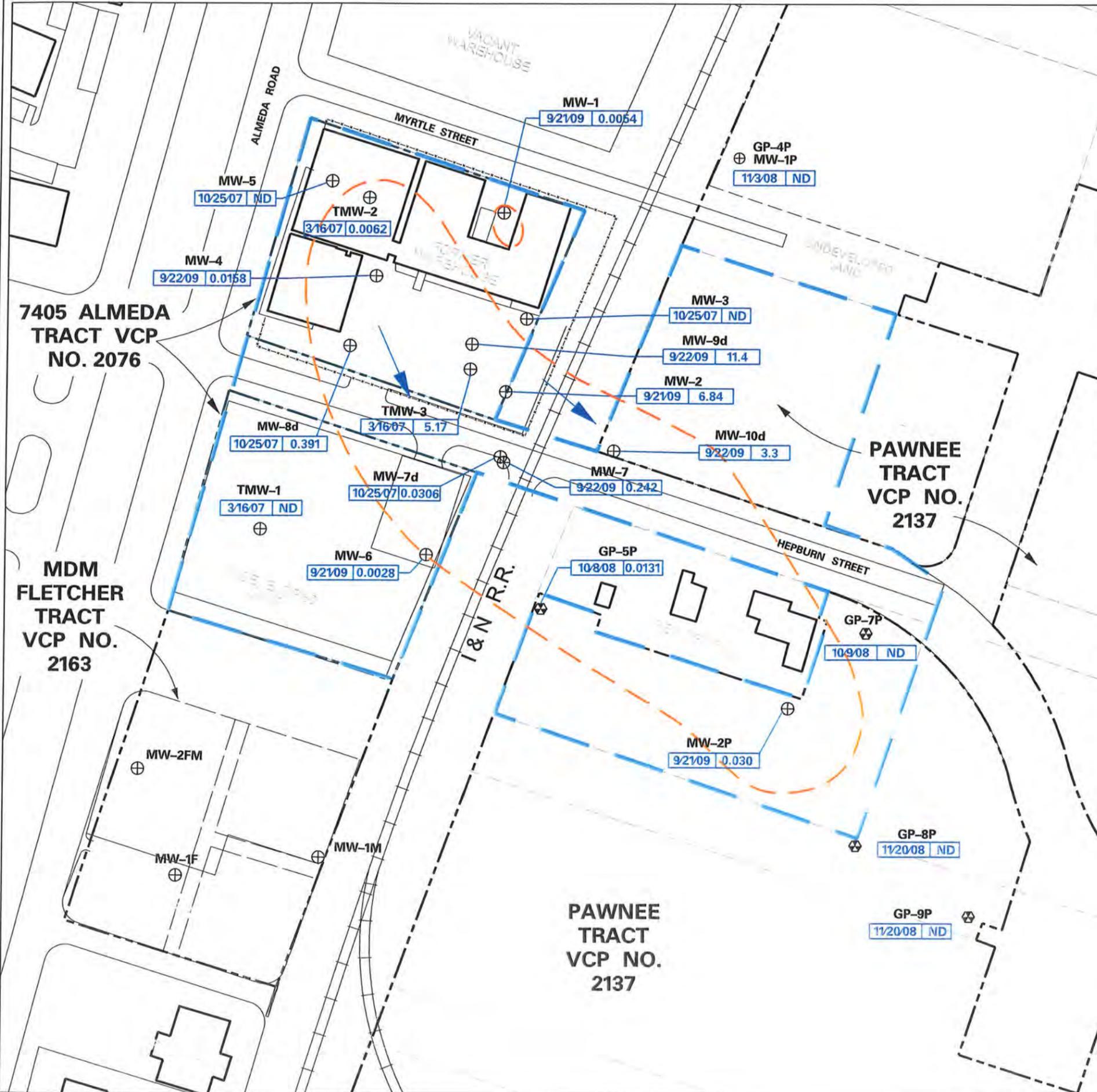
**GROUNDWATER PCLE ZONE
 TRANS 1,2 - DICHLOROETHENE
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Figure **B-7**

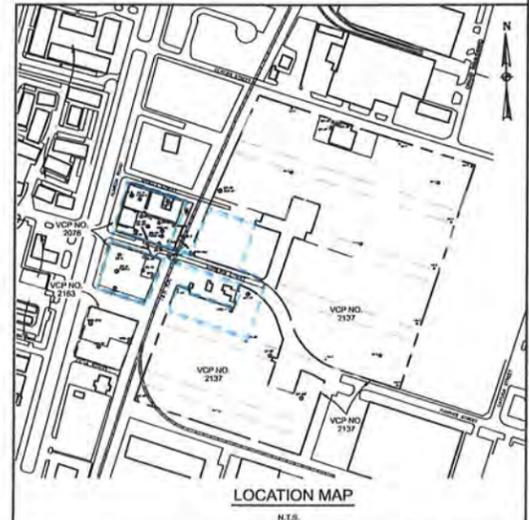
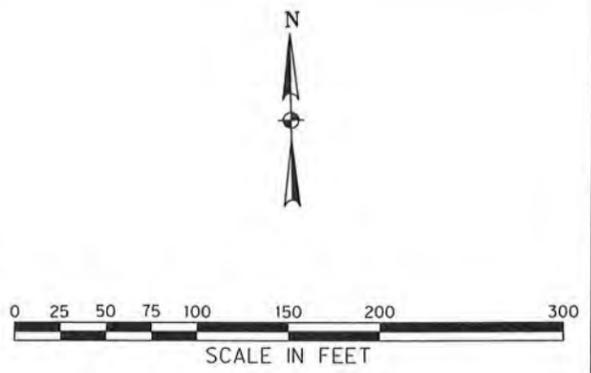
3/8/2010 10:02:27 AM ahs34 1:25000s/25579D/GN/JANUARY2010/FIG B-8 GW PCLE ZONE VINYL CHLORIDE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH VINYL CHLORIDE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ EXISTING MONITOR WELL
- ⊗ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT AVAILABLE DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
92109	0.0054
11/3/08	ND
10/25/07	ND
3/16/07	0.0062
92209	0.0158
10/25/07	ND
3/16/07	0.0062
10/25/07	0.391
3/16/07	5.17
10/25/07	0.0306
92109	0.0028
10/25/07	0.242
92209	11.4
92109	6.84
92209	3.3
92209	0.242
10/8/08	0.0131
10/9/08	ND
92109	0.030
11/20/08	ND
11/20/08	ND



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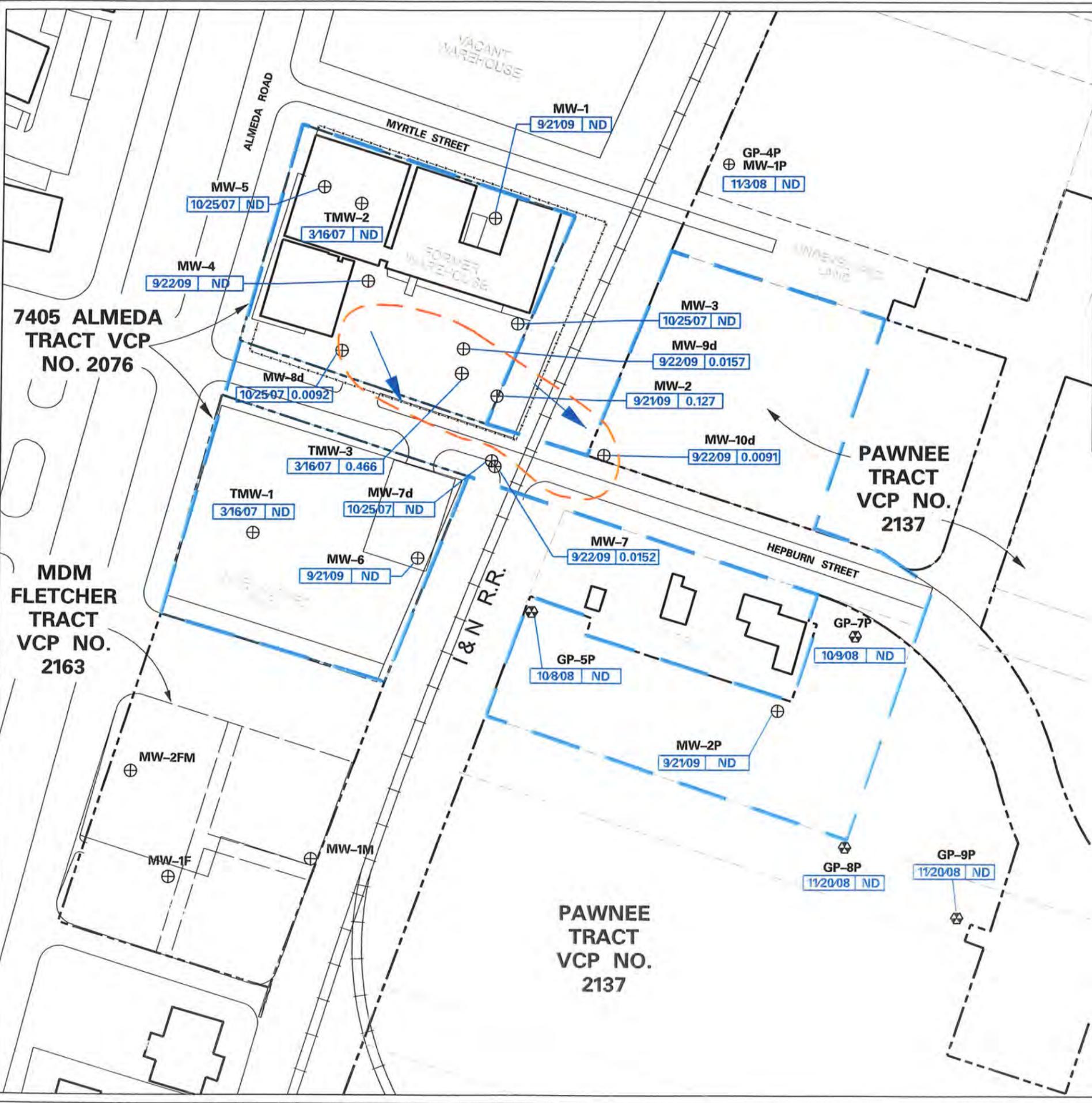
**GROUNDWATER PCLE ZONE
 VINYL CHLORIDE
 ALMEDA CENTRAL MSD**
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Figure **B-8**

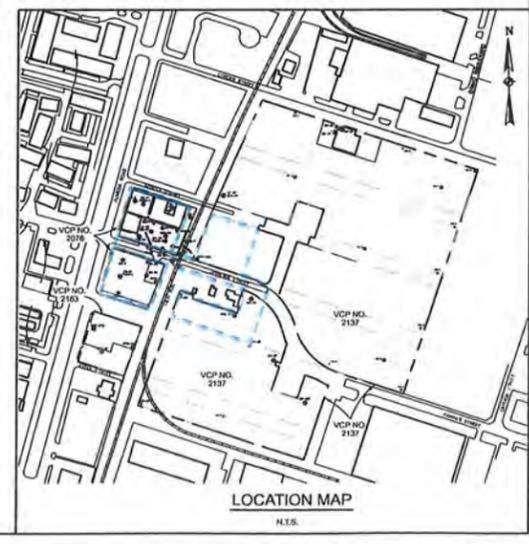
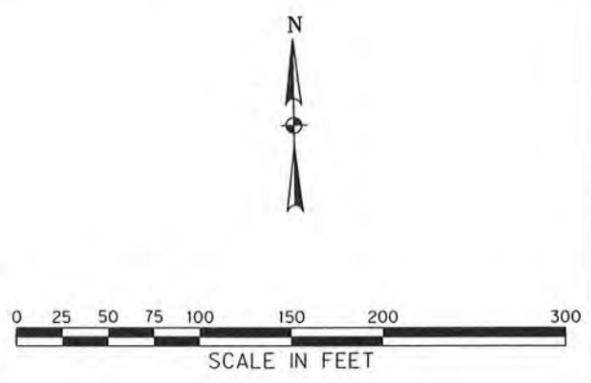
3/8/2010 10:02:39 AM ah634 I:\25000a\25579\DC\JANUARY2010\FIG B-9.GW.PCLE.ZONE.11.DICHLOROETHENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH 1,1 - DICHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ EXISTING MONITOR WELL
- ⊗ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
9/21/09	ND
11/3/08	ND
10/25/07	ND
3/16/07	ND
9/22/09	ND
10/25/07	0.0092
3/16/07	0.466
3/16/07	ND
10/25/07	ND
9/21/09	ND
9/22/09	0.0157
9/21/09	0.127
9/22/09	0.0091
9/22/09	0.0152
10/8/08	ND
9/21/09	ND
10/9/08	ND
11/20/08	ND
11/20/08	ND



