

Agenda for
Navy Bethpage and Calverton Status Meeting in Albany, New York
with NYSDEC and NYSDOH
January 18, 2010; 9AM to 4 PM

1.0 Calverton (9 to 12)

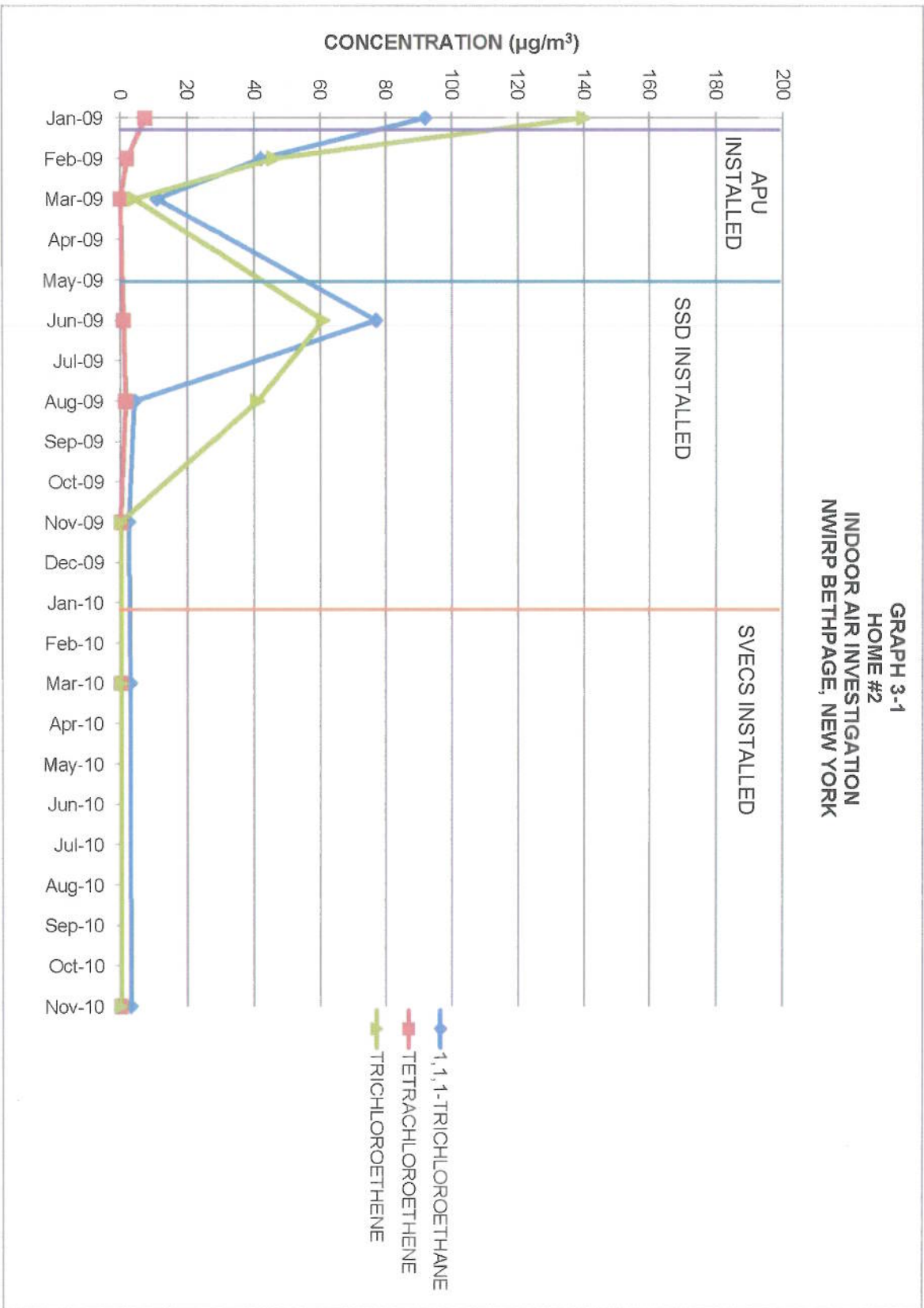
- 2010 Data Summary Report for Annual Base-Wide Groundwater Sampling
- Southern Area Groundwater FS Update
- Southern Area Bio Study Update
- Water Line Extension
- Site 7 AS/SVE Remediation System
- Site 2 Sampling and Analysis Plan*
- Site 2 MEC Activities
- Peconic River Sportsman's Club Soil Vapor Intrusion Sampling*

2.0 Bethpage (1 to 4)

- 2010 Site 1 Soil Vapor Intrusion Results and 2011 Activities*
- Aqua New York Design and Construction
- Site 1 PCB Investigation
- Site 4 TPH Investigation
- OU2 Groundwater Investigation

* Priority Topic

GRAPH 3-1
 HOME #2
 INDOOR AIR INVESTIGATION
 NWIRP BETHPAGE, NEW YORK





BPSI-SG2004
 Oct 2008
 Compound ug/m³ 8 ft bgs 20 ft bgs 49 ft bgs
 PCE 1.8 1,000 580
 TCE 1.0 550 600
 TCA 1.4 480 480
 Nov 2010
 Compound ug/m³ 2004I 2004D
 PCE 0.74 ND 5
 TCE ND ND 0.52
 TCA 0.7 ND 0.7

SVPM115
 Jan 2008
 Compound ug/m³ 24 ft bgs
 PCE 5,300
 TCE 7,200
 TCA ND
 Nov 2010
 Compound ug/m³ 24 ft bgs
 PCE 39
 TCE 620
 TCA 2.5

BPSI-SG2007
 Oct 2008
 Compound ug/m³ 8 ft bgs 20 ft bgs 49 ft bgs
 PCE 13 25 5.3 J
 TCE 29 16 400
 TCA 150 260 870
 Nov 2010
 Compound ug/m³ 2007I 2007D
 PCE 0.30 J 1.8
 TCE ND ND 0.62
 TCA ND 1.4

