

Summary Packet
Vertical Profile Boring 136

NWIRP Bethpage
Bethpage, New York



Naval Facilities Engineering Command
Mid-Atlantic

Contract No. N62470-08-D-1001
Contract Task Order WE62

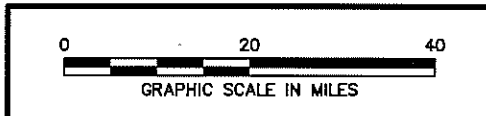
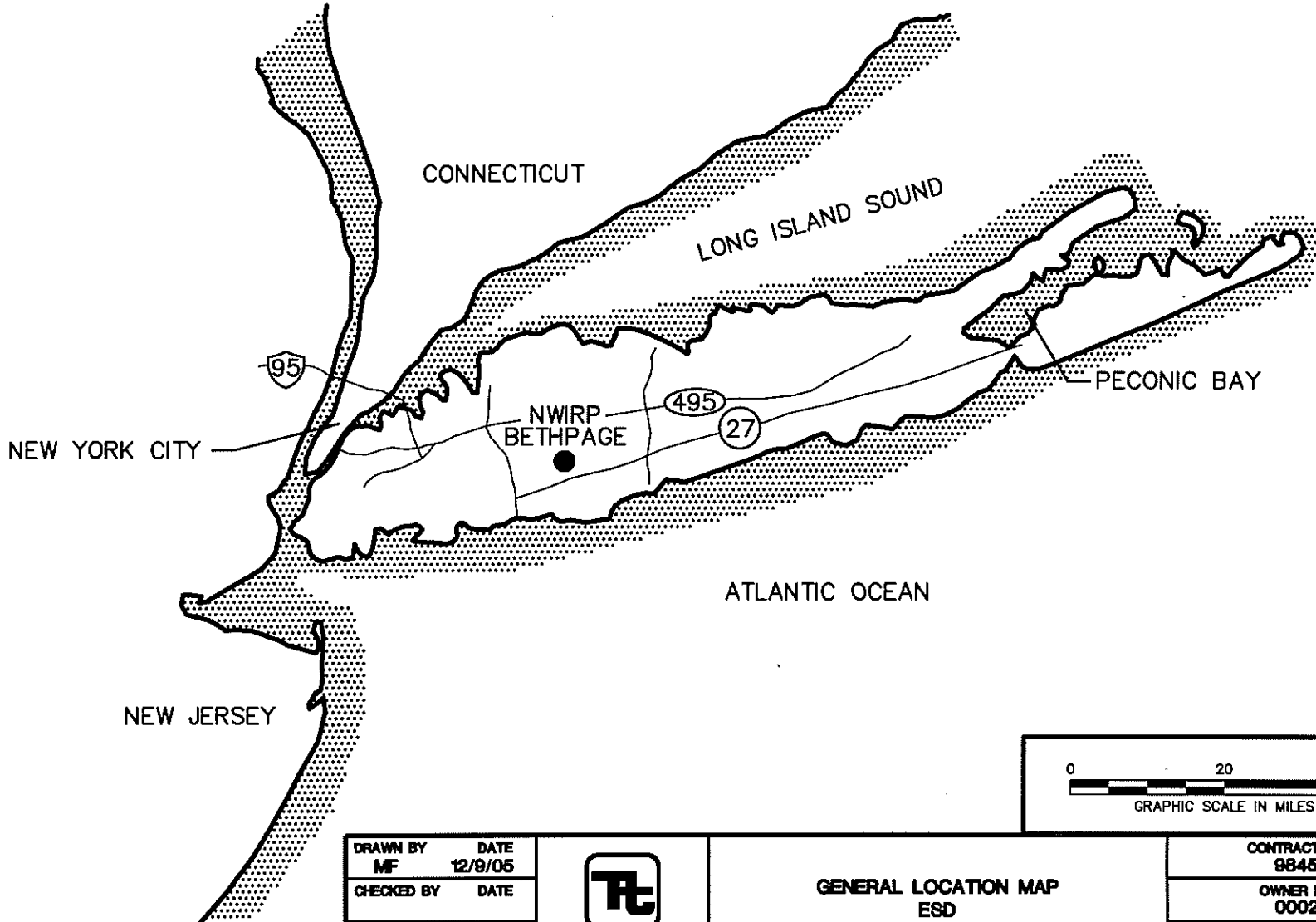
November 2012

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Section 1

Figures



DRAWN BY	DATE
MF	12/8/05
CHECKED BY	DATE
REVISD BY	DATE
SCALE AS NOTED	

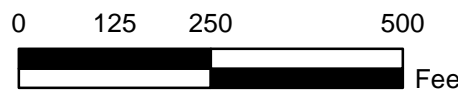


GENERAL LOCATION MAP
ESD
NWIRP BETHPAGE
BETHPAGE, NEW YORK

CONTRACT NO. 9845	
OWNER NO. 0002	
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV. 0