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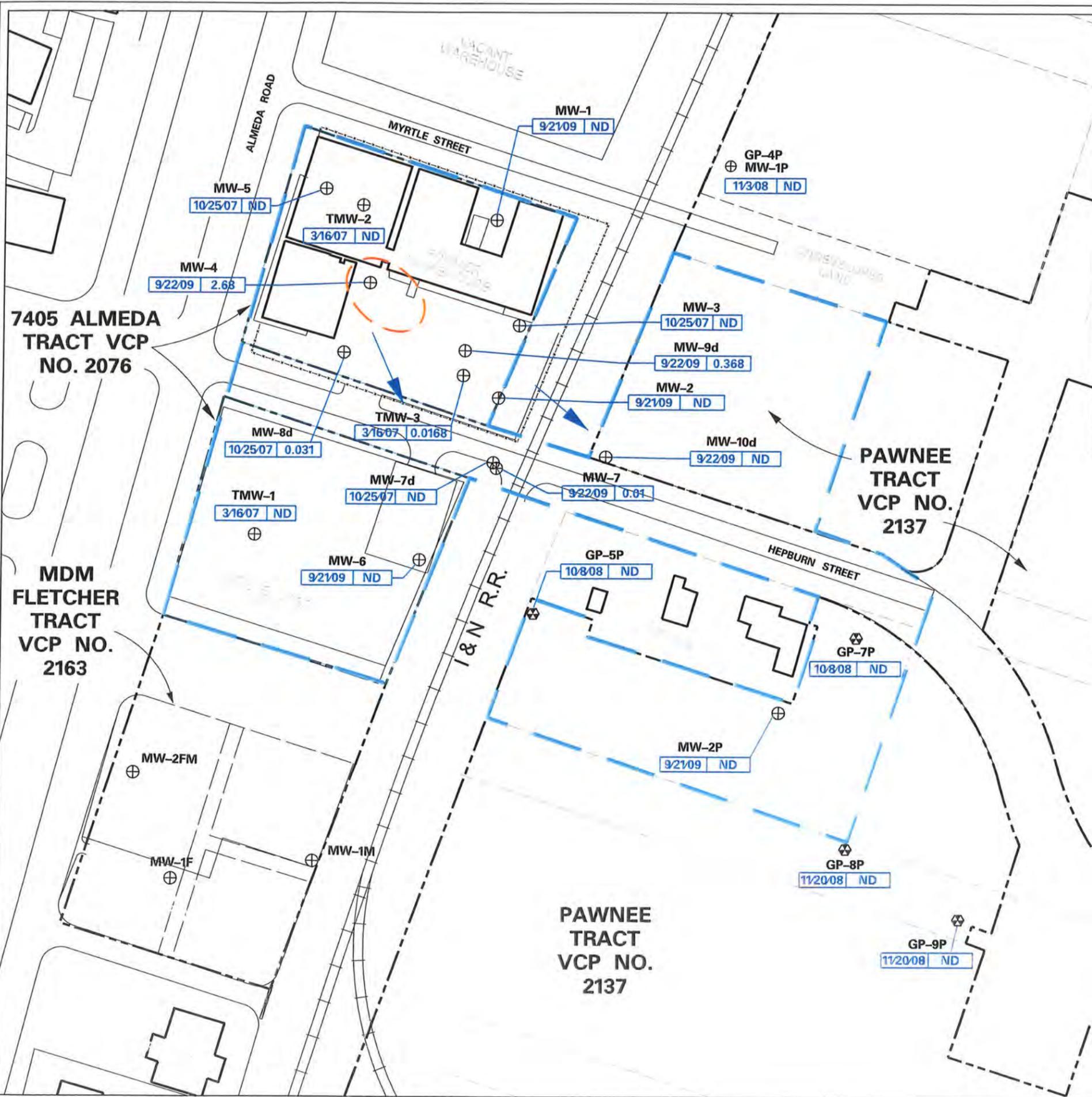
**GROUNDWATER PCLE ZONE
 1,1 - DICHLOROETHENE
 ALMEDA CENTRAL MSD**
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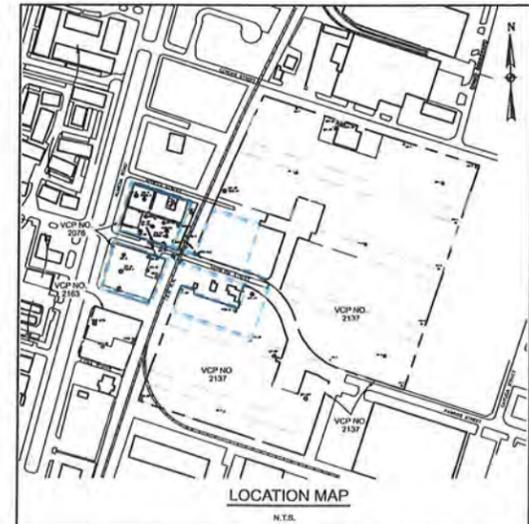
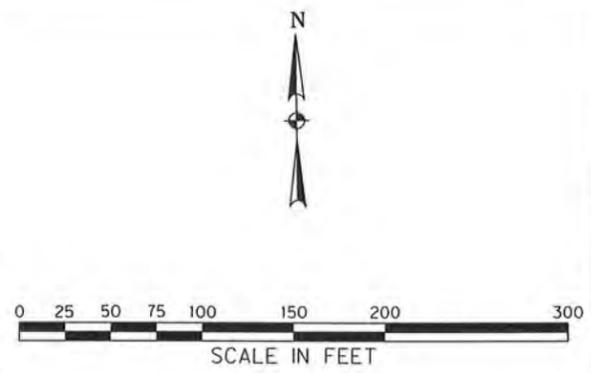
3/8/2010 9:58:37 AM an834 1:\250009\25579\01\GND\ANNUARY\2010\FIG B-11_GW_PCLE_ZONE_ETHYL_BENZENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH ETHYL BENZENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ EXISTING MONITOR WELL
- ⊗ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
92109	ND
11/308	ND
102507	ND
3/1607	ND
92209	2.68
102507	ND
3/1607	0.0168
102507	0.031
3/1607	ND
102507	ND
92109	ND
92209	0.368
92109	ND
92209	0.01
92209	ND
10/808	ND
92109	ND
10/808	ND
11/2008	ND
11/2008	ND



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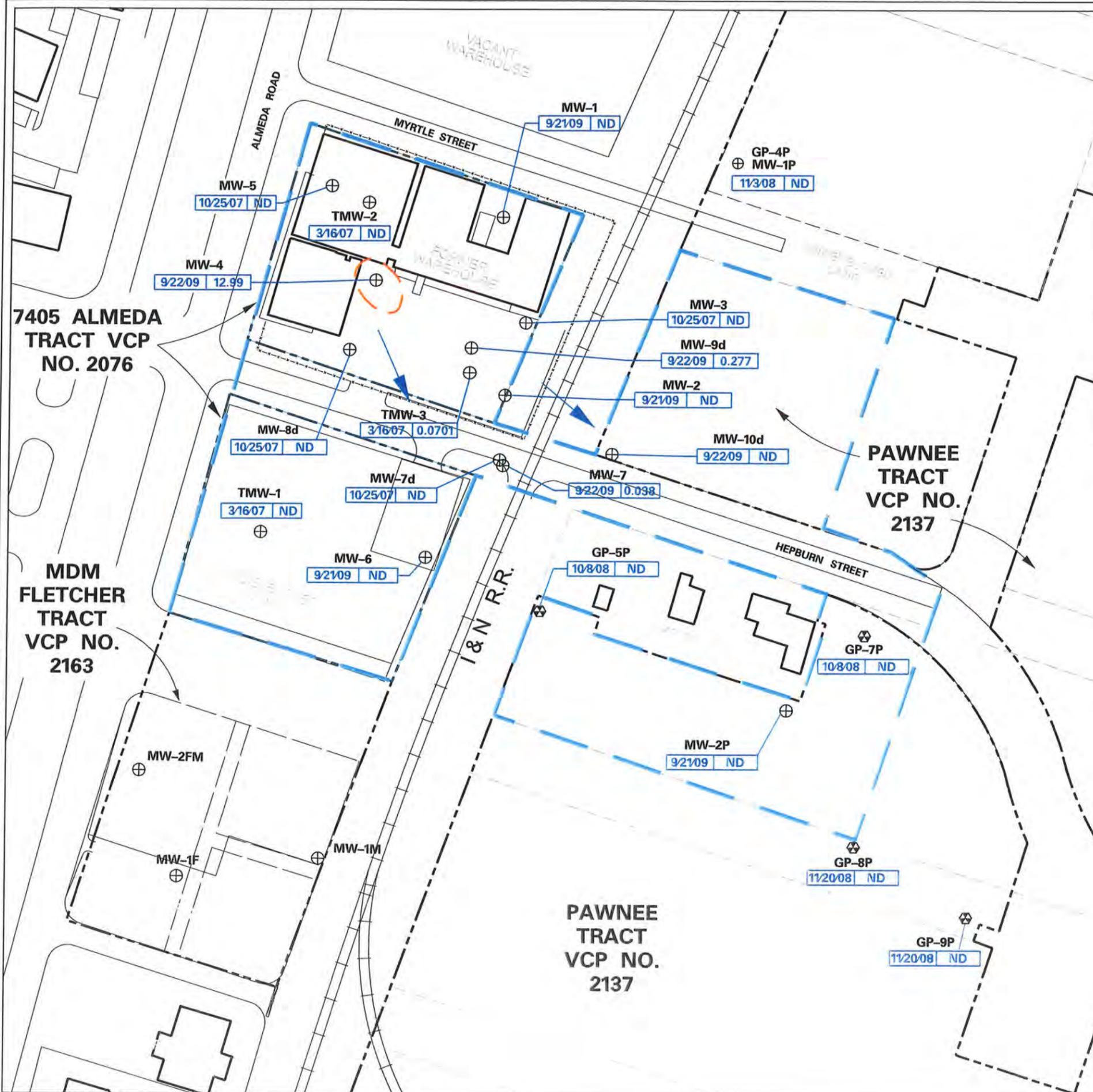
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Figure **B-11**

3/8/2010 9:59:03 AM ah834 1:25000625579.DGN JANUARY 2010 FIG B-13 GW PCLE ZONE M, P, O -XYLENES.dgn

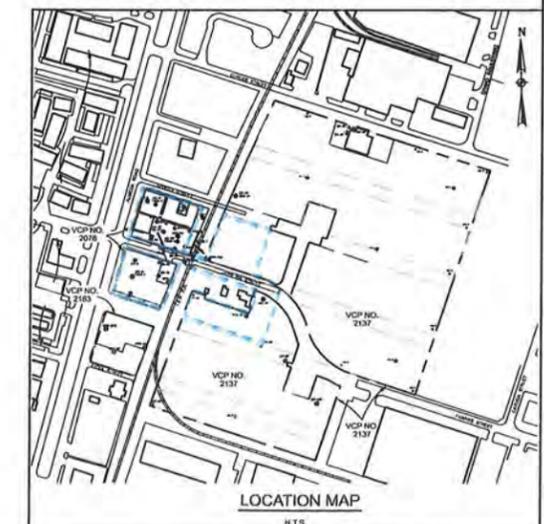


EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF GROUNDWATER WITH M, P & O - XYLENES EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ EXISTING MONITOR WELL
- ⊕ GEOPROBE LOCATION
- DIRECTION OF GROUNDWATER FLOW
- <0.005 COC CONCENTRATION IN MILLIGRAMS PER LITER (mg/l) BASED UPON MOST RECENT DATA
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DATE	COC CONCENTRATION (mg/l)
92109	ND
102507	ND
92209	12.99
31607	ND
102507	ND
31607	0.0701
102507	ND
92109	ND
102507	ND
92109	ND
102507	ND
92209	0.277
92109	ND
92209	0.038
92209	ND
10808	ND
92109	ND
10808	ND
112008	ND
112008	ND

NOTE:
LISTED COC CONCENTRATION IS THE SUM OF M,P - XYLENES CONCENTRATION AND O - XYLENE CONCENTRATION.



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M,P & O - XYLENES
ALMEDA CENTRAL MSD**

Figure **B-13**

3/8/2010 9:59:19 AM ah834 I:\25000\25579\01\FIG B-14A_SOIL_PCLE_ZONE_TETRACHLOROETHENE.dgn

7405 ALMEDA TRACT VCP NO. 2076

MDM FLETCHER TRACT VCP NO. 2163

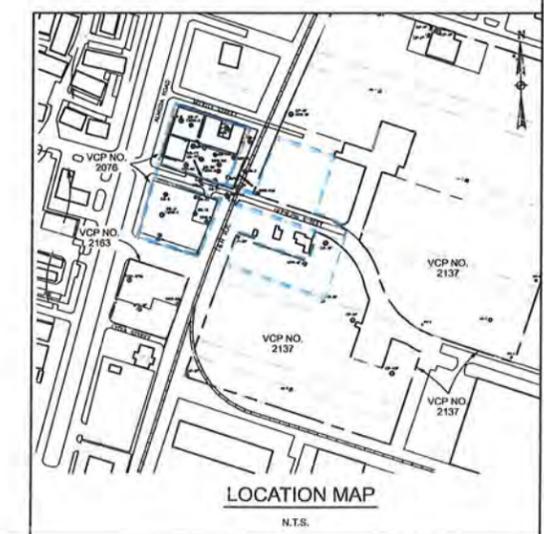
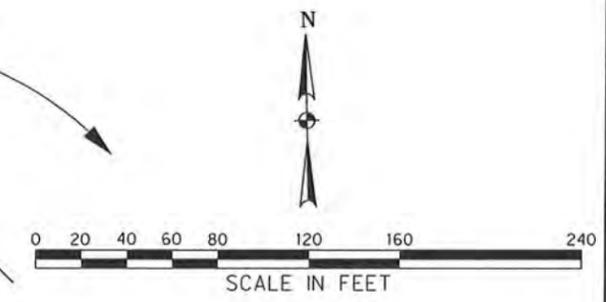
PAWNEE TRACT VCP NO. 2137

PAWNEE TRACT VCP NO. 2137

EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- APPROXIMATE LIMITS OF SOIL WITH TETRACHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
15'-16'	0.0023
15'-16'	0.295
10'-12.5'	0.948
1'-2'	0.0288
1'-2'	0.0126
3'-4'	0.0063
15'-16'	1.28
14'-15'	0.0056
16'-17'	0.0871
7.5'-10'	0.273
12.5'-15'	0.0079
9'-10'	3.27