BPSI-SG2002
 Oct 2008
 Compound ug/m³ 8 ft bgs 20 ft bgs 44 ft bgs
 PCE 420 740 48 J
 TCE 34,000 89,000 26,000
 TCA 21,000 52,000 27,000
 Nov 2010
 Compound ug/m³ 2002S 2002I 2002D
 PCE 0.67 0.91 2.8
 TCE 3.6 18 170
 TCA ND 0.5 0.8

BPSI-SG2003
 Oct 2008
 Compound ug/m³ 8 ft bgs 20 ft bgs 49 ft bgs
 PCE 19 14 8.9
 TCE 20 82 710
 TCA 66 170 J 720 J
 Nov 2010
 Compound ug/m³ 2003I 2003D
 PCE 2.7 3.6
 TCE 0.38 J 6.4
 TCA 0.14 J 1.2

NOTE:
 1 VALUE DERIVED FROM NYSDOH GUIDANCE (2006), TABLE 3.1
 2 VALUE DERIVED FROM NYSDOH GUIDANCE (2006), TABLE 3.3 (MATRIX 1 AND 2)
 ug/m³ = MICROGRAMS PER CUBIC METER OF AIR

GUIDANCE	NYSDOH SUBSLAB VALUE	NYSDOH INDOOR AIR VALUE
COMPOUND	ug/m ³	ug/m ³
PCE	1,000 ²	100 ¹
TCE	250 ²	5 ¹
TCA	1,000 ²	100 ²

- LEGEND**
- OFFSITE SOIL GAS SAMPLE LOCATION
 - ONSITE SOIL GAS SAMPLE LOCATION
 - ▲ SOIL VAPOR PRESSURE MONITORING POINT (SVPM)
 - 420 SOIL GAS VALUE in ug/m³
 - J ESTIMATED VALUE
 - bgs BELOW GROUND SURFACE
 - PCE TETRACHLOROETHENE
 - TCE TRICHLOROETHENE
 - TCA 1,1,1 - TRICHLOROETHANE
 - PROPERTY LINE
 - FENCE LINE
 - SITE BOUNDARY

SOIL GAS SAMPLING RESULTS
 NOVEMBER 2010
 SITE 1
 NWRP BETHPAGE
 BETHPAGE, NEW YORK

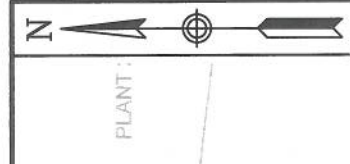


FILE	112G02019GM04	SCALE	AS NOTED
FIGURE NUMBER	FIGURE 3	REV	0
		DATE	01/04/11

TABLE 4-2
ANALYTICAL COMPARISON OF DETECTIONS
SOIL VAPOR PRESSURE MONITORS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK

DEPTH - (BGS)	SVP M 11		SVP M 12		SVP M 2002		SVP M 2003		SVP M 2004		SVP M 2007													
	24 Feet	BPSI -	25 Feet	BPSI -	8 Feet	BPSI -	20 Feet	BPSI -	44 Feet	BPSI -	20 Feet	BPSI -	49 Feet	BPSI -										
SAMPLE ID	SVP M11-24	SVP M-11S	SVP M12 S-25	SVP M-12S	SG2002-08	SVP M-2002S	SG2002-20	SVP M-2002I	SVP M-2002I DUP	SG2002-44	SVP M-2002D	SG2003-20	SVP M-2003I	SG2003-49	SVP M-2003D	SG2004-20	SVP M-2004I	SG2004-49	SVP M-2004D	SG-2007-20	SVP M-2007I	SG2007-49	SVP M-2007D	
DATE	Jan-08	Nov-10	Jan-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10	Oct-08	Nov-10		
VOCS (µg/m ³)																								
1,1,1-TRICHLOROETHANE	2,400	2.5	36,000	3.4	21,000	ND	52,000	0.5	0.5	27,000	0.8	170 J	0.14 J	720 J	1.2	460	ND	480	0.7	260	ND	870	1.4	
1,1-DICHLOROETHANE	63	ND	710	.097 J	170	ND	680	ND	490	490	0.20 J	0.49 J	ND	8.6	ND	44	ND	74	ND	ND	ND	3.0 J	ND	
1,1-DICHLOROETHENE	ND	ND	1,700	ND	220	ND	890	ND	480	ND	ND	2	ND	23	ND	7.1	ND	ND	ND	0.69 J	ND	13	ND	
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	
CIS-1,2-DICHLOROETHENE	860	1.6	200J	6.4	49 J	ND	170	ND	130	0.19 J	ND	ND	ND	1.6	ND	4.6	ND	ND	ND	ND	ND	ND	0.87	
TETRACHLOROETHENE	5,300	39	ND	1.7	420	0.67	740	0.91	48 J	2.8	14	2.1	8.9	3.6	1,000	0.74	580	5	25	0.30 J	5.3 J	1.8	ND	
TRANS-1,2-DICHLOROETHENE	64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	
TRICHLOROETHENE	7,200	620	73,000	52	34,000	3.6	89,000	18	26,000	170	82	0.38 J	710	6.4	550	ND	600	0.52	16	ND	400	0.62	ND	
VINYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL VOCS	15,887	663.10	111,610	63.60	55,859	4.27	143,480	19.41	21.30	54,148	174.22	268.49	2.74	1,472.10	11.20	2,069.60	0.74	1,734	6.22	301.69	0.30	1,291.30	4.69	
PERCENT REDUCTION		95.83%		99.94%		99.99%		99.99%			99.68%		98.98%		99.24%		99.96%		99.64%		99.90%		99.64%	
MEAN TOTAL VOCS		2008		Nov-10																				
MEAN PERCENT REDUCTION		35,284		86.41																				

NOTES:
BGS = Below Ground Surface
J = estimated value
ND = No Detect
SVP M = Soil Vapor Point Monitor
µg/m³ = micrograms per cubic meter
VOCS = Volatile Organic Compounds



PLANT:

NAVY ACCESS EASEMENT

PLANT NO. 3

PLANT 17 SOUTH

ASPHALT PAVEMENT

DRY WELL 20-08

DRY WELL 34-07

SYCAMORE AVENUE

10TH STREET

14TH STREET

MAPLE AVENUE

SITE 1

DIRECTION OF GROUNDWATER FLOW

BPSI-SB3004

BPSI-SB3005

BPSI-SB3006

BPSI-SB3007

BPSI-SB3008

BPSI-SB3009

BPSI-SB3010

BPSI-SB3011

BPSI-SB3012

BPSI-MW301(S,I,D)

BPSI-MW302(S,I,D)

BPSI-MW303(S,I,D)

BPSI-MW304(S,I,D)

BPSI-3001

BPSI-3003

BPSI-3009

BPSI-FWMMW01

BPSI-FWMMW02

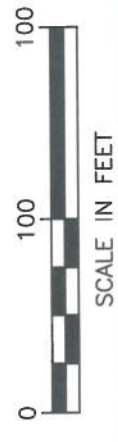
BPSI-FWMMW03

BPHNMW291



LEGEND

-  AMBIENT OUTDOOR AIR SAMPLE
-  PROPERTY LINE
-  FENCE LINE
-  SITE BOUNDARY

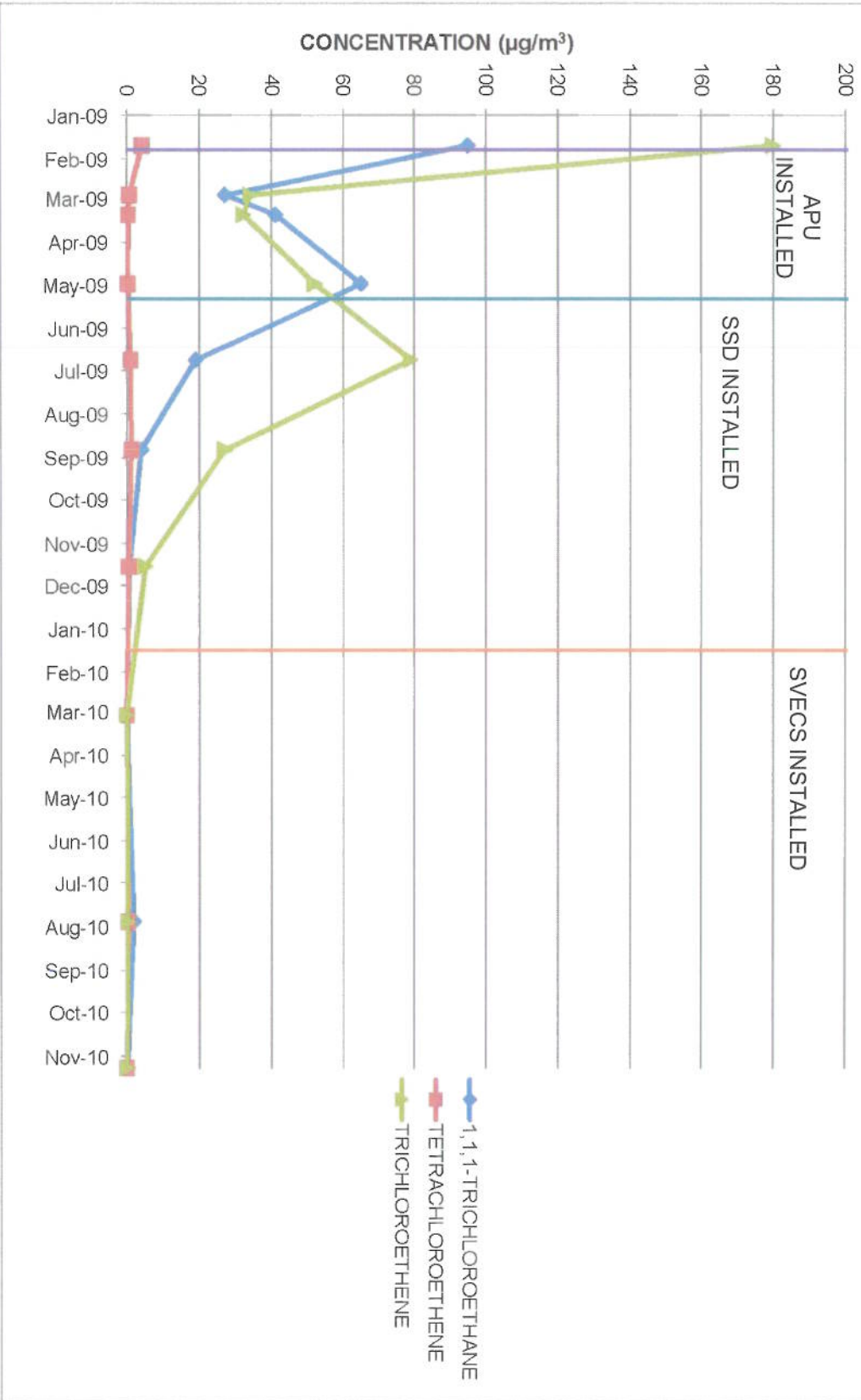


TETRA TECHNUS, INC.