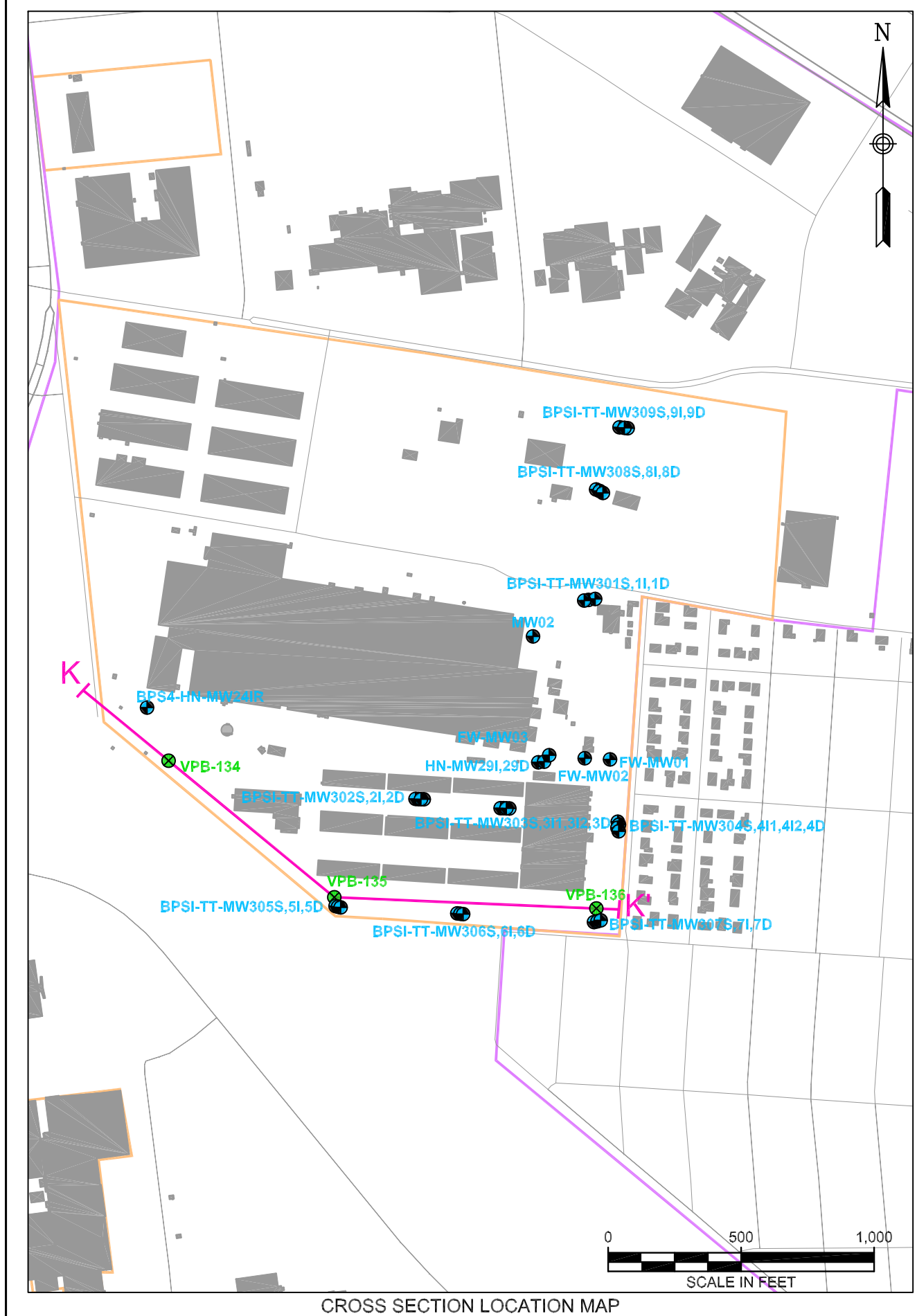
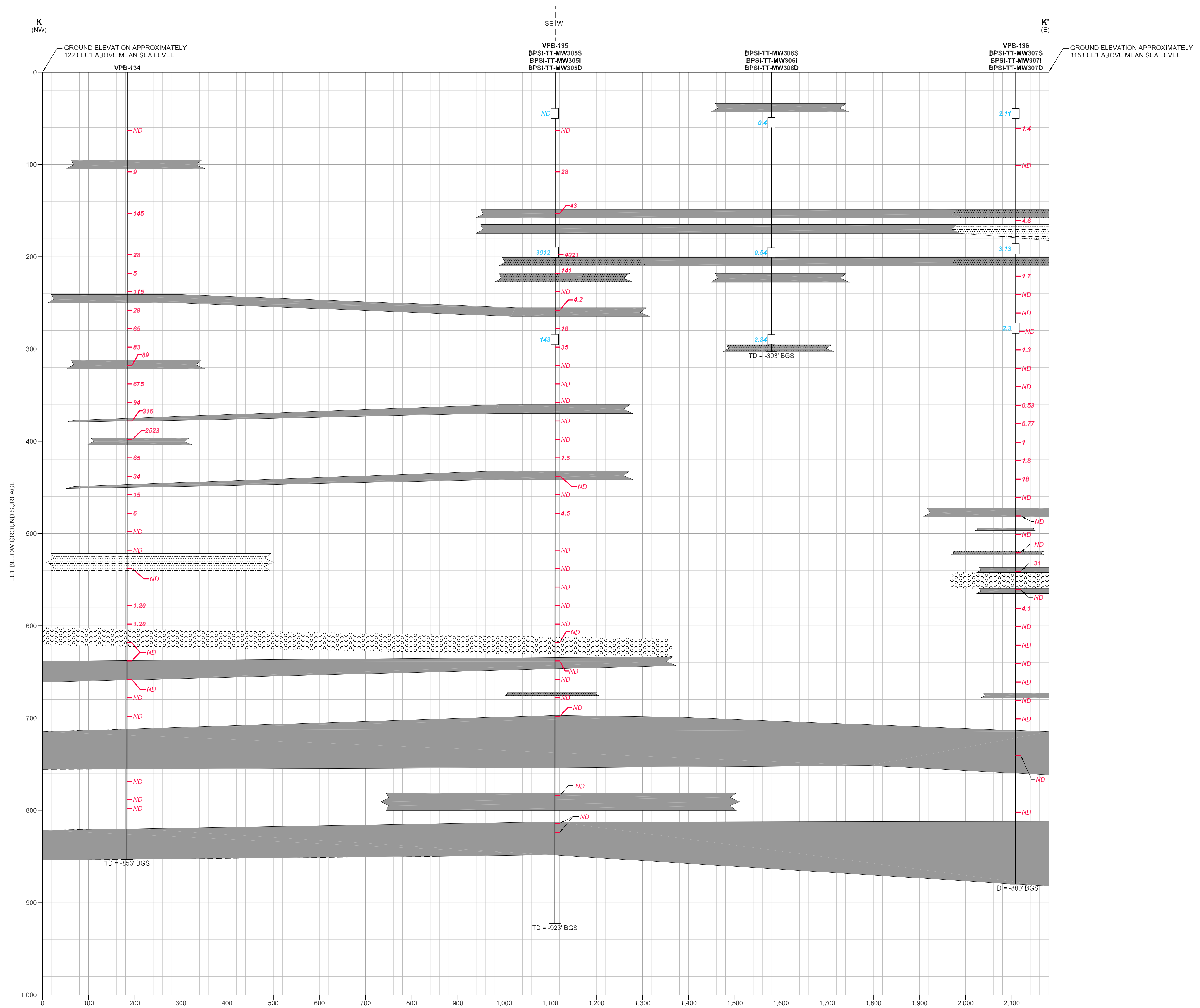


- Legend**
- Monitoring Well
 - Vertical Profile Boring
 - Fence Line
 - Site Boundaries



VPB-136
Cross Section and Location Map
Bethpage Groundwater Plume
NWIRP Bethpage
Bethpage, New York

FILE	SCALE AS NOTED
FIGURE NO. 2	REV DATE 10/2/12



NOTE: COMPOUNDS USED TO CALCULATE TOTAL VOCs IN MONITORING WELLS ARE DEFINED IN THE VALIDATED ANALYTICAL RESULTS TABLES FOR VPBs 134, 135, AND 136.

LEGEND

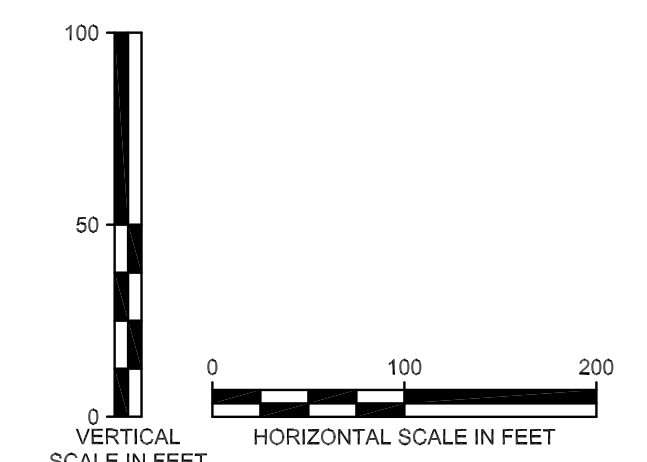
- SAND AND GRAVEL
- F-M SAND WITH VARYING AMOUNTS OF SILT, CLAY, AND C. SAND
- CONFINING UNITS**
- INTERBEDDED CLAY AND SAND
- SANDY CLAY
- CLAY
- $\mu\text{g/L}$ MICROGRAMS PER LITER
- ND NOT DETECTED

BPSI-TT-MW3055

VPB-135

MONITORING WELL ID
VERTICAL PROFILE BORING
GROUND SURFACE
VPB TVOC RESULT IN $\mu\text{g/L}$
CONFINING UNIT (DASHED WHERE INFERRED)
MONITORING WELL SCREEN
JANUARY 2012 MW TVOC RESULT IN $\mu\text{g/L}$
TOTAL DEPTH FEET BELOW GROUND SURFACE (BGS)

143
143
TD = -853' BGS



CROSS SECTION K - K' ONSITE VERTICAL PROFILE BORING NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK	
FILE 112G00622GS11	SCALE AS NOTED
FIGURE NUMBER K - K'	REV 0
	DATE 11/12/12

Section 2

VPB 136 Boring/Gamma Logs



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 6/28/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	0				DENE	BRN	SAND AND GRAVEL	GW	DRY → DAMP					0
						TO			SW					
						RED								
						BRN								
	10								SAME					
									8" CASING TO 56'					
	20								SAME					0
	30								SAME - W LESS GRAVEL					
	40								SAME					0
	50													

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: DROVE 8" CASING W/ CASING DRIVER ON SPEEDSTAR RIG - 8" MUD ROTARY TO TD

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: VPB-136



Tetra Tech, Inc.

BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/10/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	50				DENSE	RED BRN	SILTY F SAND TR CLAY	SM	WET				0
	60				DENSE	RED BRN	CLAYEY SAND	SM	SUR CAS TO EG TOOK				
	61							SC	[BP-VPB136 - GM-061]				
	70						F/M SAND TR CLAY	SM	WET.				0
	80						SAME						
	90						SAME						0
	100												

7/10
 7/11

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/11/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-2 2 0940	101	/		*	DENSE	RED BEN GRAY	F/M SAND-TR CLAY	SM	WET - TOOK [SP-VPB136- GW-101]				0
	110	/					SAME						
	120	/					SAME						0
	130	/					SAME						
	140	/					SAME						0
	150	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: **BETHPAGE OU-2 OFFSITE GW**
 PROJECT NUMBER: **112G02751-PHASE II**
 DRILLING COMPANY: **DELTA WELL & PUMP**
 DRILLING RIG: **MUD ROTARY**

BORING No.: **VPB-136**
 DATE: **7/11/12**
 GEOLOGIST: **Conti**
 DRILLER: **C. Twigg**

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	150				DENSE	RED	F/M SAND-TR	SM	WET				0
						BEN	CLAY						
							TO						
							~ 160±		→ CUTTINGS				
5-3	160								TOOK				
2	1210						SAME		BP-VPB136- GW-161				
									GOOD SAMPLE 70 NTUS				
	170												0
							SAME						
	180												
							SAME						
	190					GRAY							
							SAME - MORE						0
							CLAY		190-200				
									INTERBED W/ CLAY.				
	200												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No _____ Well I.D. #: **VPB-136**



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/11/12 → 7/12/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)									
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**						
	200																		
					DENSE	GRAY	SAND - TR F GRAVEL												0
	210						SAME												
	220																		
	221									TOOK									0
	230																		
	240																		
	241									TOOK									0
	250																		

7/11
7/12

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



Tetra Tech, Inc.

BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/12/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	250																	
					DENSE	GRAY	SAND (F/M)	SM SP	WET									0
S6	260								TOOK									
1200	261								[BP-VPB136- GW-261]									
	270																	0
S7	280								TOOK									
1400	281								[BP-VPB136- GW-281]									
	290																	0
	300																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/13/12 → 7/16/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

7/13
7/16

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
58 9940	301				DENSE	GRAY BEN	F/M SAND	SM	WET [TOOK BP-VPB136- GW-301]					0
	310						SAME							
59 1120	321						SAME TR CLAY		TOOK [BP-VPB136- GW-321]					0
	330													
510 1315	341						SAME		TOOK [BP-VPB136- GW-341]					0
	350													

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/16/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)							
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**				
	350																
					DENSE	GRAY	SILTY F/M SAND	SM	WET								
	S11 360						SAME		TOOK								
	1500 361								[BP-VPB136-] [GW-361]								
	370																
							SAME										
	S12 380								TOOK								
	2 1000 381						SILTY F/M SAND TR CLAY		[BP-VPB136-] [GW-381] 1 VIAL ONLY								
	390																
							SAME										
	400																

7/16
↓
7/17

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: **BETHPAGE OU-2 OFFSITE GW**
 PROJECT NUMBER: **112G02751-PHASE II**
 DRILLING COMPANY: **DELTA WELL & PUMP**
 DRILLING RIG: **MUD ROTARY**

BORING No.: **VPB-136**
 DATE: **7/17/12**
 GEOLOGIST: **Conti**
 DRILLER: **C. Twigg**

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
S13	400																	
@ 1215	401				DENSE	GRAY	SILTY F/M SAND	SM	WET									0
						BRN	TR CLAY	SP	TOOK									
	410																	
S14	420																	
@ 1420	421																	0
	430																	
S15	440																	
@ 0910	441																	0
	450																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/18/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	450																	
					DENSE	DRY	F/M SAND	SM	WET									
S16	460								TOOK									
P 115	461						SAME		[BP-VPB136- GW-461]									
	470																	
							SAME											
S17	480								TOOK									
1400	481						SAME - TR CLAY ~480		[BP-VPB136- GW-481]									
	490																	
							SAME	TR TO SOME CLAY	~ 5' BEAM TO ~ 485									
	500																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/19/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S18 @ 0910	500 501				DENSE	BRN GRAY	F/M SAND - TR CLAY	SM SP	WET TOOK [BP-VPB136- GW-501] 1 VIAL				0
	510						SAME						
S19 @ 1120	520 521						SAME		TOOK [BP-VPB136- GW-521] 1 VIAL.				0
	530						SAME						
S20 1515	540 541						SAME - TR CLAY		TOOK [BP-VPB136- GW-541] 2 VIALS				0
	550												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/20/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)							
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**				
	550				DENSE	BRN GRAY	F/M SAND - TR CLAY - TR GRAVEL		WET								
	560																
	561						SAME		TOOK								
	570																
	580																
	581						SAME - LESS CLAY		TOOK								
	590																
	600						SAME.										

7/20
 0946
 7/23

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes _____ No x _____ Well I.D. #: VPB-136



Tetra Tech, Inc.

BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/23/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S23/600	601				DEESE	BROWN	F/M SAND	SM	WET					0
						SOILY		SP	TOOK					
	610								[BP-VPB136] GW-601]					
							SAME.							
S24/620	621								TOOK					
1430							SAME		[BP-VPB136] GW-621]					0
	630													
							SAME							
S25/640	641								TOOK					
7/23 7/24	0915						SAME		[BP-VPB136] GW-641]					0
	650													

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No _____ Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/24/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (FT) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/FT) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	650				DENSE	BEN	F/M SAND		WET				0
	660								TOOK				
S26 C 1130	661						SAME		[BP-VPB136] GW-661				
	670												
	680								TOOK				
S27 C 1130	681						SAME - TR CLAY ± 2 TO 3' (CUTINGS)		[BP-VPB136] GW-681				
	690												
	700						SAME.						0

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area

Background (ppm):

Converted to Well: Yes _____

No _____

Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: **BETHPAGE OU-2 OFFSITE GW**
 PROJECT NUMBER: **112G02751-PHASE II**
 DRILLING COMPANY: **DELTA WELL & PUMP**
 DRILLING RIG: **MUD ROTARY**

BORING No.: **VPB-136**
 DATE: **7/24/12**
 GEOLOGIST: **Conti**
 DRILLER: **C. Twigg**

Sample No. and Type or RQD	Depth (FT) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/FT) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)							
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**				
528	700																
1530	701				DENSE	BREN	F/M SAND	SM SP	WET TOOK								0
	710						SAME										
529	720			720± (Per Gamma Log)													
0930	721						SAME - TR CLAY		NO SAMPLE								0
	730						SAME		TR RED GRAY IN CUTTINGS MIX W/ FINE GRAVEL ~ 720 ±								
530	740								TOOK								
1200	741						SAME - TR GRAY CLAY ON H.P. DRIVE SHOE		[BP-VPB136-] [GW-741]								0
	750																

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: H.P. = Hydropunch.