SOIL PCLE ZONE TETRACHLOROETHENE ALMEDA CENTRAL MSD
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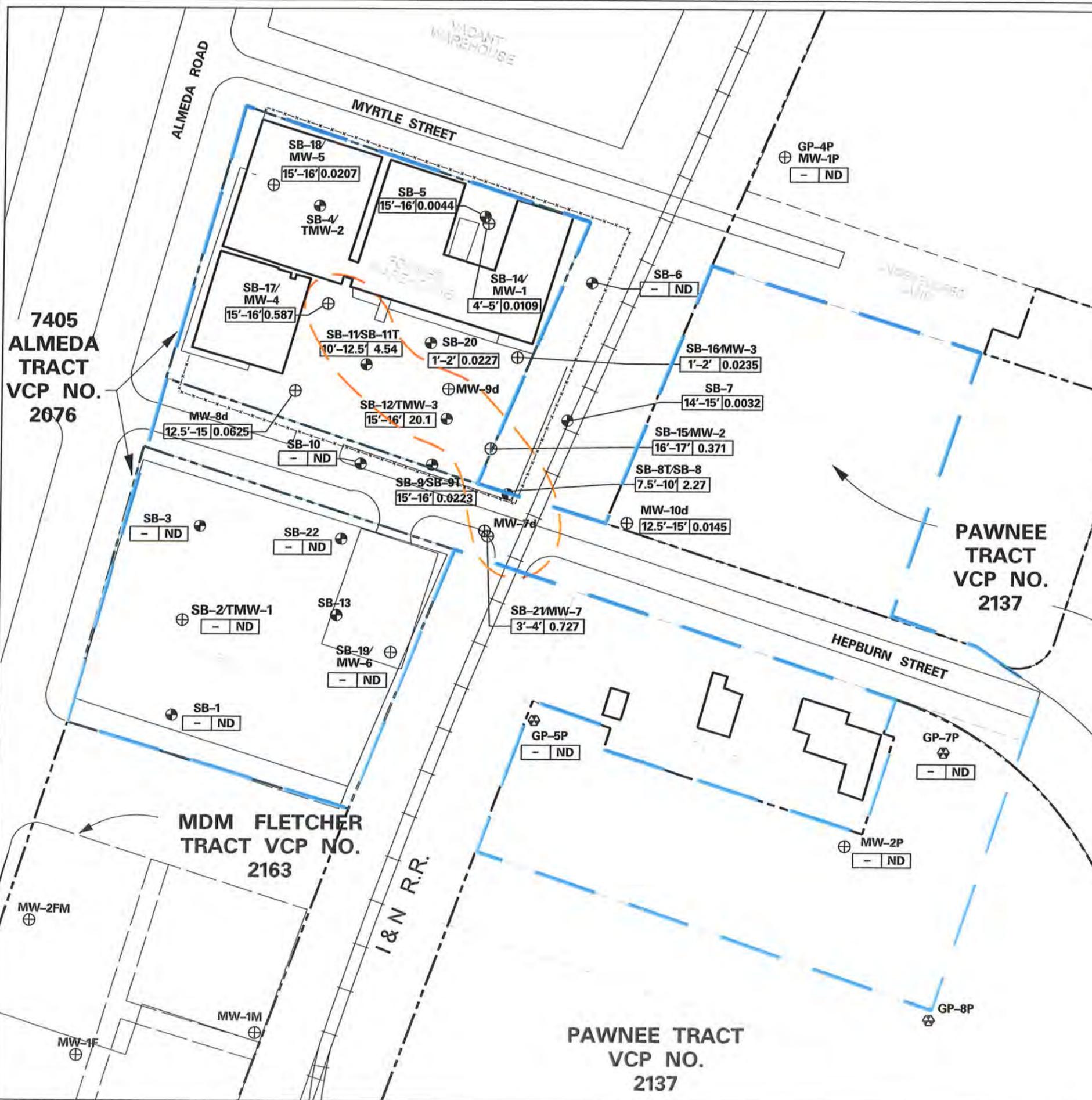
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B-14

Figure

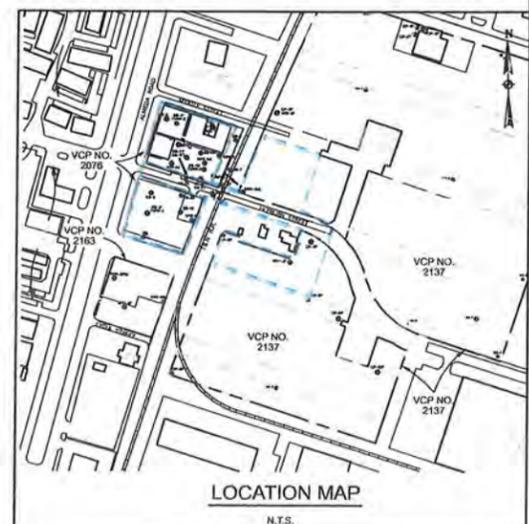
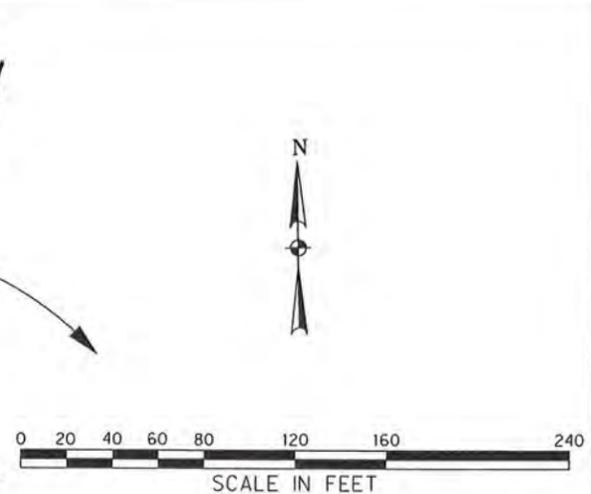
3/9/2010 9:58:49 AM a1834 1:250000a25579D00JANUARY2010FIG B-16A SOIL PCLE ZONE CIS 1,2-DICHLOROETHENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF SOIL WITH CIS 1,2 - DICHLOROETHENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
15'-16'	0.0207
15'-16'	0.0044
15'-16'	0.587
10'-12.5'	4.54
1'-2'	0.0227
1'-2'	0.0235
14'-15'	0.0032
16'-17'	0.371
7.5'-10'	2.27
12.5'-15'	0.0145
15'-16'	0.0223
3'-4'	0.727



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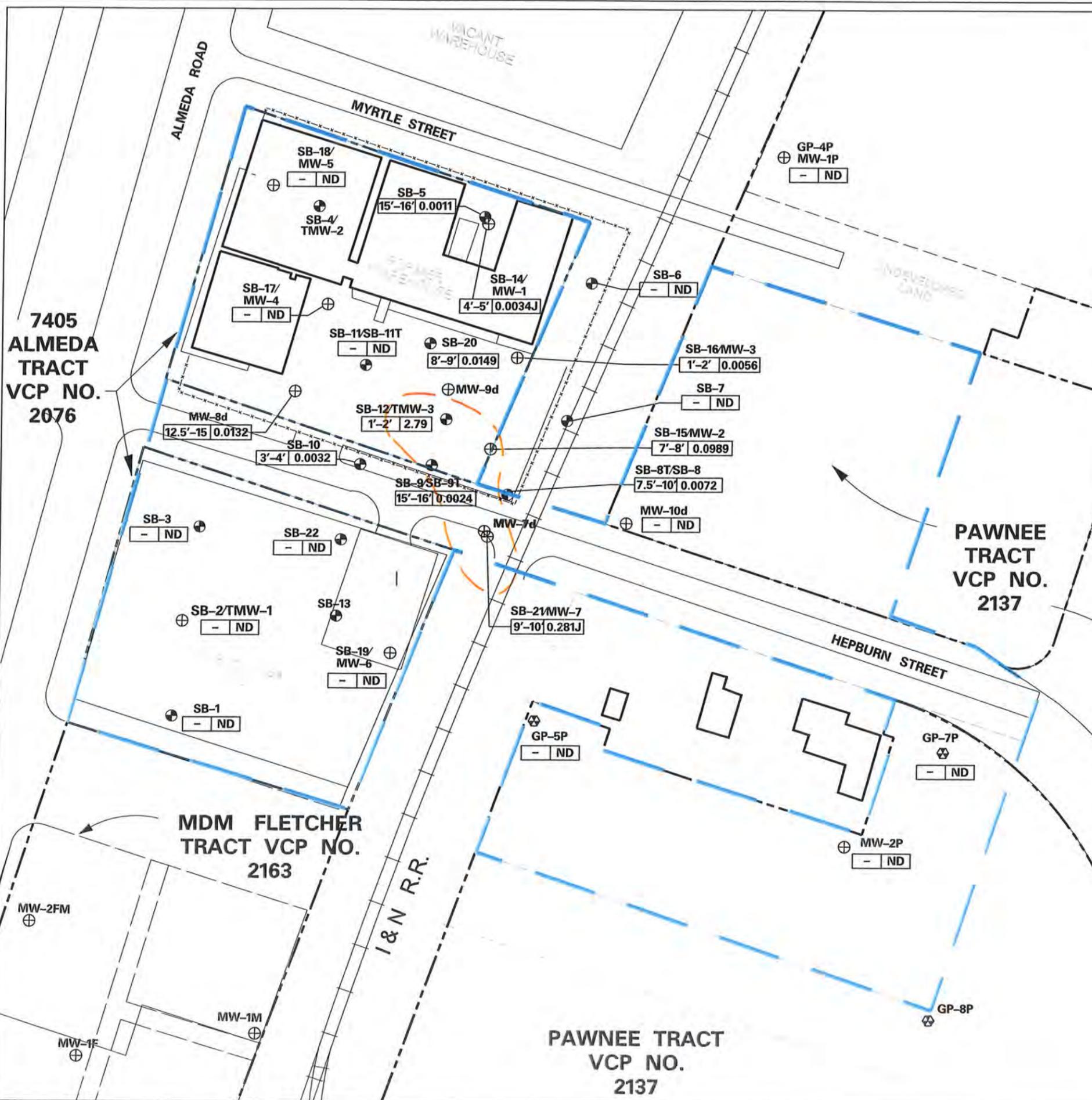
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Figure **B-16**

3/8/2010 10:00:03 AM ah834 I:\255006\25579\01\FIG B-17A SOIL PCLE ZONE VINYL CHLORIDE.dgn

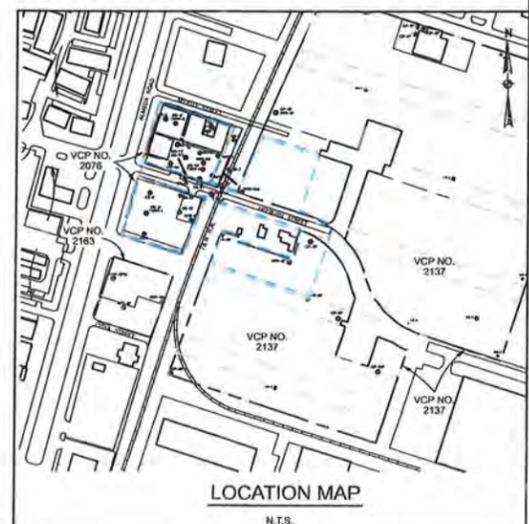
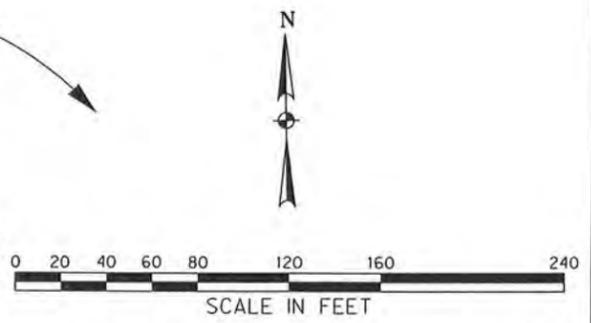


EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF SOIL WITH VINYL CHLORIDE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
	J

J INDICATES AN ESTIMATED VALUE. THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE SQL