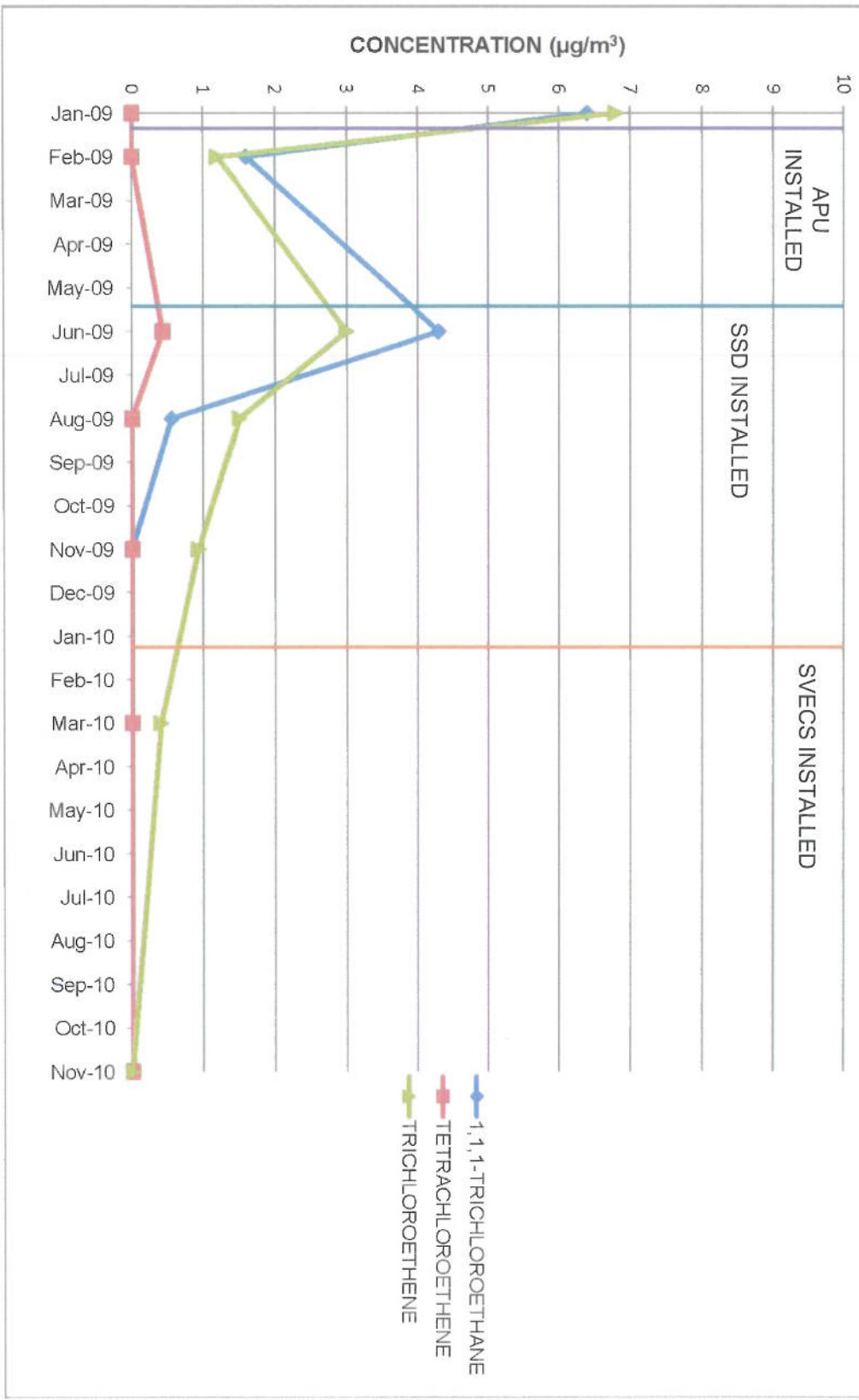
OFF-SITE INVESTIGATION AREA
 NWIRP BETHPAGE
 BETHPAGE, NEW YORK

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FIGURE NUMBER	FIGURE 3	REV	0
		DATE	06/19/09