Drilling Area
Background (ppm): 0

Converted to Well: Yes No x Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: BETHPAGE OU-2 OFFSITE GW
 PROJECT NUMBER: 112G02751-PHASE II
 DRILLING COMPANY: DELTA WELL & PUMP
 DRILLING RIG: MUD ROTARY

BORING No.: VPB-136
 DATE: 7/30/12
 GEOLOGIST: Conti
 DRILLER: C. Twigg

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/FT.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S32 c 0850	800 801 802	/			DENSE GRAY		SILTY F/M SAND	SM WET EP TOOK					0
	810	/					SAME						
	820	/		820 ← (Per Gamma Log)					817 → 823 TR CLAY PER DRILLER				0
		/		CLAY			SOME CLAY		TOP RABBITAN ? 820 ±				
SS6 P 1050	830 831	/	5/1			DENSE/ STIFF	BLK	LIGNITE-TR. SAND	WET TO MOIST V. DENSE/ STIFF MATL IN DRIVE SIDE NO H.P. HERE				
	840	/						DRILLER NOTES CLAY ~ 835 ±					0
SS7 1330	845 846	/	4/1		V. STIFF	RED GRAY	SILTY CLAY	DAMP → MOIST					
	850	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes _____ No Well I.D. #: VPB-136



BORING LOG

PROJECT NAME: **BETHPAGE OU-2 OFFSITE GW**
 PROJECT NUMBER: **112G02751-PHASE II**
 DRILLING COMPANY: **DELTA WELL & PUMP**
 DRILLING RIG: **MUD ROTARY**

BORING No.: **VPB-136**
 DATE: **7/30/12 & 7/31/12**
 GEOLOGIST: **Conti**
 DRILLER: **C. Twigg**

Sample No. and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	850			CLAY	STIFF	RED GRAY	SILTY CLAY	CL	MOIST				0	
558 1450	855 856		~4/1											
	860												0	
	865 866		~3/1			M STIFF	RED GRAY	CLAYEY SILT - TR F SAND	ML	MOIST				
	870													
	875 876		~4/1			V STIFF	GRAY RED	SILTY CLAY	CL	DAMP				0
	880 881				880 TD	STIFF	GRAY	SILTY CLAY / CLAYEY SILT	CL	MOIST				
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> WILL GAMMA LOG TO 880 NO WELL HERE </div>														

7/30
7/31

* When rock coring, enter rock brokeness.

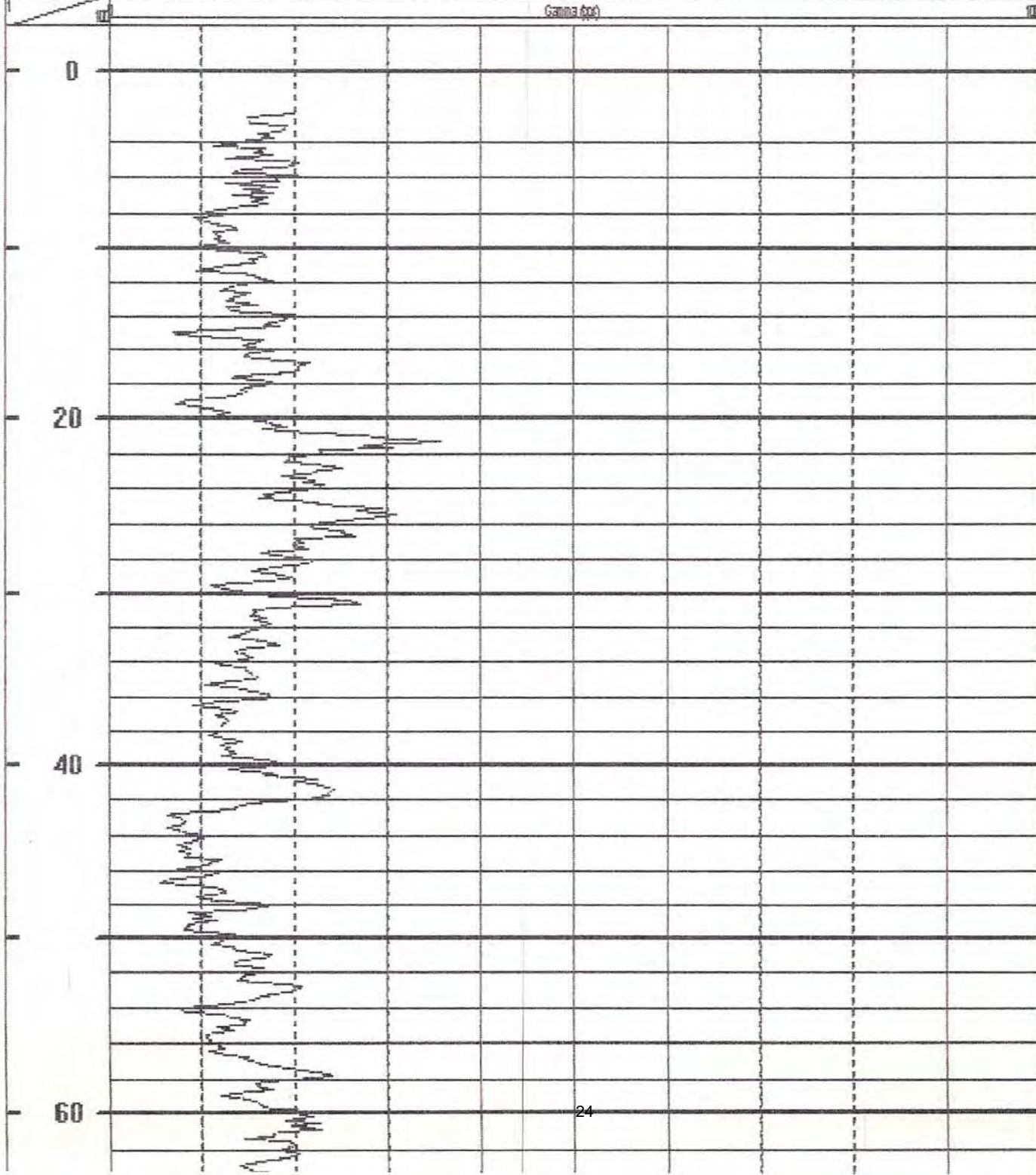
** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