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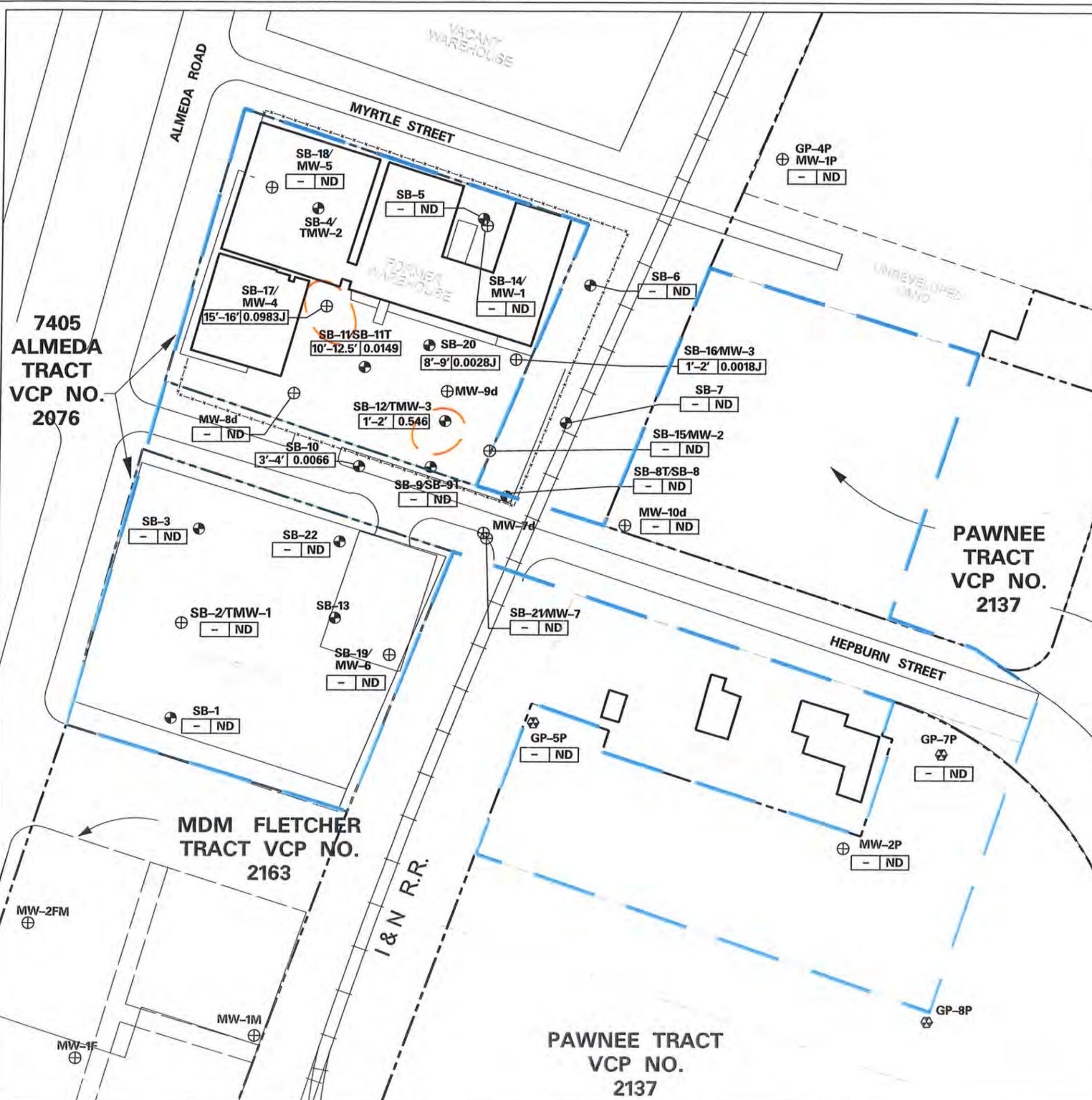
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Figure **B-17**

3/8/2010 10:00:16 AM ah834 I:\25579\05\25579\05\JANUARY2010\FIG B-18A SOIL PCLE ZONE BENZENE.dgn

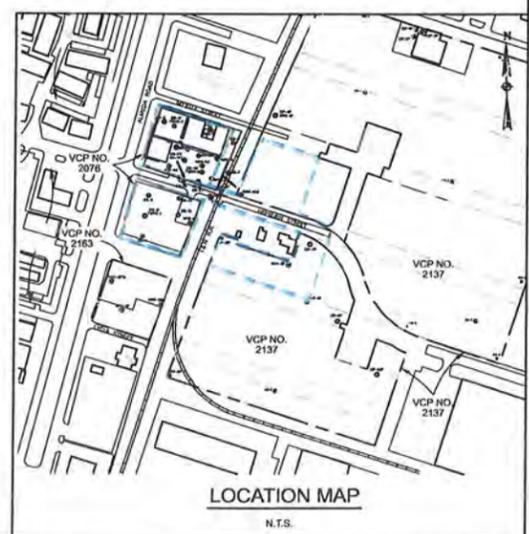
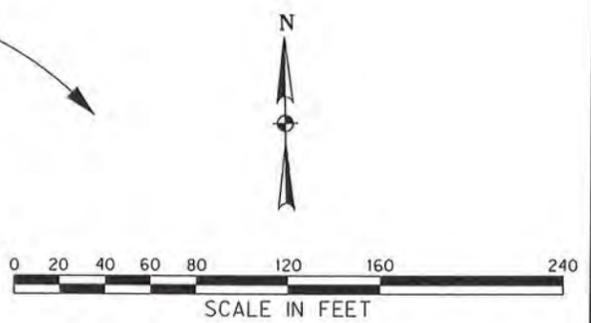


EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF SOIL WITH BENZENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
15'-16'	0.0983J
10'-12.5'	0.0149
8'-9'	0.0028J
1'-2'	0.0018J
1'-2'	0.546
3'-4'	0.0066

J INDICATES AN ESTIMATED VALUE. THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE SQL



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ALMEDA CENTRAL MSD**

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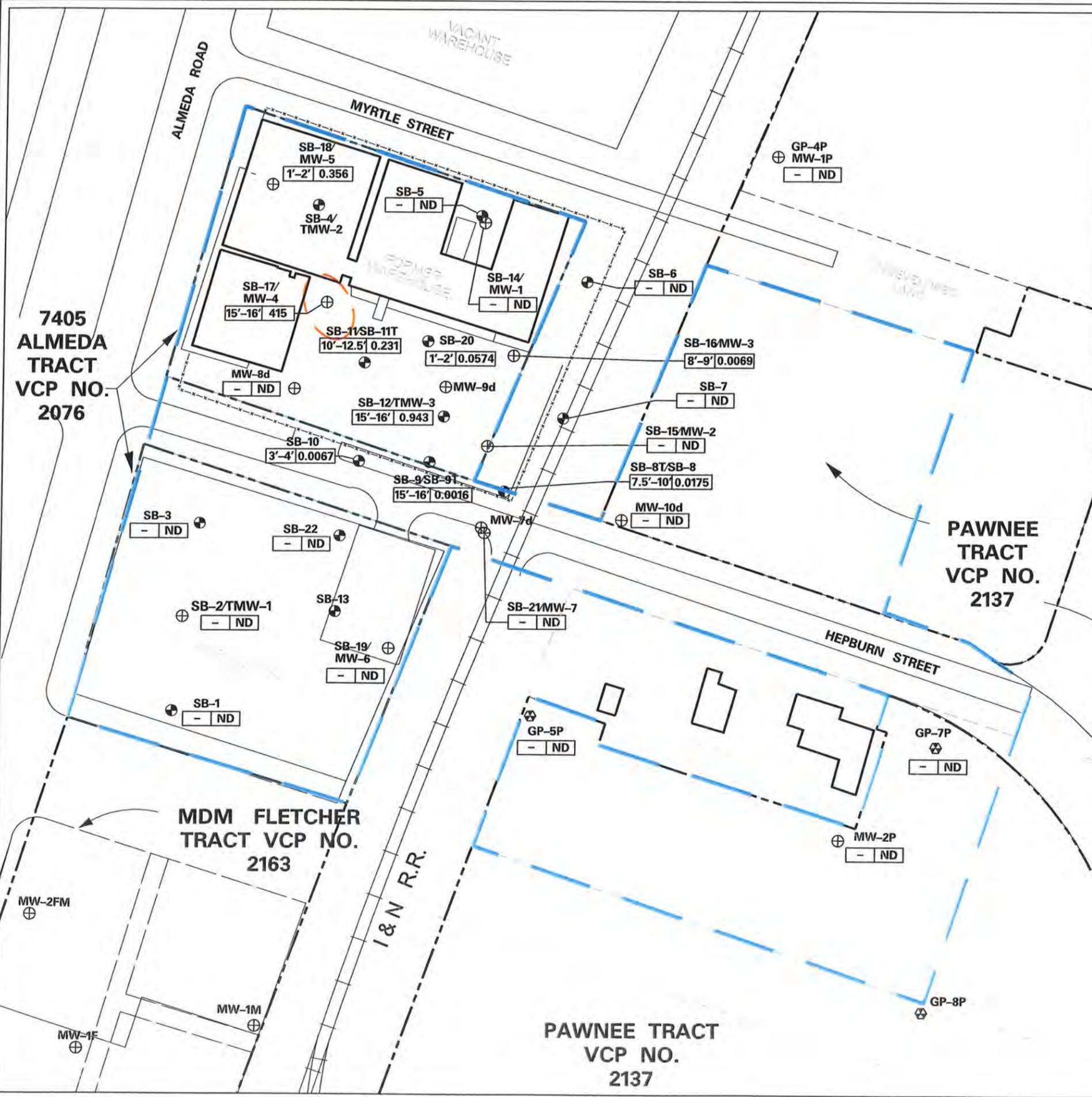
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Sheet Title	SOIL PCLE ZONE BENZENE ALMEDA CENTRAL MSD

B-18

Figure

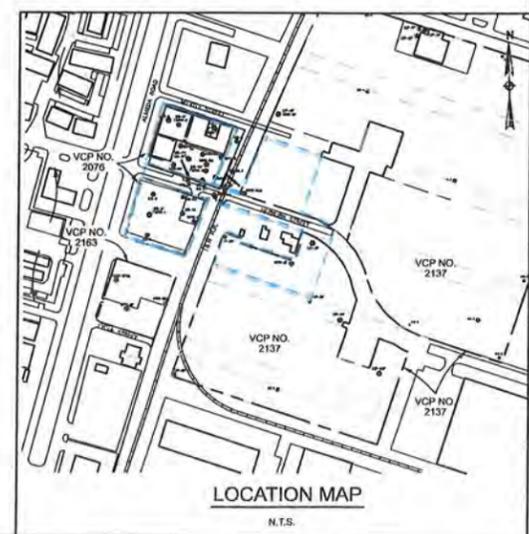
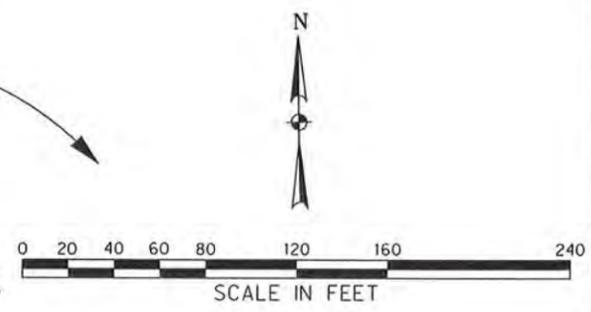
3/8/2010 10:00:46 AM ah834 I:\255006\25579\01\FIG B-20A SOIL PCLE ZONE TOLUENE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF SOIL WITH TOLUENE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
1'-2'	0.356
15'-16'	415
10'-12.5'	0.231
1'-2'	0.0574
8'-9'	0.0069
15'-16'	0.943
3'-4'	0.0067
15'-16'	0.0016
7.5'-10'	0.0175



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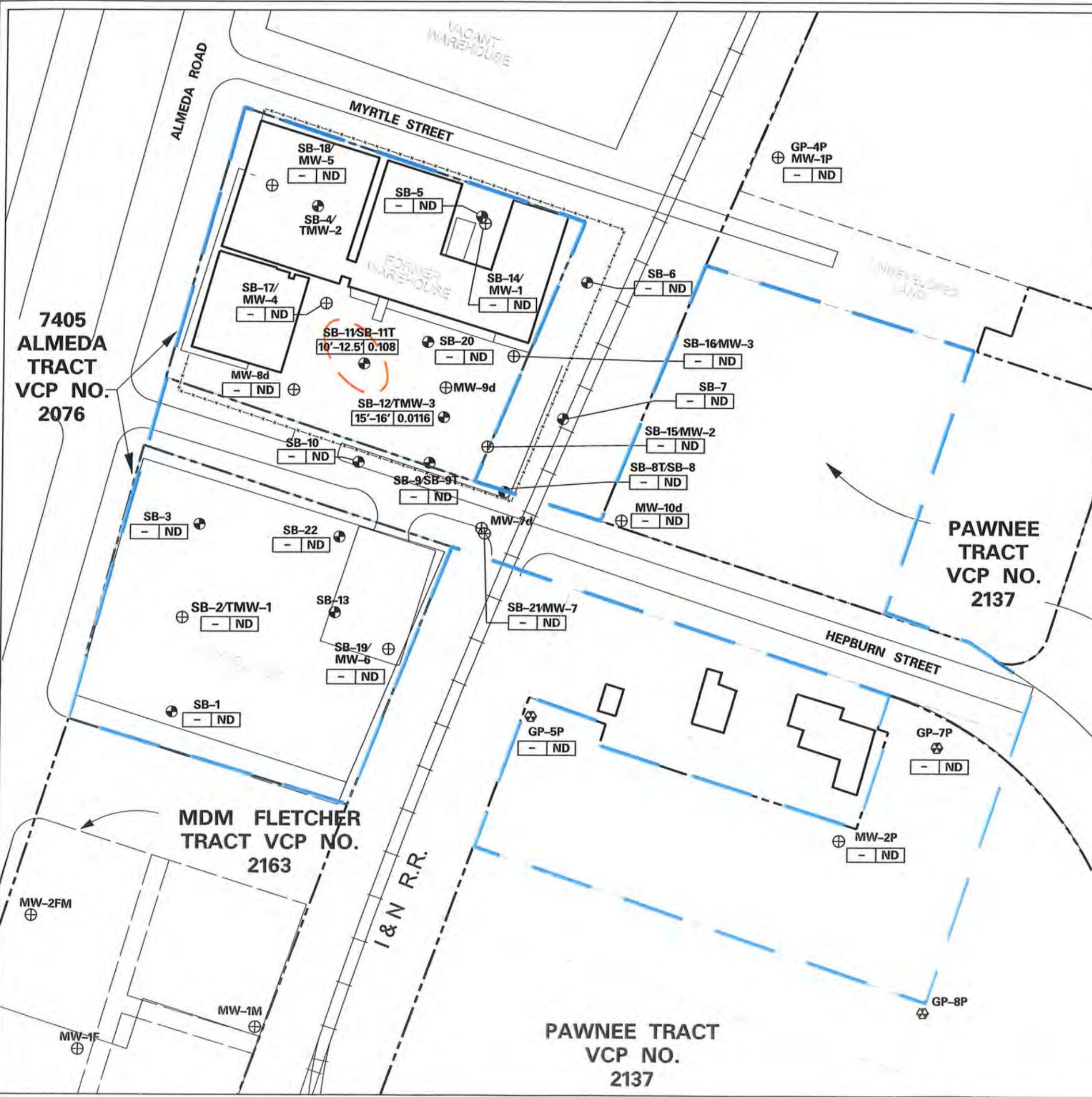
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B-20