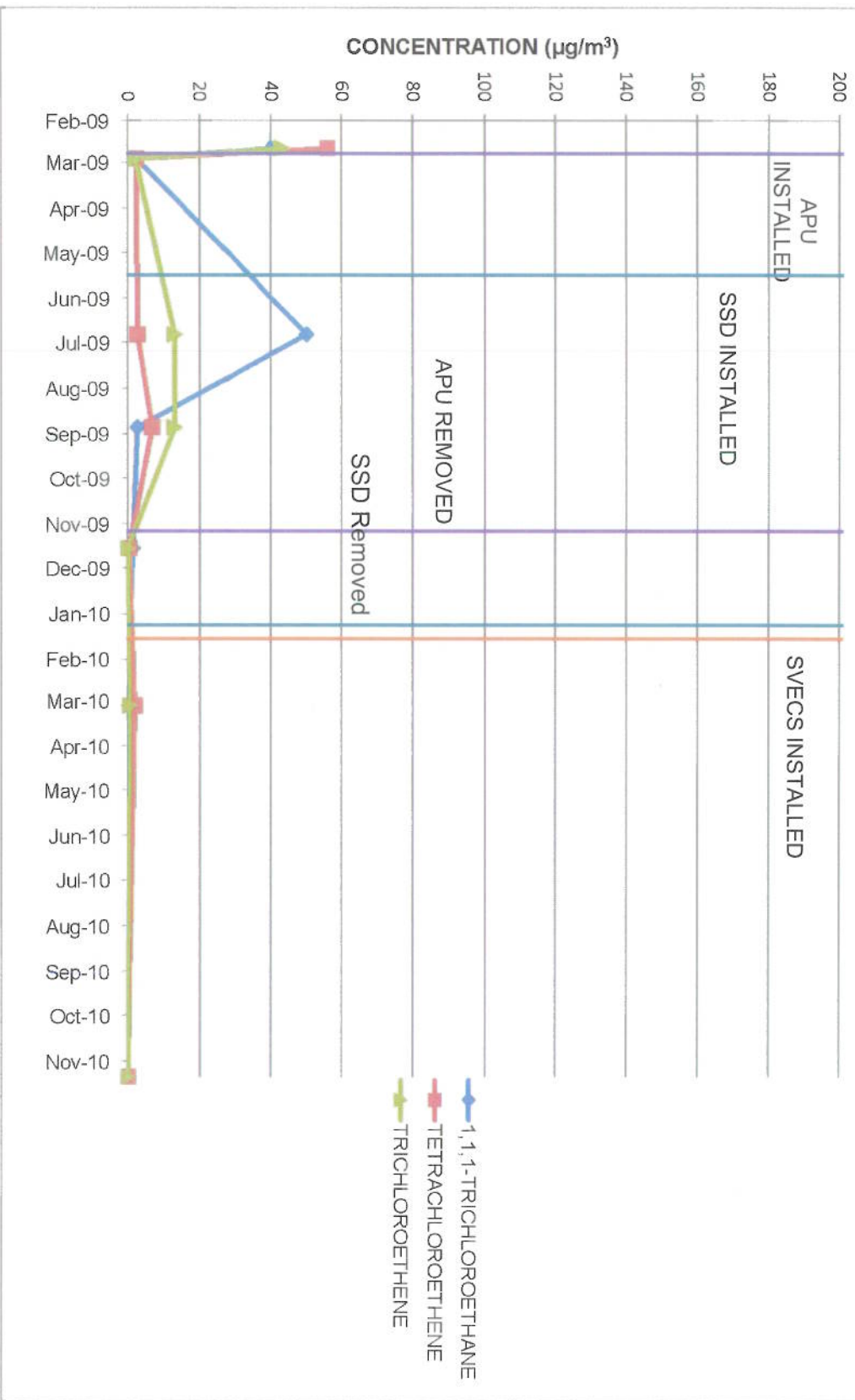
GRAPH 3-2
 HOME #3
 INDOOR AIR INVESTIGATION
 NWIRP BETHPAGE, NEW YORK



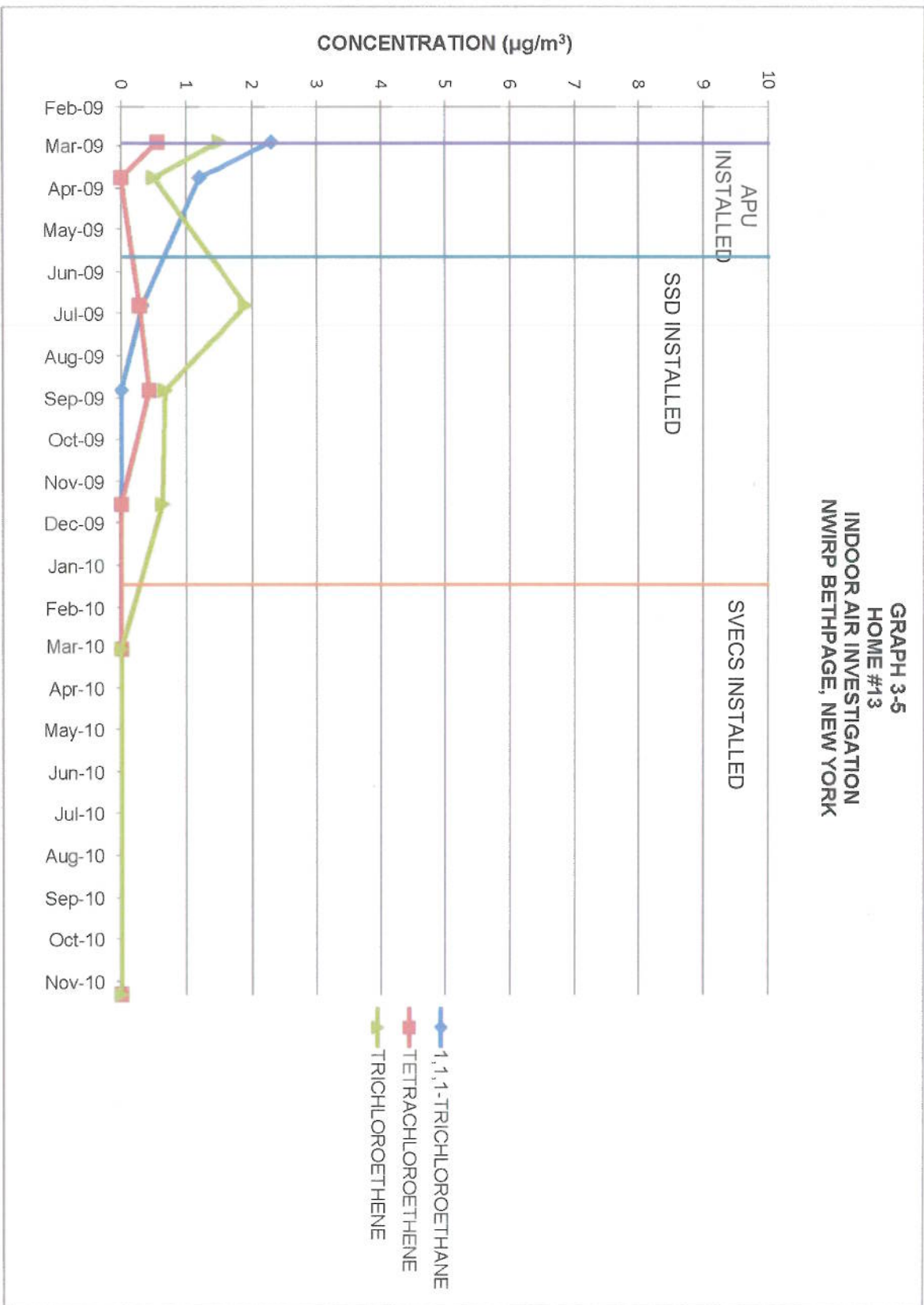
GRAPH 3-3
HOME #4
INDOOR AIR INVESTIGATION
NWIRP BETHPAGE, NEW YORK



GRAPH 3-4
HOME #6
INDOOR AIR INVESTIGATION
NWIRP BETHPAGE, NEW YORK



GRAPH 3-5
 HOME #13
 INDOOR AIR INVESTIGATION
 NWIRP BETHPAGE, NEW YORK



GRAPH 3-6
 HOME #14
 INDOOR AIR INVESTIGATION
 NWIRP BETHPAGE, NEW YORK

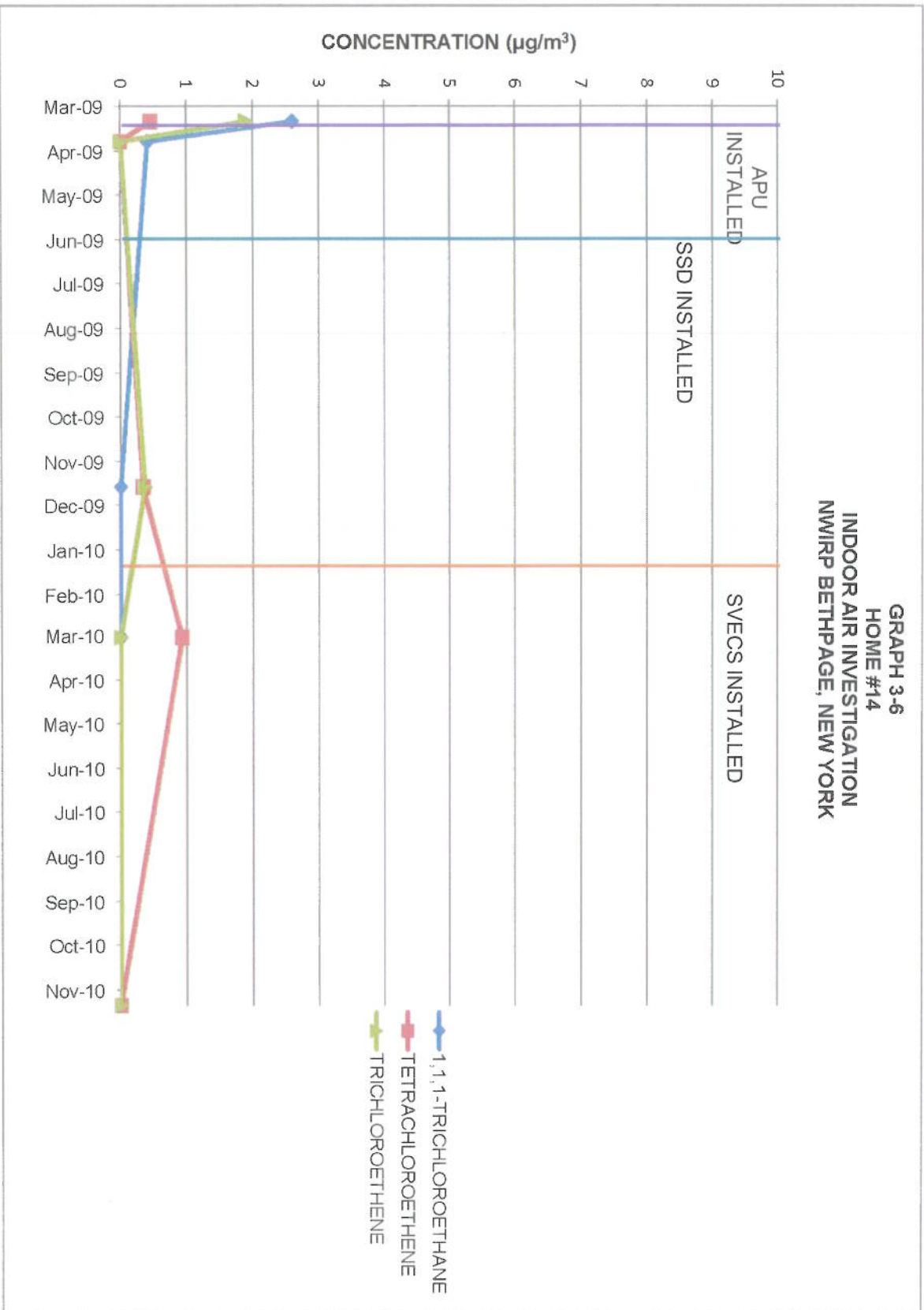


TABLE 3-14
HOME EVALUATION SUMMARY
MATRIX EVALUATION
SOIL VAPOR INVESTIGATION
NWIIRP BETHPAGE, NEW YORK

Home Number	INITIAL JANUARY TO MAY 2009 SAMPLING					NOVEMBER 2010 SAMPLING				
	TCE	PCE	TCA	MITIGATION MEASURE	TCE	PCE	TCA	MITIGATION MEASURE	CURRENT MITIGATION MEASURE	
1	MITIGATE	MON/MIT	MONITOR	APU	NFA	NFA	NFA	APU	APU	
2	MITIGATE	MON/MIT	MITIGATE	APU/SSD	NFA	NFA	NFA	APU/SSD	APU/SSD	