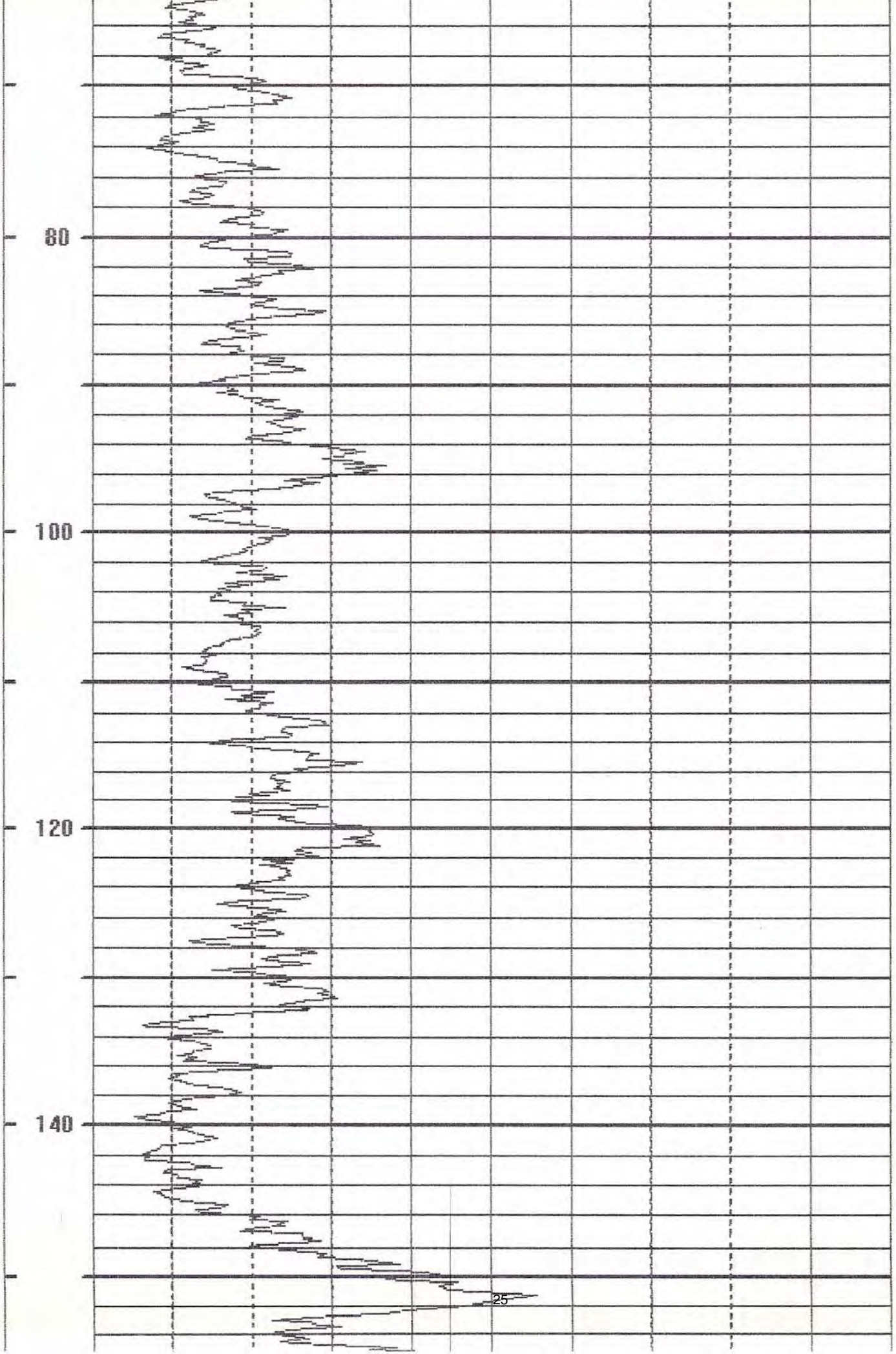
Remarks: _____

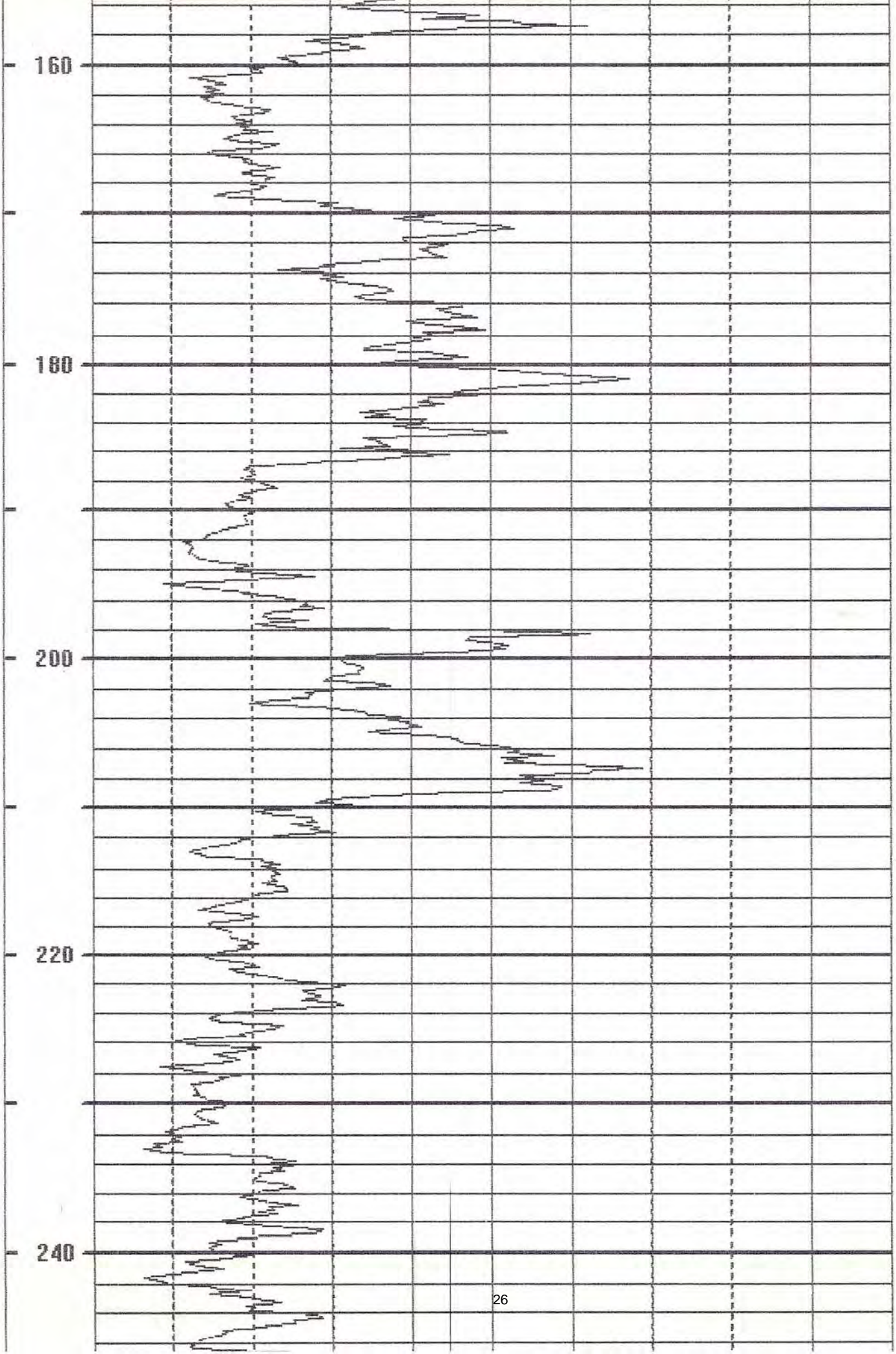
Drilling Area Background (ppm):