Figure

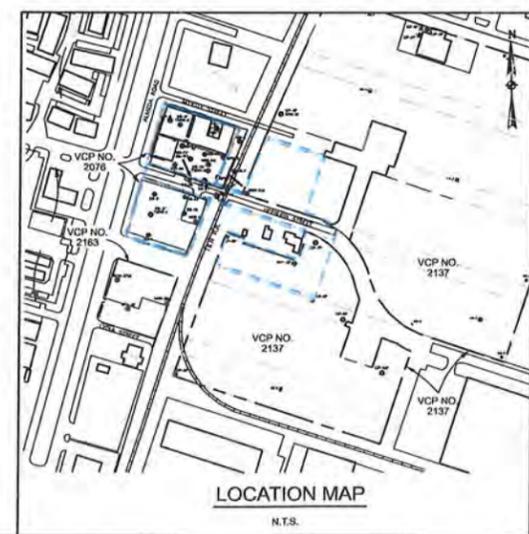
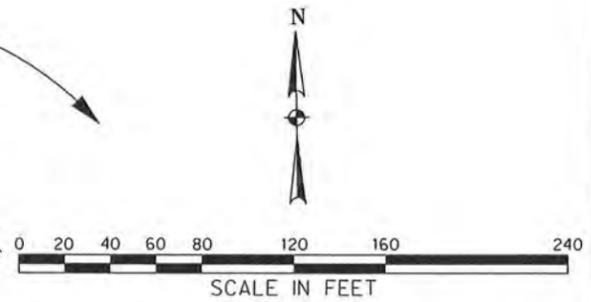
3/8/2010 10:01:00 AM ah834 I:\255006\25579\DCN\JANUARY2010\FIG B-21A SOIL PCLE ZONE METHYL CHLORIDE.dgn



EXPLANATION:

- UT SYSTEM PROPERTY BOUNDARY
- DESIGNATED PROPERTY BOUNDARY
- - - APPROXIMATE LIMITS OF SOIL WITH METHYLENE CHLORIDE EXCEEDING INGESTION RESIDENTIAL PROTECTIVE CONCENTRATION LEVELS
- ⊕ MONITOR WELL LOCATION
- ⊗ GEOPROBE LOCATION
- ⊙ SOIL BORING LOCATION
- <0.005 MAXIMUM COC CONCENTRATION DOCUMENTED IN SURFACE OR SUBSURFACE SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ND ANALYTE NOT DETECTED AT OR ABOVE THE SAMPLE QUANTITATION LIMIT

SAMPLE DEPTH (feet)	COC CONCENTRATION (mg/kg)
10'-12.5'	0.108
15'-16'	0.0116



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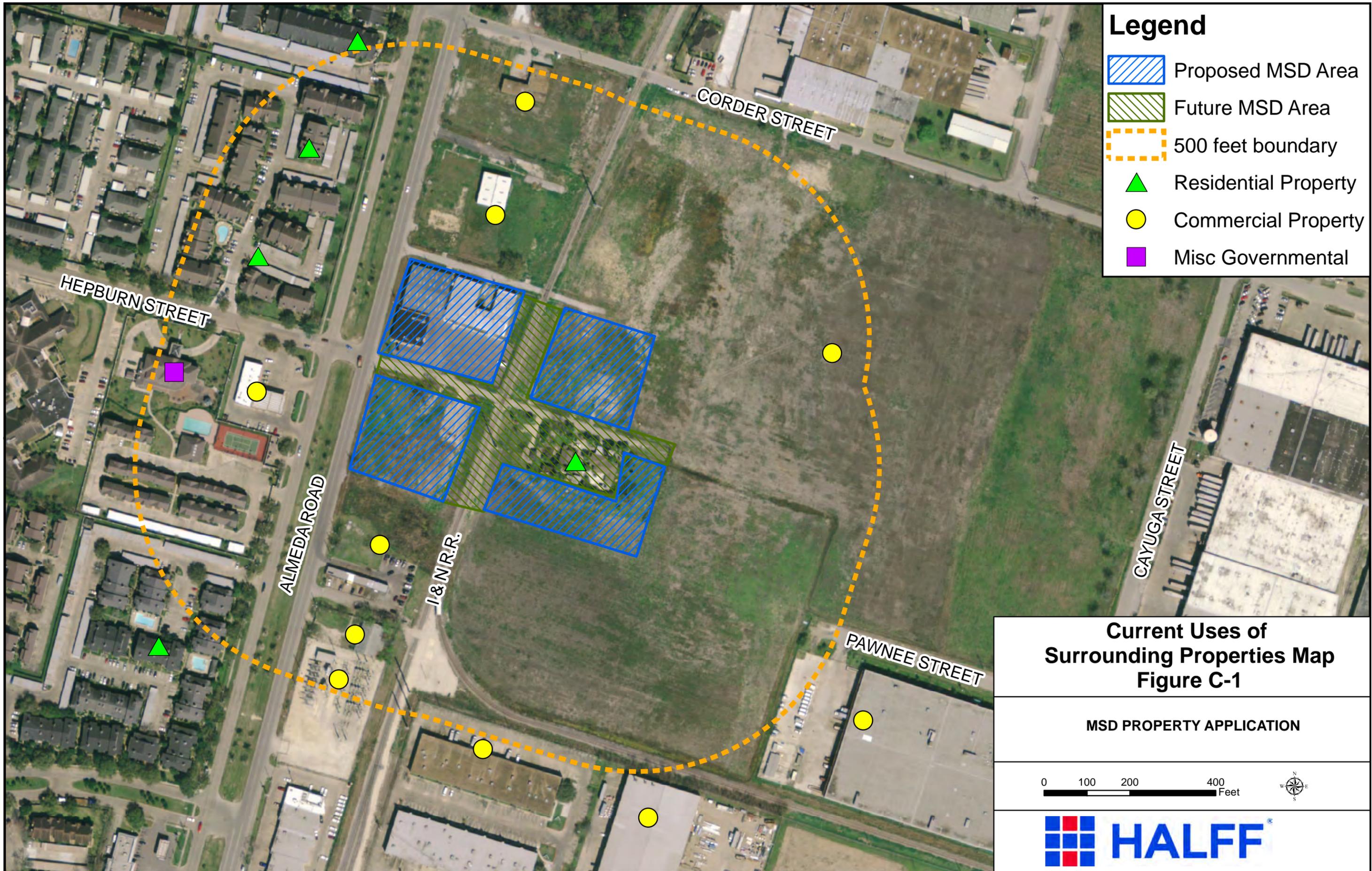
Figure **B-21**

Appendix C

A description of the current use, and, to the extent known, the anticipated uses, of the designated property and properties within 500 feet of the boundary of the designated property.

The designated property consists of approximately 5.5 acres of land located at 7405 Almeda Road in Houston, Harris County, Texas. The current owner of the subject property is UT System. Approximately 25 percent of the property is currently covered by building foundations and paved parking areas associated with three commercial structures which were formerly located on the northwest portion of the designated property. The remainder of the designated property is undeveloped. The anticipated future use of the property is for a portion of a medical center campus development.

The uses of the properties within 500-feet of the designated property are undeveloped land, retail property, commercial property, railroad right of way, state highway right of way, city street right of way, and multi-family residential. The properties to the north of the designated property are commercial and vacant land. Properties to the west are Almeda Road and then retail and multi-family residential. Properties to the south are commercial and vacant land and properties to the east are a railroad right of way then vacant land and residential properties. Figure C-1 shows the uses of the designated property and properties within 500 feet of the boundary of the designated property.



Legend

-  Proposed MSD Area
-  Future MSD Area
-  500 feet boundary
-  Residential Property
-  Commercial Property
-  Misc Governmental

Current Uses of Surrounding Properties Map Figure C-1

MSD PROPERTY APPLICATION



Appendix D (TCEQ MSD Reference No. 5)

For each contaminant of concern within the ingestion protective concentration level exceedence zone, to the extent known, provide the following:

- a. A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including specification of the horizontal area and the minimum and maximum depth below ground surface.**
- b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.**
- c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).**

Groundwater and groundwater screening samples collected in October and November 2008 indicated that concentrations of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, 1,1-dichloroethene, benzene, ethylbenzene, toluene, and m,p-xylenes, o-xylenes were present in groundwater at concentrations which exceeded the TRRP Tier 1 Residential ingestion ($^{GW}GW_{Ing}$) PCLs. The highest concentrations of COCs were identified in monitor wells MW-2, MW-4, and MW-9d in the source area of the 7405 Almeda Tract, and in MW-10d located on the western edge of the Pawnee Tract. The COCs were generally present in the groundwater from a depth of 13 to 39-feet bgs. The COC concentrations in groundwater and groundwater screening samples, along with the ingestion PCLs and the non-ingestion PCLs are shown on Table D-1 and Table D-2, respectively, in this appendix. The extent of the individual COC PCLE zones are illustrated on Figures B-4 through B-13 in Appendix B. The geochemical properties and PCLE zone sizes are discussed below in this appendix.

Based on analytical data, the COCs identified in the soils that exceed the ingestion PCLs are tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, 1,1-dichloroethene, methylene chloride, 1,1,1-trichloroethane, benzene, ethylbenzene, and toluene. The COCs are generally between 4 and 39-feet below ground surface (bgs). The COC concentrations in soil, along with the ingestion PCLs and the non-ingestion PCLs are shown in Table D-3 of this appendix. The ingestion PCLE zones are illustrated on Figures B-14 through B-21 in Appendix B. The extent of each

PCLE zone and geochemical properties of each COC are discussed below in this appendix.

Tetrachloroethene

Groundwater

The ingestion PCL for tetrachloroethene in groundwater is 0.005 mg/L. The non-ingestion PCL is 330 mg/L. The maximum concentration from the most recent data of 8.43 mg/L was identified in monitor well MW-7. The ingestion PCLE zone for tetrachloroethene is approximately 550 feet in length by 200 feet in width, as shown on Figure B-4, Appendix B. There is no non-ingestion PCLE zone.

Tetrachloroethene has a specific gravity greater than one, which indicates that tetrachloroethene, in NAPL form, will sink in groundwater. Tetrachloroethene has a solubility of 200 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for tetrachloroethene in soil is 0.050 mg/kg. The non-ingestion PCLs are 98 mg/kg for surface soils and 620 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 3.27 mg/kg was identified in soil boring SB-21 (9-10 ft.). The soil ingestion PCLE zones are approximately 120 feet in length by 60 feet in width, 120 feet in length and 60 feet in width, and 60 feet in length by 50 feet in width and are shown on Figure B-14, Appendix B. There is no non-ingestion PCLE zone.

Trichloroethene

Groundwater

The ingestion PCL for trichloroethene in groundwater is 0.005 mg/L. The non-ingestion PCL is 160 mg/L. The maximum concentration from the most recent data of 2.84 mg/L was identified in monitor well MW-7. The ingestion PCLE zone for trichloroethene is approximately 475 feet in length by 125 feet in width, as shown on Figure B-5, Appendix B. There is no non-ingestion PCLE zone.

Trichloroethene has a specific gravity greater than one, which indicates that trichloroethene, in NAPL form, will sink in groundwater. Trichloroethene has a solubility of 1,100 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for trichloroethene in soil is 0.034 mg/kg. The non-ingestion PCLs are 150 mg/kg for surface soils and 210 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 2.04 mg/kg was identified in soil boring SB-21 (3-4 ft.). The soil ingestion PCLE zone is approximately 120 feet in length and 60 feet in width and is shown on Figure B-15, Appendix B. There is no non-ingestion PCLE zone.

Cis-1,2-dichloroethene

Groundwater

The ingestion PCL for cis-1,2-dichloroethene in groundwater is 0.07 mg/L. The non-ingestion PCL is 16,000 mg/L. The maximum concentration from the most recent data of 24.4 mg/L was identified in monitor well MW-2. The ingestion PCLE zones for cis-1,2-dichloroethene are approximately 600 feet in length by 150 feet in width and 40 feet in length by 40 feet in width, as shown on Figure B-6, Appendix B. There is no non-ingestion PCLE zone.

Cis-1,2-dichloroethene has a specific gravity greater than one, which indicates that cis-1,2-dichloroethene, in NAPL form, will sink in groundwater. Cis-1,2-dichloroethene has a solubility of 4,930 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for cis-1,2-dichloroethene in soil is 0.25 mg/kg. The non-ingestion PCLs are 770 mg/kg for surface soils and 12,000 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 20.1 mg/kg was identified in soil boring SB-12 (15-16 ft.). The soil ingestion PCLE zone is approximately 275 feet in length and 50 feet in width and is shown on Figure B-16, Appendix B. There is no non-ingestion PCLE zone.

Trans-1,2-dichloroethene

Groundwater

The ingestion PCL for trans-1,2-dichloroethene in groundwater is 0.1 mg/L. The non-ingestion PCL is 770 mg/L. The maximum concentration from the most recent data of 0.200 mg/L was identified in monitor well MW-2. The ingestion PCLE zone for trans-

1,2-dichloroethene is approximately 75 feet in length by 50 feet in width, as shown on Figure B-7, Appendix B. There is no non-ingestion PCLE zone.