3	MITIGATE	MON/MIT	MITIGATE	APU/SSD	NFA	NFA	NFA	SSD ⁽¹⁾	SSD ⁽¹⁾	
4	MITIGATE	NFA	MITIGATE	APU/SSD	NFA	NFA	NFA	APU/SSD	APU/SSD	
5	NFA	NFA	NFA	NOT REQUIRED	NS	NS	NS	NOT REQUIRED	NOT REQUIRED	
6	MITIGATE	MITIGATE	MITIGATE	APU/SSD	NFA	NFA	NFA	REMOVED ⁽¹⁾	REMOVED ⁽¹⁾	
7	MON/MIT	MON/MIT	MONITOR	APU	NFA	NFA	NFA	APU	APU	
8	NFA	NFA	NFA	APU	NS	NS	NS	REMOVED ⁽²⁾	REMOVED ⁽²⁾	
9	MONITOR	NFA	MONITOR	APU	NFA	NFA	NFA	APU	APU	
10	MITIGATE	MON/MIT	MON/MIT	APU	NFA	NFA	NFA	APU	APU	
11	NFA	NFA	NFA	APU	NS	NS	NS	REMOVED ⁽²⁾	REMOVED ⁽²⁾	
12	MON/MIT	NFA	MONITOR	APU	NFA	NFA	NFA	APU	APU	
13	MITIGATE	MONITOR	MONITOR	APU/SSD	NFA	NFA	NFA	APU/SSD	APU/SSD	
14	MITIGATE	NFA	MONITOR	APU/SSD	NFA	NFA	NFA	APU/SSD	APU/SSD	
15	NFA	NFA	MONITOR	APU	NFA	NFA	NFA	APU	APU	
16	NFA	NFA	NFA	NOT REQUIRED	NS	NS	NS	NOT REQUIRED	NOT REQUIRED	
17	NFA	NFA	NFA	NOT REQUIRED	NS	NS	NS	NOT REQUIRED	NOT REQUIRED	
18	NFA	NFA	NFA	NOT REQUIRED	NS	NS	NS	NOT REQUIRED	NOT REQUIRED	