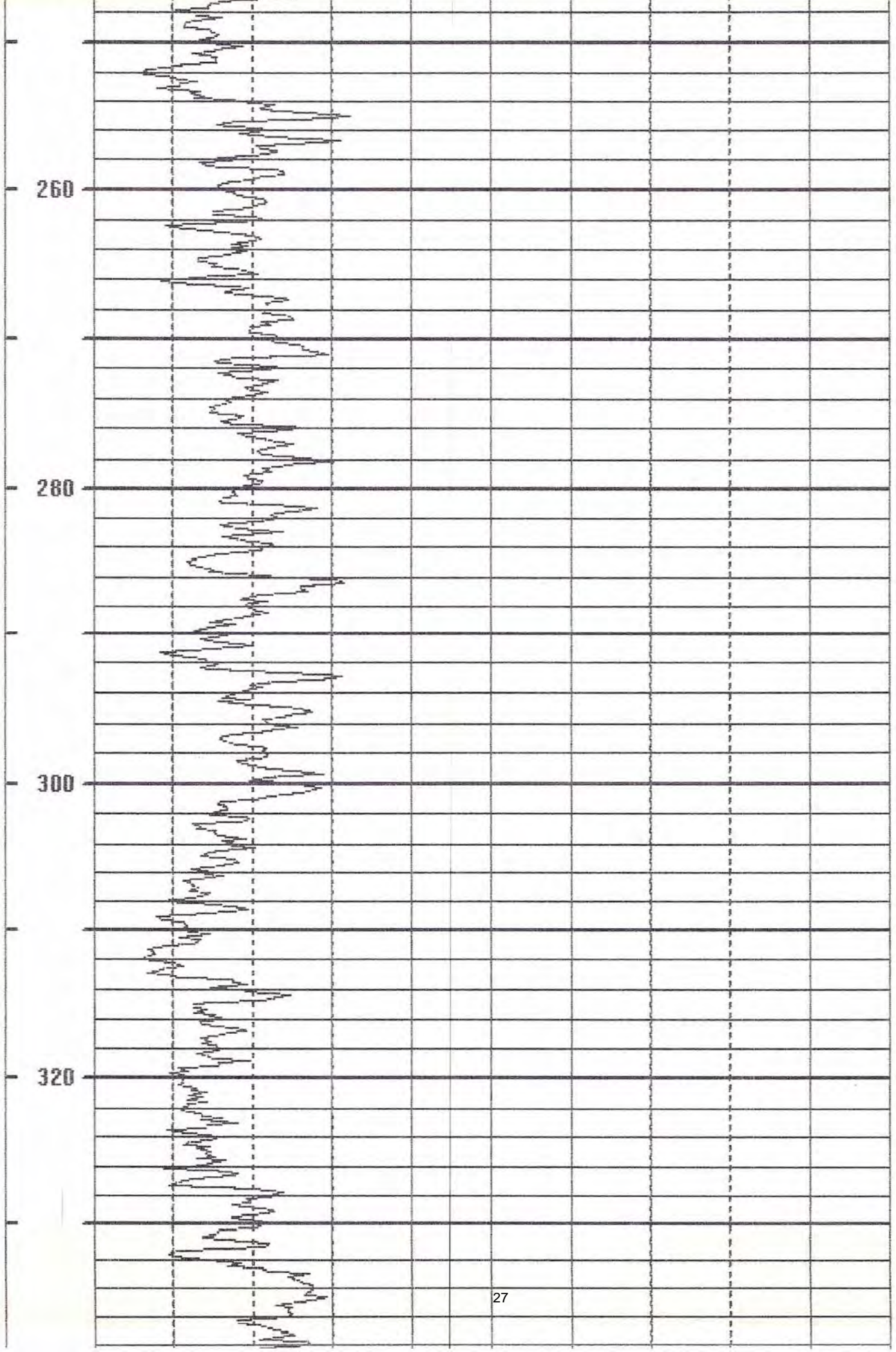
Converted to Well: Yes _____ No **x** _____ Well I.D. #: **VPB-136**

COMPANY: DELTA WELL & PUMP CO., INC.		DOWN		Casing
Location: NW/4RP BETHPAGE				
Well	VPB-136	Depth Driller		
		Depth Logger		
Date	07/31/2012	BH Fluid	Logged by: CMC	
File Name	717	Witness:	STAN	