Trans-1,2-dichloroethene has a specific gravity greater than one, which indicates that trans-1,2-dichloroethene, in NAPL form, will sink in groundwater. Trans-1,2-dichloroethene has a solubility of 6,300 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for trans-1,2-dichloroethene in soil is 0.49 mg/kg. The non-ingestion PCLs are 580 mg/kg for surface soils and 920 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 0.0494 mg/kg was identified in soil boring SB-12 (15-16 ft.). There is no soil ingestion or non-ingestion trans-1,2-dichloroethene PCLE zone at the site.

Vinyl Chloride

Groundwater

The ingestion PCL for vinyl chloride in groundwater is 0.002 mg/L. The non-ingestion PCL is 3.6 mg/L. The maximum concentration from the most recent data of 11.4 mg/L was identified in monitor well MW-9d. The ingestion PCLE zones for vinyl chloride are approximately 710 feet in length by 200 feet in width and 40 feet in length by 40 feet in width, as shown on Figure B-8, Appendix B. The non-ingestion PCLE zone for vinyl chloride is approximately 120 feet in length by 50 feet in width.

Vinyl chloride has a specific gravity less than one, which indicates that vinyl chloride, in NAPL form, will float on the groundwater. Vinyl chloride has a solubility of 2,760 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for vinyl chloride in soil is 0.022 mg/kg. The non-ingestion PCLs are 3.7 mg/kg for surface soils and 41 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 2.79 mg/kg was identified in soil boring SB-12 (1-2 ft.). The soil ingestion PCLE zone is approximately 160 feet in length and 50 feet in width and is shown on Figure B-17, Appendix B. There is no non-ingestion PCLE zone.

1,1-dichloroethene

Groundwater

The ingestion PCL for 1,1-dichloroethene in groundwater is 0.007 mg/L. The non-ingestion PCL is 1,700 mg/L. The maximum concentration from the most recent data of 0.127 mg/L was identified in monitor well MW-2. The ingestion PCLE zone for 1,1-dichloroethene is approximately 300 feet in length by 80 feet in width, as shown on Figure B-9, Appendix B. There is no non-ingestion PCLE zone.

1,1-dichloroethene has a specific gravity greater than one, which indicates that 1,1-dichloroethene, in NAPL form, will sink in groundwater. 1,1-dichloroethene has a solubility of 2,400 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for 1,1-dichloroethene in soil is 0.05 mg/kg. The non-ingestion PCLs are 2,300 mg/kg for surface soils and 5,200 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 0.17 mg/kg was identified in soil boring SB-12 (15-16 ft.). The soil ingestion PCLE zone is approximately 50 feet in length and 25 feet in width. There is no non-ingestion PCLE zone.

Benzene

Groundwater

The ingestion PCL for benzene in groundwater is 0.005 mg/L. The non-ingestion PCL is 180 mg/L. The maximum concentration from the most recent data of 0.631 mg/L was identified in monitor well MW-9d. The ingestion PCLE zone for benzene is approximately 325 feet in length by 100 feet in width, as shown on Figure B-10, Appendix B. There is no non-ingestion PCLE zone.

Benzene has a specific gravity less than one, which indicates that benzene, in NAPL form, will float on the groundwater. Benzene has a solubility of 1,770 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for benzene in soil is 0.026 mg/kg. The non-ingestion PCLs are 66 mg/kg for surface soils and 160 mg/kg for subsurface soils. The highest concentration (in

unsaturated soil) of 0.546 mg/kg was identified in soil boring SB-12 (1-2 ft.). The soil ingestion PCLE zones are approximately 50 feet in length and 40 feet in width and 40 feet in length by 40 feet in width, as shown on Figure B-18, Appendix B. There is no non-ingestion PCLE zone.

Ethylbenzene

Groundwater

The ingestion PCL for ethylbenzene in groundwater is 0.7 mg/L. The non-ingestion PCL is 16,000 mg/L. The maximum concentration from the most recent data of 2.68 mg/L was identified in monitor well MW-4. The ingestion PCLE zone for ethylbenzene is approximately 75 feet in length by 50 feet in width, as shown on Figure B-11, Appendix B. There is no non-ingestion PCLE zone.

Ethylbenzene has a specific gravity less than one, which indicates that ethylbenzene, in NAPL form, will float on the groundwater. Ethylbenzene has a solubility of 169 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for ethylbenzene in soil is 7.6 mg/kg. The non-ingestion PCLs are 5,300 mg/kg for surface soils and 15,000 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 23.8 mg/kg was identified in soil boring SB-17 (15-16 ft.). The soil ingestion PCLE zone is approximately 50 feet in length and 40 feet in width and is shown on Figure B-19, Appendix B. There is no non-ingestion PCLE zone.

Toluene

Groundwater

The ingestion PCL for toluene in groundwater is 1.0 mg/L. The non-ingestion PCL is 78,000 mg/L. The maximum concentration from the most recent data of 109 mg/L was identified in monitor well MW-4. The ingestion PCLE zone for toluene is approximately 175 feet in length by 50 feet in width, as shown on Figure B-12, Appendix B. There is no non-ingestion PCLE zone.

Toluene has a specific gravity less than one, which indicates that toluene, in NAPL form, will float on the groundwater. Toluene has a solubility of 530 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for toluene in soil is 8.2 mg/kg. The non-ingestion PCLs are 6,000 mg/kg for surface soils and 77,000 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 415 mg/kg was identified in soil boring SB-17 (15-16 ft.). The soil ingestion PCLE zones is approximately 50 feet in length and 40 feet in width and is shown on Figure B-20, Appendix B. There is no non-ingestion PCLE zone.

m,p-Xylenes

Groundwater

The ingestion PCL for m,p-xylenes in groundwater is 10.0 mg/L. The non-ingestion PCL is 1,500 mg/L. The maximum concentration from the most recent data of 9.0 mg/L was identified in monitor well MW-4. The ingestion PCLE zone for m,p-xylenes is approximately 50 feet in length by 25 feet in width, as shown on Figure B-13, Appendix B. There is no non-ingestion PCLE zone.

M,p-xylenes have a specific gravity less than one, which indicates that m,p-xylenes, in NAPL form, will float on the groundwater. M,p-xylenes have a solubility of 198 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for m,p-xylenes in soil is 110 mg/kg. The non-ingestion PCLs are 1,500 mg/kg for surface soils and 1,500 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 84.6 mg/kg was identified in soil boring SB-17 (15-16 ft.). There is no soil ingestion or non-ingestion PCLE zone for m,p-xylenes.

o-Xylenes

Groundwater

The ingestion PCL for o-xylenes in groundwater is 10.0 mg/L. The non-ingestion PCL is 120,000 mg/L. The maximum concentration from the most recent data of 3.99 mg/L was identified in monitor well MW-4. The ingestion PCLE zone for o-xylenes is approximately 50 feet in length by 25 feet in width, as shown on Figure B-13, Appendix B. There is no non-ingestion PCLE zone.

o-xylenes have a specific gravity less than one, which indicates that o-xylenes, in NAPL form, will float on the groundwater. o-xylenes have a solubility of 178 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for o-xylenes in soil is 71 mg/kg. The non-ingestion PCLs are 10,000 mg/kg for surface soils and 11,000 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 29.9 mg/kg was identified in soil boring SB-17 (15-16 ft.). There is no soil ingestion or non-ingestion PCLE zone for o-xylenes.

Methylene Chloride

Groundwater

The ingestion PCL for methylene chloride in groundwater is 0.005 mg/L. The non-ingestion PCL is 1,300 mg/L. Detectable concentrations of methylene chloride have not been identified in the groundwater. There is no ingestion or non-ingestion PCLE zone.

Methylene chloride has a specific gravity less than one, which indicates that methylene chloride, in NAPL form, will float on the groundwater. Methylene chloride has a solubility of 7,400 mg/L and can migrate in groundwater.

Soil

The ingestion PCL for trichloroethene in soil is 0.013 mg/kg. The non-ingestion PCLs are 390 mg/kg for surface soils and 760 mg/kg for subsurface soils. The highest concentration (in unsaturated soil) of 0.016 mg/kg was identified in soil boring SB-12 (15-16 ft.). The soil ingestion PCLE zone is approximately 75 feet in length and 25 feet in width and is shown on Figure B-21, Appendix B. There is no non-ingestion PCLE zone.

Table D-1
Summary of Analytical Results
Groundwater Organics
Chemicals of Concern

Chemicals of Concern (COCs)		Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,2-Dichloroethane	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	Sec-butylbenzene	Tert-Butylbenzene	Toluene	
Tier 1 ^{GW} GW _{ing} Critical Residential PCL without MSD		0.005	0.005	0.07	0.1	0.002	0.005	4.9	9.8	0.007	0.24	1.2	15	1.5	2	0.005	0.7	2.4	10.0	0.98	0.49	10.0	2.4	0.98	0.98	1.0	
Tier 1 ^{Air} GW _{inh-v} Critical Residential PCL with MSD		500	120	16,000	770	3.8	33	7,200	120,000	1,700	190	130	1,000,000	1,500	670,000	180	16,000	4,400	9,400	6,000	320	120,000	4,600	3,900	2,500	64,000	
Tier 1 ^{GW} GW _{ing} Critical Commercial/Industrial PCL without MSD		0.005	0.005	0.07	0.1	0.002	0.005	15	29	0.007	0.73	3.7	44	4.4	5.8	0.005	0.7	7.3	10.0	2.9	1.5	10.0	7.3	2.9	2.9	1.0	
Tier 1 ^{Air} GW _{inh-v} Critical Commercial/Industrial PCL with MSD		840	170	23,000	1,100	6.4	55	10,000	160,000	2,300	270	180	1,000,000	2,100	940,000	300	22,000	6,200	13,000	8,500	440	1,000,000	6,400	5,400	3,500	89,000	
Tier 2 ^{Air} GW _{inh-v} Critical Residential PCL with MSD		NE	NE	NE	NE	6.04	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Tier 2 ^{Air} GW _{inh-v} Critical Commercial/Industrial PCL with MSD		NE	NE	NE	NE	10.2	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Well ID	Sample Date	Concentrations in mg/L																									
MW-6	4/27/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	0.0014J	ND	ND	ND	0.00075J	0.0051	ND	0.0127	0.001J	ND	0.0044	ND	ND	ND	ND	0.0085
	10/25/2007	ND	ND	ND	ND	0.0026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/7/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/13/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/20/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2009	0.007	ND	0.024	ND	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	4/27/2007	10.9	2.14	1.01	0.0838	1.13	ND	ND	ND	0.0233	0.0058	0.0016J	ND	ND	ND	0.00079J	0.0054	0.0014J	0.0139	0.0014J	ND	0.0048	ND	0.0006J	ND	0.0098	
	10/25/2007	12.6	3.29	1.71	0.0863	0.993	ND	ND	ND	0.0224	ND	ND	0.0968	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10/7/2008	11.0	3.09	1.41	0.0848	0.704	ND	ND	ND	0.0212	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1/13/2009	10.4	2.76	1.04	0.0690	0.587	ND	ND	ND	0.0176	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4/20/2009	10.4	2.84	0.975	0.0652	0.570	ND	ND	ND	0.0173	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	9/22/2009	8.43	2.84	0.673	0.0633	0.242	ND	ND	ND	0.0152	ND	ND	ND	ND	ND	ND	0.01	ND	0.026	ND	ND	0.012	ND	ND	ND	0.202	
MW-7d	10/25/2007	0.0628	0.0208	0.164	0.0051	0.0306	ND	0.302	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8d	10/25/2007	ND	ND	0.573	0.0063	0.391	ND	ND	ND	0.0092	ND	ND	ND	ND	ND	0.0541	0.031	ND	ND	ND	0.0056	ND	ND	ND	ND	0.0067	
MW-9d	10/25/2007	ND	ND	3.29	ND	7.14	ND	0.244	ND	0.0657	0.102	ND	0.107	ND	0.111	0.409	0.346	ND	ND	ND	ND	0.119	ND	ND	ND	0.462	
	10/9/2008	0.0073	ND	32.0	0.251	28.3	ND	1.05	ND	0.318	0.127	0.0653	ND	0.026	0.882	0.933	0.362	0.0168	0.161	0.0352	0.0155	0.124	ND	0.008	ND	1.53	
	1/13/2009	ND	ND	33.7	0.297	34.8	ND	1.31	ND	0.413	0.173	0.0868	ND	ND	1.00	0.948	0.192	0.0146	0.167	0.0294	0.0324	0.112	0.0056	0.009	ND	1.64	
	4/20/2009	ND	ND	19.9	0.162	35.2	ND	0.961	ND	0.187	0.173	0.0869	ND	ND	0.562	0.893	0.434	ND	0.161	ND	ND	0.138	ND	ND	ND	1.32	
	9/22/2009	0.0216	ND	1.78	0.033	11.4	ND	0.417	ND	0.0157	0.0662	0.0356	0.0191	ND	ND	0.631	0.368	0.0189	0.136	0.0375	0.0132	0.141	ND	0.006	ND	1.31	