NOTES:

- ⁽¹⁾ APU and/or SSD was removed at homeowner's request.
 - ⁽²⁾ APU was installed immediately after initial sampling was conduct. Upon receipt of analytical results and determination of NFA, the APU was removed.
- Shaded Cells = Home contains either a SSD system and/or APU (Both shut off during sampling)
- MON/MIT = Monitor and Mitigate
- NFA = No Further Action
- NS = Not Sampled
- SVPM = Soil Vapor Point Monitor

**Monitoring Well Construction Details
 PCB Investigation
 Site 1 - Former Drum Marshalling Area
 NWIRP Bethpage, New York**

Sampling Location	Depth (feet bgs)
Monitoring Wells - Groundwater Sampling Rounds 1 and 2	
BPS1-FW-MW01	49-64
BPS1-FW-MW02	49-64
BPS1-FW-MW03	49-64
BPS1-HN-MW29I	120-130
BPS1-TT-MW301S	51-61
BPS1-TT-MW301I	130-140
BPS1-TT-MW301D	210-220
BPS1-TT-MW302S	41-51
BPS1-TT-MW302-11	110-120
BPS1-TT-MW302-12	140-150
BPS1-TT-MW302D	203-213
BPS1-TT-MW303S	46-56
BPS1-TT-MW303-11	95-105
BPS1-TT-MW303-12	146-156
BPS1-TT-MW303D	208-218
BPS1-TT-MW304S	43-53
BPS1-TT-MW304-11	102-112
BPS1-TT-MW304-12	140-150
BPS1-TT-MW304D	180-190

Notes:
 bgs : below ground surface

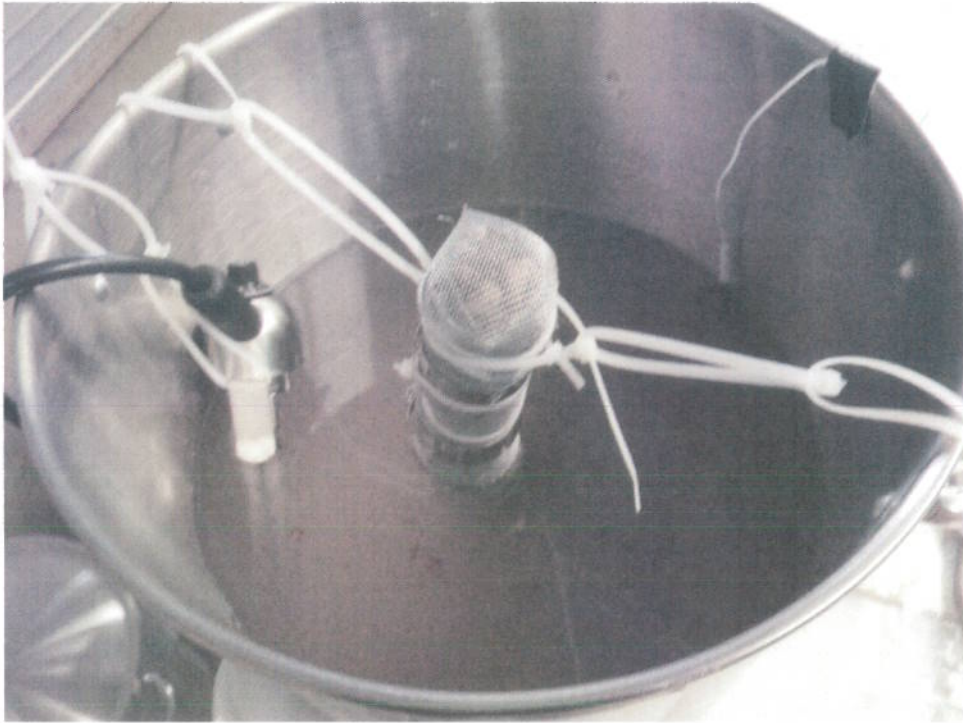


Photo 11: View of cylinder secured vertically during a test.



Photo 12: The cylinder has been removed following the test and is being allowed to drain.