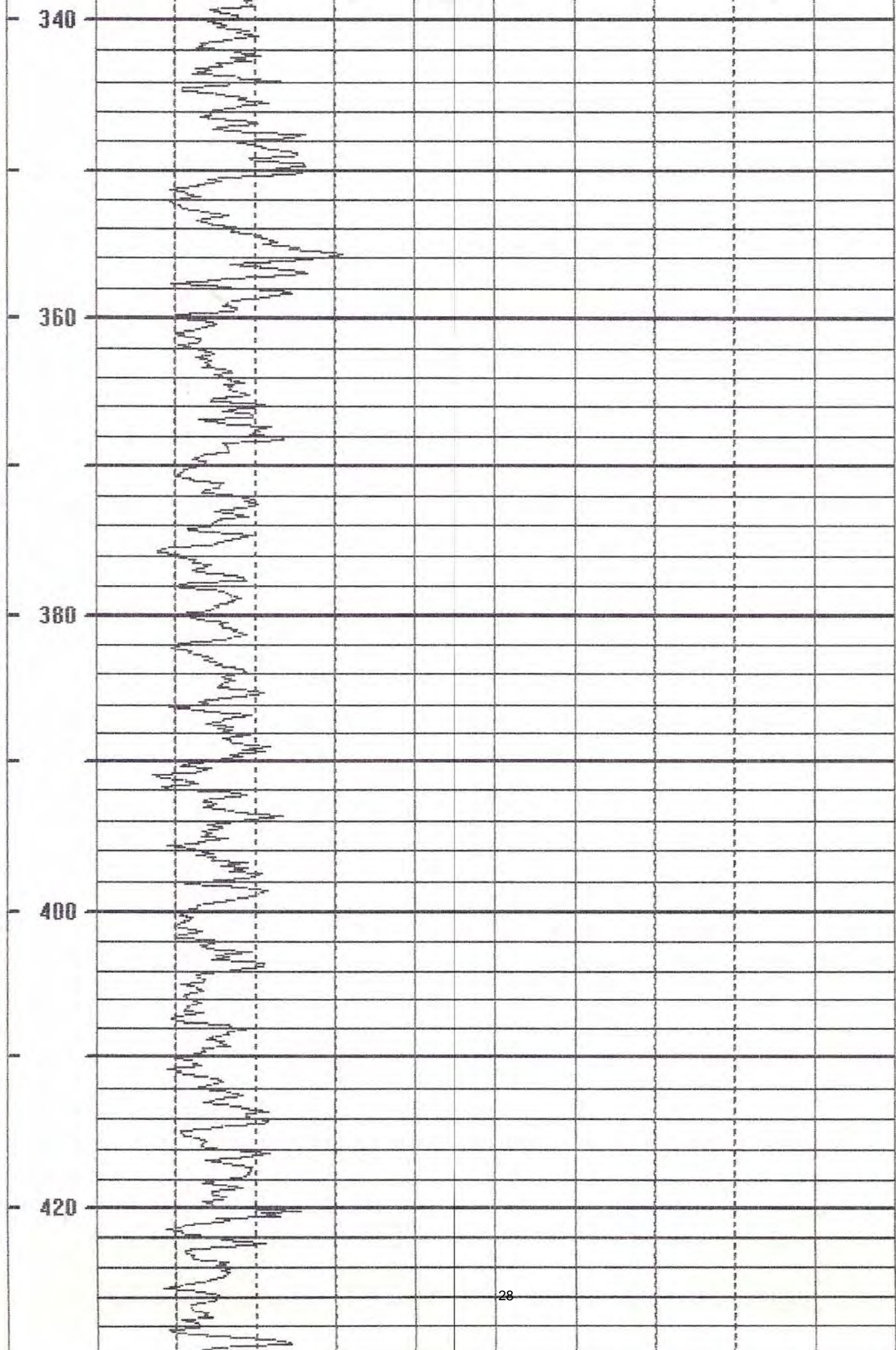


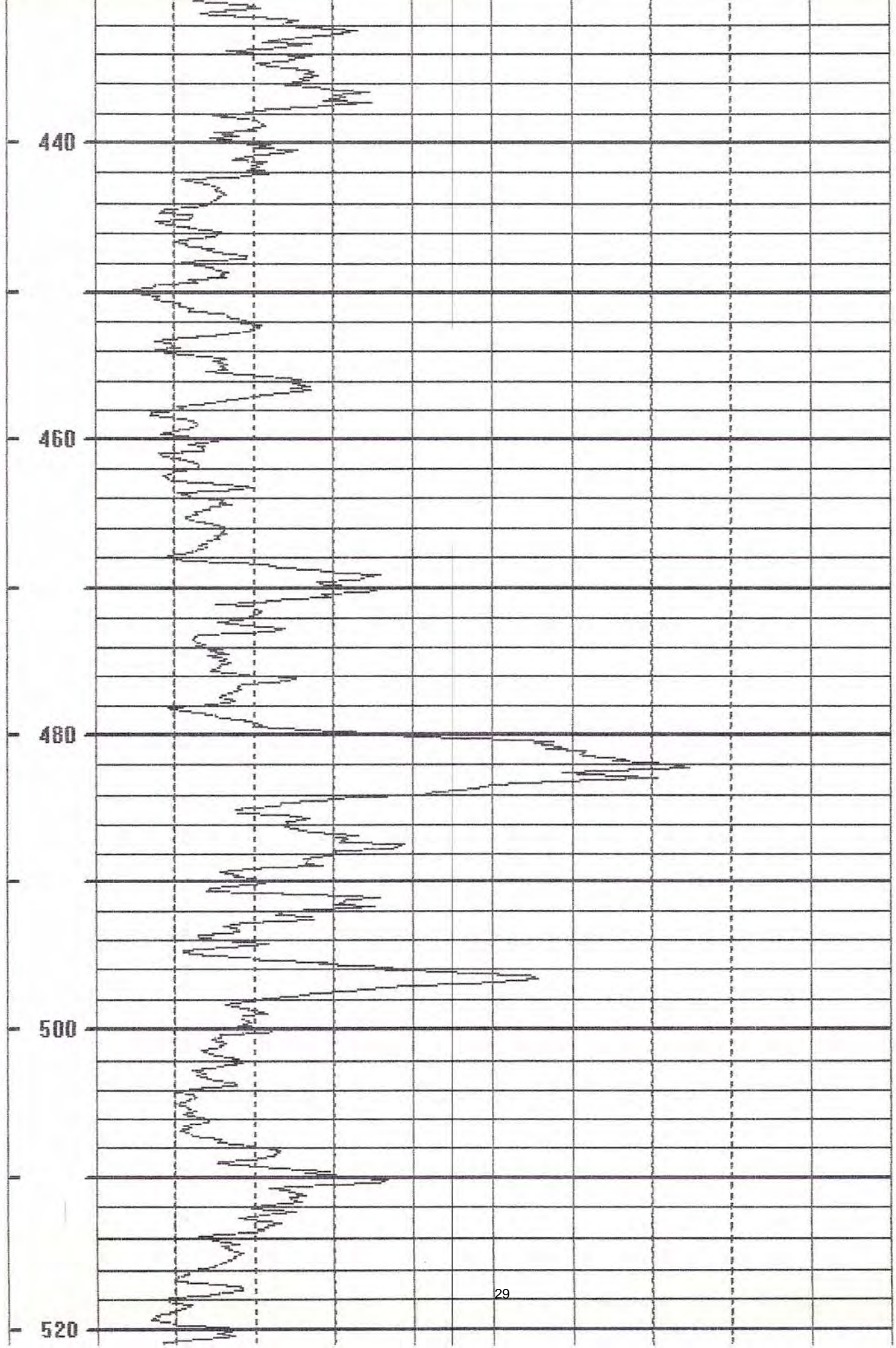
260

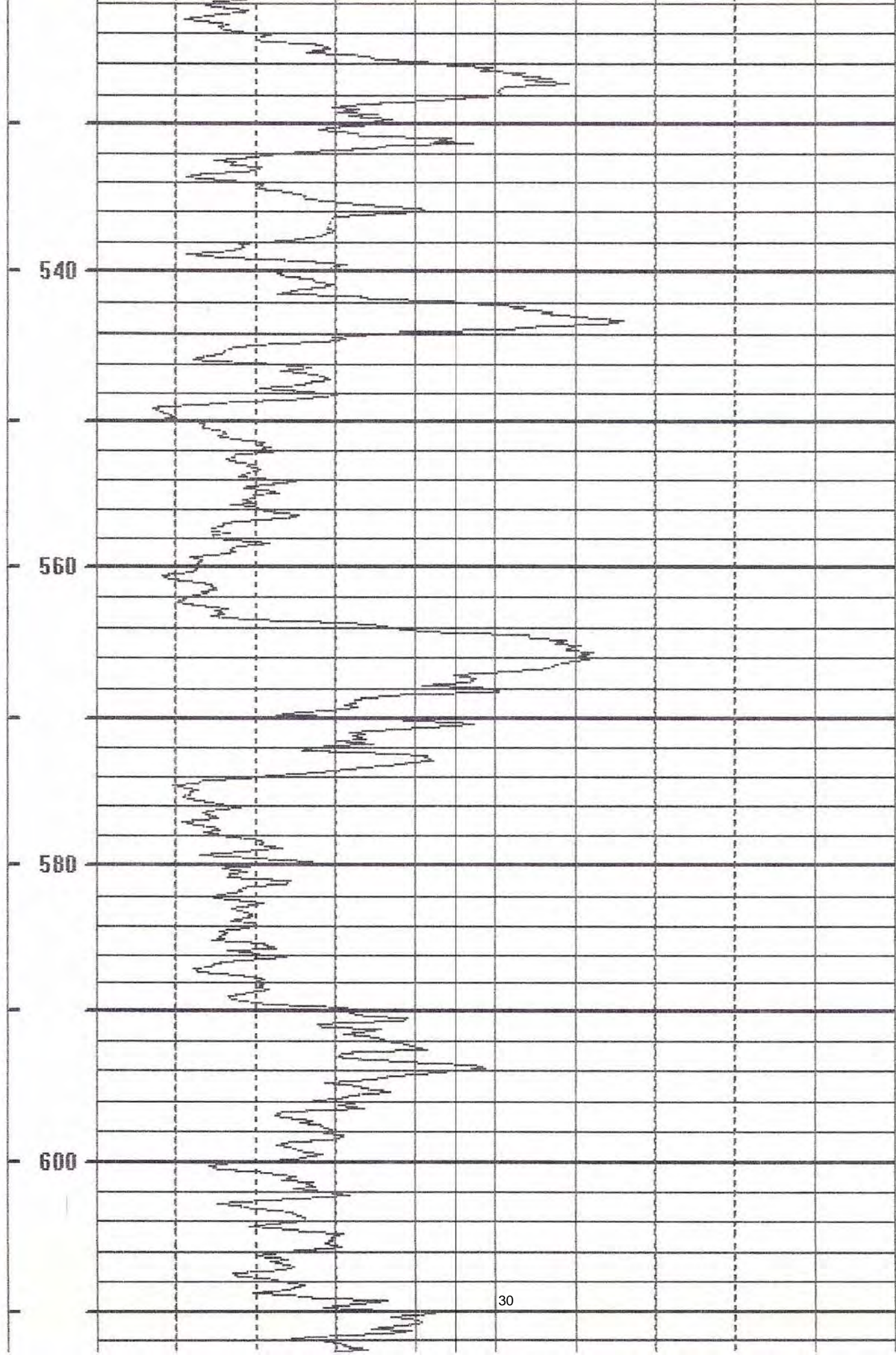