**Table D-1
Summary of Analytical Results
Groundwater Organics
Chemicals of Concern**

Chemicals of Concern (COCs)	Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,2-Dichloroethane	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	Sec-butylbenzene	Tert-Butylbenzene	Toluene	
Tier 1 ^{GW} Critical Residential PCL without MSD	0.005	0.005	0.07	0.1	0.002	0.005	4.9	9.8	0.007	0.24	1.2	15	1.5	2	0.005	0.7	2.4	10.0	0.98	0.49	10.0	2.4	0.98	0.98	1.0	
Tier 1 ^{Air} Critical Residential PCL with MSD	500	120	16,000	770	3.8	33	7,200	120,000	1,700	190	130	1,000,000	1,500	670,000	180	16,000	4,400	9,400	6,000	320	120,000	4,600	3,900	2,500	64,000	
Tier 1 ^{GW} Critical Commercial/Industrial PCL without MSD	0.005	0.005	0.07	0.1	0.002	0.005	15	29	0.007	0.73	3.7	44	4.4	5.8	0.005	0.7	7.3	10.0	2.9	1.5	10.0	7.3	2.9	2.9	1.0	
Tier 1 ^{Air} Critical Commercial/Industrial PCL with MSD	840	170	23,000	1,100	6.4	55	10,000	160,000	2,300	270	180	1,000,000	2,100	940,000	300	22,000	6,200	13,000	8,500	440	1,000,000	6,400	5,400	3,500	89,000	
Tier 2 ^{Air} Critical Residential PCL with MSD	NE	NE	NE	NE	6.04	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Tier 2 ^{Air} Critical Commercial/Industrial PCL with MSD	NE	NE	NE	NE	10.2	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Well ID	Sample Date	Concentrations in mg/L																								
MW-10d	10/25/2007	0.129	0.0617	1.54	0.0135	2.92	ND	0.155	0.0145	0.0104	ND	ND	ND	ND	0.0418	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/7/2008	0.107	0.0487	1.48	0.0147	1.43	ND	0.106	0.0088	0.0052	ND	ND	ND	ND	0.0262	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/13/2009	0.18	0.07	1.94	0.0161	3.1	ND	0.172	0.0118	0.0084	ND	ND	ND	ND	0.0519	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/20/2009	0.40	0.129	2.02	0.0184	4.31	ND	0.331	ND	0.0102	ND	ND	ND	ND	0.0812	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/22/2009	0.247	0.151	1.16	0.0177	3.3	ND	0.155	0.0166	0.0091	ND	ND	ND	ND	0.079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0101
MW-1P	11/3/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2P	11/3/2008	0.273	0.0741	0.131	ND	0.0106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/13/2009	0.0984	0.0302	0.0532	ND	0.0053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/20/2009	0.254	0.0784	0.139	ND	0.0190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/21/2009	0.145	0.0606	0.180	ND	0.0300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

NE = Not Established

ND = Analyte not detected at or above the Sample Quantification Limit

Bold indicates the COC exceeds the Tier 1 GWGWing Critical Residential PCL

Highlighted cells indicates the COC exceeds the Tier 1 AirGWInh-V Critical PCL

Table D-2
Summary of Analytical Results
Groundwater Screening Organics
Chemicals of Concern

Chemicals of Concern (COCs)	Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,2-Dichloroethane	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	Sec-butylbenzene	Tert-Butylbenzene	Toluene	
Tier 1 ^{GW} GW _{ing} Critical PCL without MSD	0.005	0.005	0.07	0.1	0.002	0.005	4.9	9.8	0.007	0.24	1.2	15	1.5	2	0.005	0.7	2.4	10.0	0.98	0.49	10.0	2.4	0.98	0.98	1.0	
Tier 1 ^{Air} GW _{inh-v} Critical PCL with MSD	500	120	16,000	770	3.8	33	7,200	120,000	1,700	190	130	1,000,000	1,500	670,000	180	16,000	4,400	9,400	6,000	320	120,000	4,600	3,900	2,500	64,000	
Tier 1 ^{GW} GW _{ing} Critical Commercial/Industrial PCL without MSD	0.005	0.005	0.07	0.1	0.002	0.005	15	29	0.007	0.73	3.7	44	4.4	5.8	0.005	0.7	7.3	10.0	2.9	1.5	10.0	7.3	2.9	2.9	1.0	
Tier 1 ^{Air} GW _{inh-v} Critical Commercial/Industrial PCL with MSD	840	170	23,000	1,100	6.4	55	10,000	160,000	2,300	270	180	1,000,000	2,100	940,000	300	22,000	6,200	13,000	8,500	440	1,000,000	6,400	5,400	3,500	89,000	
Tier 2 ^{Air} GW _{inh-v} Critical Residential PCL with MSD	NE	NE	NE	NE	6.04	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Tier 2 ^{Air} GW _{inh-v} Critical Commercial/Industrial PCL with MSD	NE	NE	NE	NE	10.2	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
Well ID	Sample Date	Concentrations in mg/L																								
GP-3P	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
GP-4P	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
GP-5P	10/8/2008	ND	ND	0.0276	ND	0.0131	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
GP-6P	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
GP-7P	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
GP-8P	11/20/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
GP-9P	11/20/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
GP-10P	11/20/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

NOTES:

NE = Not established

ND = Analyte not detected at or above the Sample Quantification Limit

Bold indicates the COC exceeds the Tier 1 GWGWing Critical Residential PCL

Highlighted cells indicates the COC exceeds the Tier 1 AirGWInh-V Critical PCL

Table D-3
Summary of Analytical Results
Soil Organics
Chemicals of Concern

Chemicals of Concern (COCs)		Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Toluene	Methylene Chloride	N-butylbenzene	TPH						
		C6-C12	>C12-C28	>C28-C35	C6-C35																											
Sample ID	Sample Date	Concentrations in mg/kg																														
		Surface Soil																														
Tier 1 Residential ^{GW} Soil _{ing} PCL without MSD		0.05	0.034	0.25	0.49	0.022	18	31	0.05	9.7	53	29	4.9	0.026	7.6	350	110	45	31	71	230	85	8.2	0.013	120	65*	200*	--				
Tier 1 Residential ^{Tot} Soil _{Comb} PCL with MSD - Surface Soils		120	120	770	590	3.7	4,500	27,000	2,300	130	110	34,000	5,900	66	5,300	4,300	1,500	2,200	220	10,000	3,700	2,100	6,000	390	1,900	1,600	2,300	--				
Tier 1 Commercial/Industrial ^{GW} Soil _{ing} PCL without MSD		0.05	0.034	0.25	0.49	0.022	55	92	0.05	4.8	22	87	15	0.026	7.6	1,000	110	130	93	71	690	250	8.2	0.013	360	190	590	--				
Tier 1 Commercial/Industrial ^{Tot} Soil _{Comb} PCL with MSD - Surface Soils		410	210	6,400	1,200	15.0	8,200	140,000	6,400	5,200	1,300	130,000	41,000	180	18,000	11,000	13,000	7,300	360	91,000	8,800	6,700	42,000	960	6,900	3,900	12,000	--				
SB-7 (14-15)	4/15/2007	0.0056	ND	0.0032	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	ND	ND	ND	ND	NA	NA	NA	NA			
SB-10 (3-4)	4/15/2007	0.0063	ND	ND	ND	0.0032	ND	ND	ND	0.142	0.0147	0.0211	ND	0.0066	0.0109	0.004	0.0257	0.011	0.004	0.0363	0.0352	0.0027	0.0067	ND	0.0031	NA	NA	NA	NA			
SB-12 (1-2)	4/15/2007	0.0126	ND	1.67	0.0079	2.79	0.0334	0.0126	0.0175	1.62	0.975	ND	0.542	0.546	0.132	0.088	0.382	0.274	0.0747	0.108	8.62	0.134	0.785	ND	0.116	NA	NA	NA	NA			
SB-14 (4-5)	4/26/2007	0.19	0.0216	0.0109	ND	0.0034J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-14 (9-10)	4/26/2007	ND	ND	0.0055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-15 (3-4)	4/26/2007	ND	ND	0.0191	ND	0.0527	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-15 (7-8)	4/26/2007	ND	ND	0.0487	0.0017J	0.0989	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-16 (1-2)	4/24/2007	ND	0.002J	0.0235	ND	0.0056	0.0019J	ND	ND	0.0023J	0.0016J	ND	ND	0.0018J	0.0017J	0.007	ND	0.0161	ND	ND	0.0026J	0.0138	0.0057	ND	0.0126	NA	NA	NA	NA			
SB-16 (8-9)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067	0.0069	ND	0.0048J	NA	NA	NA	NA
SB-16 (12-13)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0015J	ND	ND	NA	NA	NA	NA		
SB-17 (1-2)	4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	0.0039J	ND	ND	ND	ND	0.0042J	0.011	0.0033J	0.0024J	ND	ND	ND	0.0033J	ND	ND	0.008	NA	NA	NA	NA			
SB-17 (7-8)	4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-18 (1-2)	4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018J	ND	0.0059J	ND	ND	ND	0.0023J	ND	0.356	ND	ND	NA	NA	NA	NA			
SB-18 (8-9)	4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035J	ND	ND	ND	ND	ND	0.0231	ND	ND	NA	NA	NA	NA			
SB-19 (3-4)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-19 (9-10)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-20 (1-2)	4/24/2007	0.0288	0.0187	0.0227	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018J	0.0035J	ND	0.0134	ND	ND	0.0048J	ND	ND	0.0574	ND	ND	NA	NA	NA	NA			
SB-20 (8-9)	4/24/2007	0.0148	0.0051J	0.0021J	ND	0.0149	0.0020J	ND	ND	ND	ND	ND	ND	0.0028J	ND	ND	ND	ND	ND	ND	ND	ND	0.0025J	ND	ND	NA	NA	NA	NA			
SB-21 (3-4)	4/25/2007	2.28	2.04	0.727	0.0106	0.17	ND	ND	0.0024J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-21 (9-10)	4/25/2007	3.27	1.15	0.724	0.0127	0.281J	ND	ND	0.0030J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-21 (13-14)	4/25/2007	2.68	0.698	0.376J	0.0198	0.171J	ND	ND	0.0043J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-22 (1-2)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-22 (5-6)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-22 (12-13)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA			
SB-8T (7.5-10)	10/23/2007	0.273	0.167	2.27	0.0155	0.0072	ND	ND	ND	0.018	0.008	ND	ND	ND	ND	ND	0.0385	ND	0.0686	ND	ND	ND	0.0175	ND	ND	<33.2	<33.2	<33.2	<33.2			

**Table D-3
Summary of Analytical Results
Soil Organics
Chemicals of Concern**

Chemicals of Concern (COCs)		Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Toluene	Methylene Chloride	N-butylbenzene	TPH					
		C6-C12	>C12-C28	>C28-C35	C6-C35																										
Sample ID	Sample Date	Concentrations in mg/kg																													
SB-9T (7.5-10)	10/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<33.8	<33.8	<33.8	<33.8
SB-11T (10-12.5)	10/23/2007	0.948	0.0269	4.54	0.0107	ND	0.0939	0.007	ND	0.993	0.216	1.84	1.65	0.0149	0.124	0.03	0.898	0.107	0.0067	0.533	ND	ND	0.231	0.108	0.0189	32.2	<31.7	<31.7	32.2		
MW-8D (12.5-15)	10/23/2007	ND	ND	0.0625	ND	0.0132	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.4	<30.4	<30.4	<30.4	
MW-10D (12.5-15)	10/23/2007	0.0079	ND	0.0145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.7	<29.7	<29.7	<29.7	
GP-1P (10-12)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.2	<30.2	<30.2	<30.2	
GP-2P (10-12)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.5	<29.5	<29.5	<29.5	
GP-3P (10-12)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.5	<30.5	<30.5	<30.5	
GP-4P (10-12)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
GP-5P (10-12)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
GP-6P (12-14)	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.2	<29.2	<29.2	<29.2	
GP-7P (10-12)	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
MW-2P (10-12.5)	10/30/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
Subsurface Soil																															
Tier 1 Residential ^{GW} Soil _{ing} PCL without MSD		0.05	0.034	0.25	0.49	0.022	18	31	0.05	9.7	53	29	4.9	0.026	7.6	350	110	45	31	71	230	85	8.2	0.013	120	65*	200*	--	--		
Tier 1 Residential ^{Air} Soil _{inh-v} PCL with MSD - Subsurface Soils		940	210	12,000	920	41	6,100	150,000	5,200	160	120	110,000	58,000	160	15,000	9,200	1,500	6,300	270	11,000	6,900	5,700	77,000	760	6,600	3,100	15,000	--	--		
Tier 1 Commercial/Industrial ^{GW} Soil _{ing} PCL without MSD		0.05	0.034	0.25	0.49	0.022	55	92	0.05	4.8	22	87	15	0.026	7.6	1,000	110	130	93	71	690	250	8.2	0.013	360	190	590	--	--		
Tier 1 Commercial/Industrial ^{Air} Soil _{inh-v} PCL with MSD - Subsurface Soils		1,600	210	17,000	1,300	72	8,600	210,000	7,300	21,000	3,500	160,000	81,000	270	21,000	13,000	13,000	6,300	370	95,000	9,600	8,000	88,000	1,300	9,200	4,300	21,000	--	--		
SB-1 (15-16)	4/14/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB-2 (15-16)	4/14/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB-3 (15-16)	4/14/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB-5 (15-16)	4/15/2007	0.0023	ND	0.0044	ND	0.0011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB-6 (16-17)	4/15/2007	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
SB-9 (15-16)	4/15/2007	1.28	0.0121	0.0223	ND	0.0024	ND	ND	ND	0.002	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016	ND	ND	NA	NA	NA	NA		
SB-12 (15-16)	4/15/2007	0.0033	0.0015	20.1	0.0494	1.76	0.457	0.0024	0.17	0.063	0.0259	3.36	1.9	0.107	0.0046	0.003	0.0191	0.005	0.0052	0.0083	0.027	0.0034	0.943	0.0116	0.0076	NA	NA	NA	NA		
SB-15 (16-17)	4/26/2007	0.0871	0.0596	0.371	0.0043	0.0847	0.0011J	ND	0.0018J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA		
SB-17 (15-16)	4/25/2007	0.295	ND	0.587	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0983J	23.8	0.398	84.6	0.063J	ND	29.9	ND	ND	415	ND	ND	NA	NA	NA	NA		
SB-18 (15-16)	4/25/2007	ND	0.0029J	0.0207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA		
SB-19 (15-16)	4/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA		
SB-20 (15-16)	4/24/2007	ND	ND	ND	ND	ND	0.0066	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA		
Saturated Soil/NAPL Evaluation																															