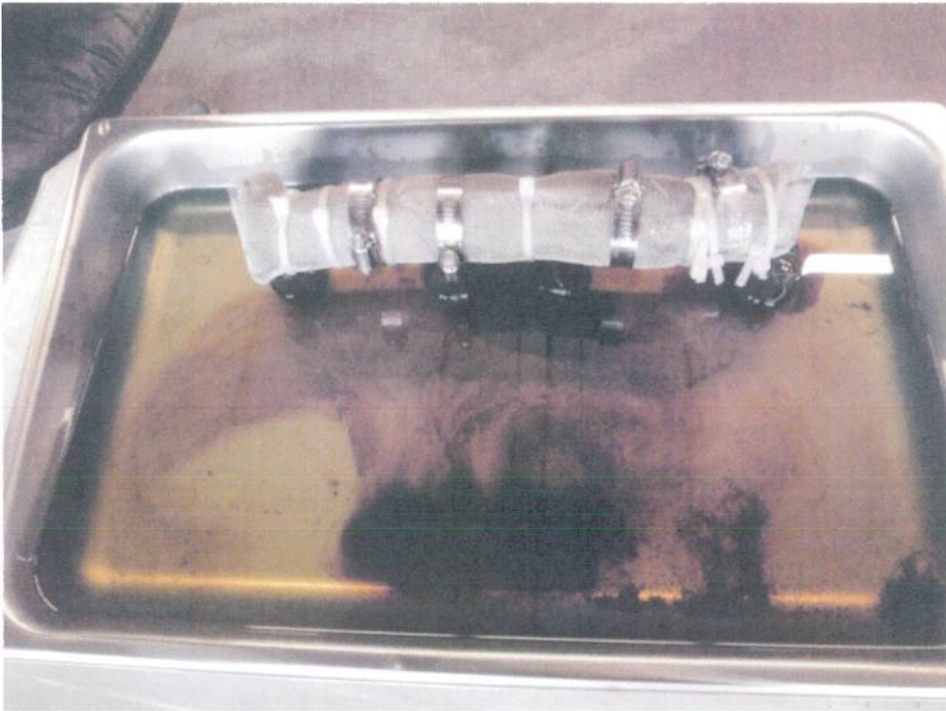
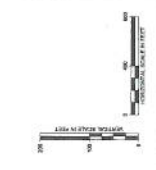
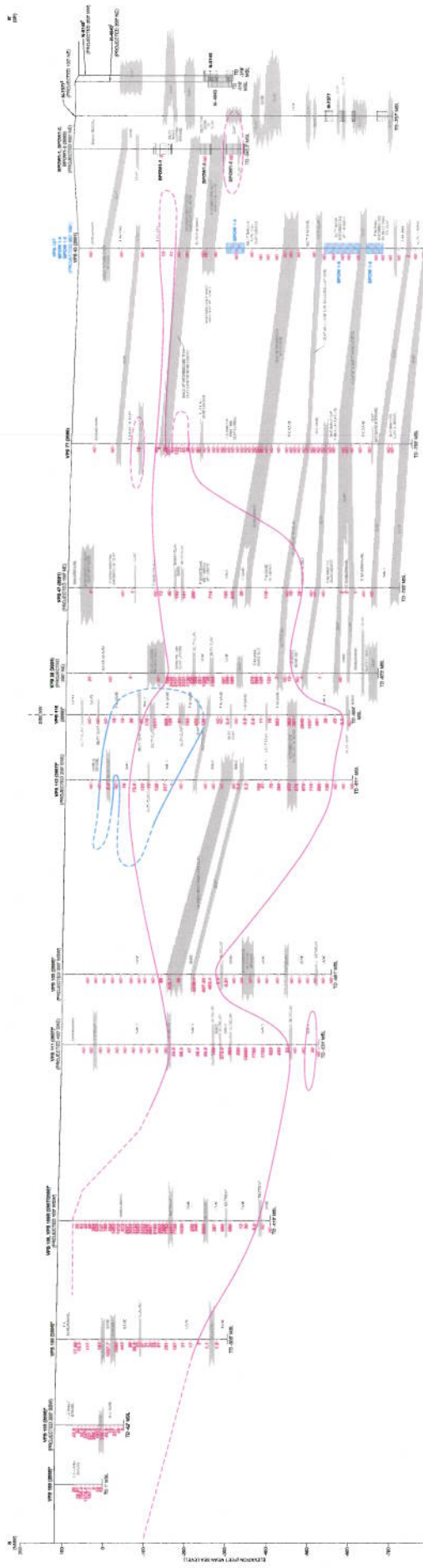


Photo 13: Following the first rinse in diesel, the cylinder is draining. Oil is observed draining from the cylinder.



Photo 14: The cylinder has been returned for the second soak in VertecBio Gold #4, the cylinder is draining. Oil drained from the cylinder following the first soak. .



LEGEND

- MONITORING WELLS (VERTICAL PROFILE BOREHOLE DATA) (FEET)
- BORING SURFACE
- LITHOLOGY
- WELL PROFILES
- WELL PROFILES - PUMP CONTROLLED
- WELL PROFILES - PUMP CONTROLLED (L)
- WELL PROFILES - PUMP CONTROLLED (R)
- TOTAL DEPTH WITH BORING DATA (FEET)

**TABLE 3-2
INDOOR AIR EVALUATION
HOME #2
SOIL VAPOR INVESTIGATION
NWIRP BETHPAGE, NEW YORK**

	NYSDOH INDOOR AIR GUIDELINE VALUES	NYSDOH SUB- SLAB GUIDELINE VALUES	INITIAL SAMPLING (2009)				NOVEMBER 2010						
			SUB-SLAB VAPOR	BASEMENT AIR	LIVING SPACE AIR	NYSDOH MATRIX EVALUATION	SUB-SLAB VAPOR	BASEMENT AIR	LIVING SPACE AIR	NYSDOH MATRIX EVALUATION			
VOCs (ug/m ³)													
1,1,1-Trichloroethane	100 ⁽²⁾	1,000 ⁽²⁾	15,000	92	73	MITIGATE	1.3	3.1	0.95	NFA			
1,1-Dichloroethane	NE	NE	78	0.66 J	2.4 U	NA	0.66 U	0.58 U	1.1 U	NA			
1,1-Dichloroethene	NE	NE	130	0.89	2.3 U	NA	0.65 U	0.57 U	1.1 U	NA			
1,2-Dichloroethane	NE	NE	34 U	0.74 U	2.4 UJ	NA	0.66 U	0.58 U	1.1 U	NA			
cis-1,2-Dichloroethene	NE	NE	7.2 J	0.72 U	2.3 U	NA	0.65 U	0.57 U	1.1 U	NA			
Tetrachloroethene	100 ⁽¹⁾	1,000 ⁽²⁾	310	7.6	4.9	MON/MIT	0.47 J	0.49 U	0.95 U	NFA			
trans-1,2-Dichloroethene	NE	NE	34 U	0.72 U	2.3 U	NA	0.65 U	0.57 U	1.1 U	NA			
Trichloroethene	5 ⁽¹⁾	250 ⁽²⁾	16,000	140	100	MITIGATE	0.44 U	0.39 U	0.75 U	NFA			
Vinyl Chloride	NE	NE	22 U	0.47 U	1.5 U	NA	0.42 U	0.37 U	0.72 U	NA			

NOTES:

⁽¹⁾ = Value derived from NYSDOH guidance (2006), Table 3.1

⁽²⁾ = Value derived from NYSDOH guidance (2006), Table 3.3 (Matrix 1 and 2)

BOLD = Detection

SHADED = Exceedance of NYSDOH Guideline Value

MON/MIT = Monitor and Mitigate

NA = Not Applicable

NE = Not Established

NFA = No Further Action

NYSDOH = New York State Department of Health

ug/m³ = Micrograms per Meter Squared