**Table D-3
Summary of Analytical Results
Soil Organics
Chemicals of Concern**

Chemicals of Concern (COCs)	Tetrachloroethene	Trichloroethene	Cis-1,2-dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethane	Chloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	4-Methyl-2-pentanone	Benzene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	N-propylbenzene	Naphthalene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Toluene	Methylene Chloride	N-butylbenzene	TPH					
	C6-C12	>C12-C28	>C28-C35	C6-C35																										
Sample ID	Sample Date	Concentrations in mg/kg																												
TRRP Residual Saturation Limit (Calculated for each compound) ¹		16,229	14,644	12,838	12,566	9,107	11,758	8,979	12,181	8,762	8,637	8,055	7,979	8,766	8,670	8,620	8,812	8,621	9,626	8,802	8,541	8,608	8,670	13,267	8,601	--	--	--		
SB-4 (19-20)	4/15/2007	ND	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB-8 (19-20)	4/15/2007	9,200	65.4	90.8	ND	ND	ND	ND	ND	19.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
SB-8T (35-37.5)	10/23/2007	0.149	ND	0.0323	ND	0.0508	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.6	<29.6	<29.6	<29.6
SB-9T (35-37.5)	10/23/2007	ND	ND	0.0182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<28.7	<28.7	<28.7	<28.7
SB-11 (17-18)	4/15/2007	519	3.51	95.2	0.0856	1.2	2.19	ND	1.37	21.4	11.4	ND	6.17	0.592	9.61	3.02	40.5J	7.94	0.426	18.4J	0.594	0.667	15.1	0.965	1.79	NA	NA	NA	NA	
SB-11T (35-37.5)	10/23/2007	0.661	0.0404	0.187	ND	0.0154	ND	ND	ND	0.007	ND	ND	ND	ND	0.0083	ND	0.0272	ND	ND	0.0109	ND	ND	0.0133	ND	ND	<30.9	<30.9	<30.9	<30.9	
SB-15 (36-38)	4/26/2007	ND	ND	1.01	0.0123	4.94	0.252	ND	0.0056	ND	0.0040J	ND	ND	0.153	0.018	0.0016J	0.0131	0.0022J	ND	0.0035	ND	ND	0.123	ND	ND	NA	NA	NA	NA	
SB-15 (38-40)	4/26/2007	0.435	0.0221	1.92	0.0142	3.81	0.111	ND	0.019	ND	ND	ND	ND	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.0101	ND	ND	NA	NA	NA	NA	
MW-7D (17.5-20)	10/23/2007	1.59	0.284	0.185	0.0102	0.101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.2	<30.2	<30.2	<30.2	
MW-7D (35-37.5)	10/23/2007	ND	ND	0.0421	ND	ND	0.0061	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.3	<29.3	<29.3	<29.3	
MW-8D (37.5-40)	10/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<34.0	<34.0	<34.0	<34.0	
MW-9D (17.5-20)	10/23/2007	ND	ND	1.06	ND	0.0191	0.0142	ND	0.0081	0.217	0.108	0.369	0.324	0.0077	ND	0.006	0.0154	0.0188	0.0099	0.0061	0.0142	0.0194	0.0573	0.0102	0.0344	120	<29.9	<29.9	120	
MW-9D (35-37.5)	10/23/2007	ND	ND	0.0101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.0	<30.0	<30.0	<30.0	
MW-10D (20-22.5)	10/23/2007	ND	ND	0.0145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.0	<30.0	<30.0	<30.0	
MW-10 (35-37.5)	10/23/2007	0.0133	ND	0.0402	ND	0.0508	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30.1	<30.1	<30.1	<30.1	
GP-4P (20-22)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
GP-5P (20-22)	10/8/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
GP-6P (22-24)	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<29.2	<29.2	<29.2	<29.2
GP-7P (20-22)	10/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Notes:
ND = Analyte not detected at or above the Sample Quantification Limit (SQL).
NA = Sample not analyzed for this parameter.
1 = Soil sample collected for laboratory analysis from groundwater bearing zone to evaluate potential occurrence of Non-Aqueous Phase Liquids.
***** = TRRP TPH screening level.
J = Indicates an estimated value. The analyte was detected above the Method Detection Limit but below the SQL.
Bold indicates the COC exceeds the Tier 1 Residential ^{GW}Soil_{ing} PCL. No COCs exceed Tier 1 Non Ingestion Protective Concentration Level.

**Appendix E
(TCEQ MSD Reference No. 5)**

For each contaminant of concern within the designated groundwater, to the extent know:

- a. A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.**
- b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective level, all expressed as mg/L units.**
- c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).**

A) Refer to Appendix D for a discussion of the COCs along with a discussion of the ingestion PCL exceedence zone, the non-ingestion PCL exceedence zone, and the horizontal and vertical areas of COC detection.

B) The identified COC concentrations in groundwater, the ingestion PCLs, and the non-ingestion PCLs are summarized in Tables D-1 and D-2, located in Appendix D.

C) The basic geochemical properties of the detected COCs are discussed in Appendix D.

**Appendix F
(TCEQ MSD Reference No. 5)**

A table displaying the following information for each contaminant of concern, to the extent known:

- a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.**
- b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences.**

Tables F-1 and F-2 summarize the concentration levels for the COCs in the groundwater and soil, respectively. The tables include the maximum COC concentrations, the ingestion protective concentration levels ($^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater), the non-ingestion protective concentration levels for soil ($^{Tot}Soil_{Comb}$ and $^{Air}Soil_{Ing-v}$), and groundwater ($^{Air}GW_{Inh-v}$), the critical protective concentration levels assuming no MSD is in place ($^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater), and the critical PCLs assuming that an MSD is in place ($^{Tot}Soil_{Comb}$ for soil and $^{Air}GW_{Inh-v}$ for groundwater).

It should be noted that the maximum concentrations documented in groundwater at the site were from historical sampling events. Based upon the most recent sampling data, one groundwater COC exceeding non-ingestion PCLs was documented at the designated property. Vinyl chloride concentrations exceeding the non-ingestion PCL were documented in samples collected from monitor wells MW-2 and MW-9d on the designated property.

**Table F-1
Maximum COC Concentrations
Groundwater**

Chemical Of Concern	Concentration (mg/L)	Sample ID	Date	Tier 1 ^{GW} GW _{Ing} Ingestion and Critical PCL without MSD	Tier 1 ^{Air} GW _{Inh-V} Non-ingestion PCL with MSD
Tetrachloroethene	12.6*	MW-7	10/25/2007	0.005	500
Trichloroethene	3.29*	MW-7	10/25/2007	0.005	120
cis-1,2-Dichloroethene	25.7*	MW-2	1/13/2009	0.07	16,000
trans-1,2-Dichloroethene	0.428*	MW-2	10/9/2008	0.1	770
Vinyl Chloride	34.8*	MW-9d	1/13/2009	0.002	3.8
Chloroethane	0.109	MW-4	4/27/2007	9.8	120,000
1,1-Dichloroethane	1.31	MW-9d	1/13/2009	4.9	7,200
1,1-Dichloroethene	413.00	MW-9d	1/13/2009	0.007	1,700
Benzene	0.948*	MW-9d	1/13/2009	0.005	180
Ethylbenzene	7.85*	MW-4	1/13/2009	0.7	16,000
Toluene	192*	MW-4	4/27/2007	1	64,000
m,p-Xylenes	26.2*	MW-4	1/13/2009	10	9,400
o-Xylenes	10.5*	MW-4	1/13/2009	10	120,000
2-Hexanone	0.026	MW-9d	10/9/2008	1.5	1,500
sec-Butylbenzene	0.0091	MW-2	4/27/2007	0.98	3,900
1,2,4-Trimethylbenzene	0.173	MW-4	4/20/2009	1.2	190
1,3,5-Trimethylbenzene	0.0869	MW-9d	4/20/2009	1.2	130
Isopropylbenzene	0.173	MW-4	4/27/2007	2.4	4,400
n-Prpoylbenzene	0.0375	MW-9d	9/22/2009	0.98	6,000
tert-Butylbenzene	0.0058	MW-3	10/25/2007	0.98	2,500
p-Isopropyltoluene	0.0056	MW-9d	1/13/2009	2.4	4,600
Naphthalene	0.0324	MW-9d	1/13/2009	0.49	320
2-Butanone	0.107	MW-9d	10/25/2007	15	1,000,000
4-Methyl-2-Pentanone	1.41	MW-2	10/25/2007	2	670,000

Notes:

mg/L = milligrams per Liter

Bold indicates a critical ingestion PCL exceedence without an MSD.

* = Indicates COC concentrations from historical groundwater sampling events.

Table F-2
Maximum COC Concentrations
Soil

Chemical Of Concern	Concentration (mg/kg)	Sample ID	Date	Tier 1 ^{GW} Soil _{ing} Ingestion and Critical PCL without MSD	Tier 1 ^{Tot} Soil _{Comb} Non-ingestion PCL with MSD	Tier 1 ^{Air} Soil _{Inh-V} Non-ingestion PCL with MSD
Tetrachloroethene	9,200*	SB-8 (19-20')	4/15/2007	0.05	98	620
Trichloroethene	65.4*	SB-8 (19-20')	4/15/2007	0.034	150	210
cis-1,2-Dichloroethene	95.2*	SB-11 (17-18')	4/15/2007	0.25	770	12,000
trans-1,2-Dichloroethene	0.0494	SB-12 (15-16')	4/15/2007	0.49	590	920
Vinyl Chloride	4.94*	SB-15 (36-38')	4/27/2007	0.022	3.7	41
Chloroethane	0.0126	SB-12 (1-2')	4/15/2007	31	27,000	150,000
1,1-Dichloroethane	2.19*	SB-11 (17-18')	4/15/2007	18	4,500	6,100
1,1-Dichloroethene	1.37*	SB-11 (17-18')	4/15/2007	0.05	2,300	5,200
Methylene Chloride	0.965*	SB-11 (17-18')	4/15/2007	0.013	390	760
Benzene	0.592*	SB-11 (17-18')	4/15/2007	0.026	66	160
Ethylbenzene	23.8*	SB-17 (15-16')	4/25/2007	7.6	5,300	15,000
Toluene	415*	SB-17 (15-16')	4/25/2007	8.2	6,000	77,000
m,p-Xylenes	84.6*	SB-17 (15-16')	4/25/2007	110	1,500	1,500
o-Xylenes	29.9*	SB-17 (15-16')	4/25/2007	71	10,000	11,000
Xylenes	115*	SB-17 (15-16')	4/25/2007	120	1,400	1,500
sec-Butylbenzene	0.667*	SB-11 (17-18')	4/15/2007	85	2,100	5,700
1,2,4-Trimethylbenzene	21.4*	SB-11 (17-18')	4/15/2007	49	150	160
1,3,5-Trimethylbenzene	11.4*	SB-11 (17-18')	4/15/2007	53	110	120
Isopropylbenzene	3.02*	SB-11 (17-18')	4/15/2007	350	4,300	9,200
n-Butylbenzene	1.79*	SB-11 (17-18')	4/15/2007	120	1,900	6,600
n-Prpoylbenzene	7.94*	SB-11 (17-18')	4/15/2007	45	2,200	6,300
p-Isopropyltoluene	8.62	SB-12 (1-2')	4/15/2007	230	3,700	6,900
Naphthalene	0.426	SB-11 (17-18')	4/15/2007	31	220	270
2-Butanone	3.36	SB-12 (15-16')	4/15/2007	29	34,000	110,000
4-Methyl-2-Pentanone	6.17*	SB-11 (17-18')	4/15/2007	4.9	5,900	58,000

Notes:

mg/kg = milligrams per kilogram

Bold indicates a critical ingestion PCL exceedence without an MSD.

Surface soil = For human health exposure pathways, the soil zone extending from the ground surface to 15 feet in depth for residential land use and from ground surface to 5 feet in depth for commercial/industrial land use; or to the top of the uppermost groundwater-bearing unit or bedrock, whichever is less in depth. The top of the uppermost groundwater-bearing unit is approximately 15 feet at the site.

*** = Saturated soil sample submitted for analyses to evaluate residual soil saturation (potential for mobile NAPL).**

Appendix G

A statement as to whether the plume of contamination is stable, expanding, or contracting, with the basis for that statement. If this information is not known, a statement of why the information is not known should be attached.

Groundwater monitoring has been performed at the designated property since 2007. Groundwater sampling has been performed by different consultants using various well purging and sampling techniques. The analytical results of groundwater samples collected at the site indicate minor fluctuations have occurred in concentrations of the chlorinated solvent parent COC (tetrachloroethylene). However, the concentrations have remained relatively stable over time and no evidence of plume expansion has been documented. Increases in degradation compounds (trichloroethene, cis-1,2, dichloroethene, and vinyl chloride) documented during the sampling events may be attributable to the occurrence of natural attenuation at the site. Concentrations of the fuel constituents benzene, ethylbenzene, toluene, and xylenes are stable to decreasing.

The historical source of COCs at the designated property, the truck yard and warehouse facility and the solvent facility are no longer on the 7405 Almeda Tract. Therefore, the primary source of COCs has been removed from the source property. Evidence of conditions which are favorable for natural attenuation activity was indicated by field measurements for temperature, pH, dissolved oxygen, and oxidation reduction potential recorded during groundwater sampling activities at the site. The natural attenuation is further evidenced by the analytical results of groundwater samples which indicate the presence of daughter products and a decrease in parent material concentrations over time.