280

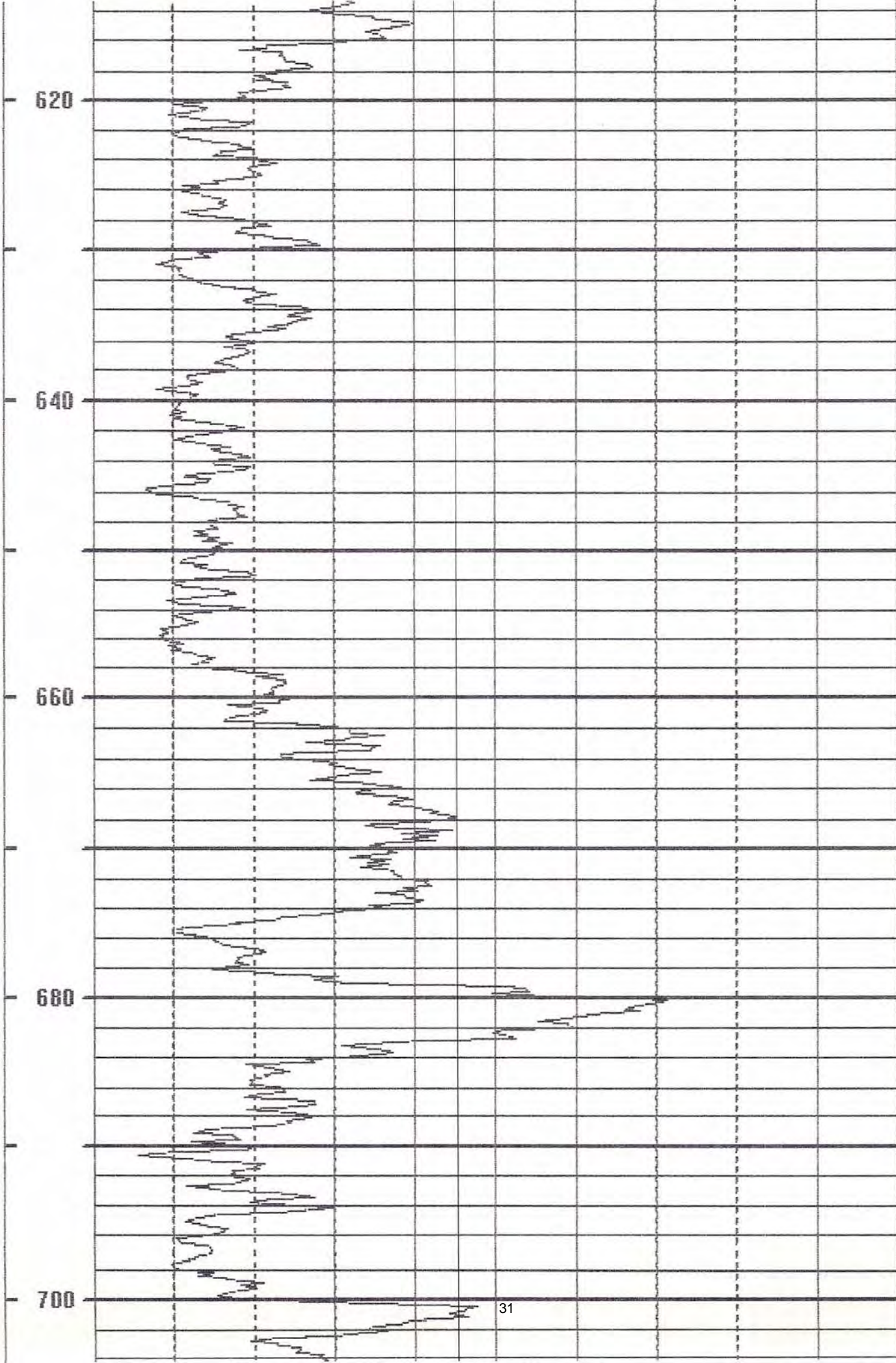
300

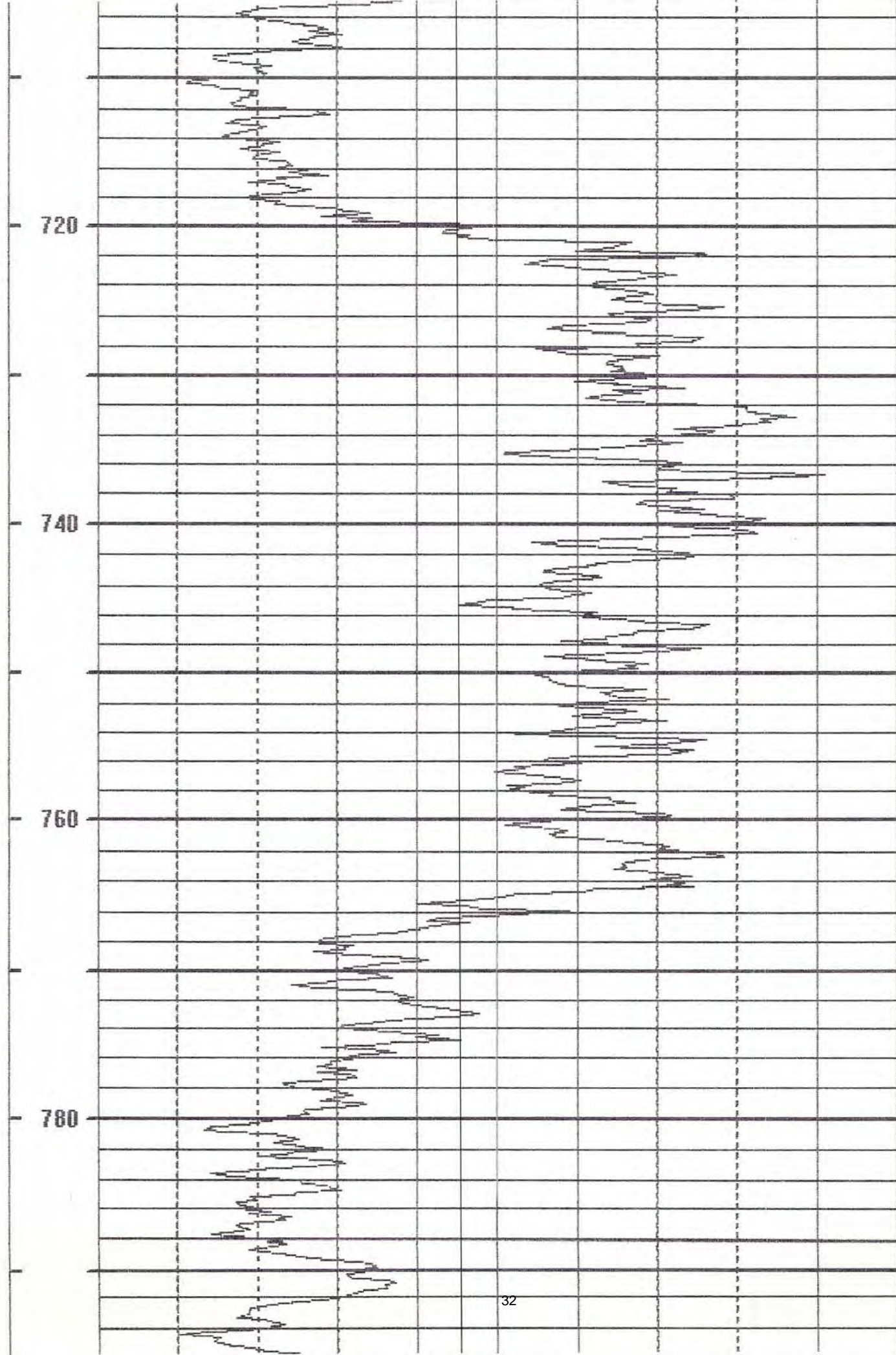
320

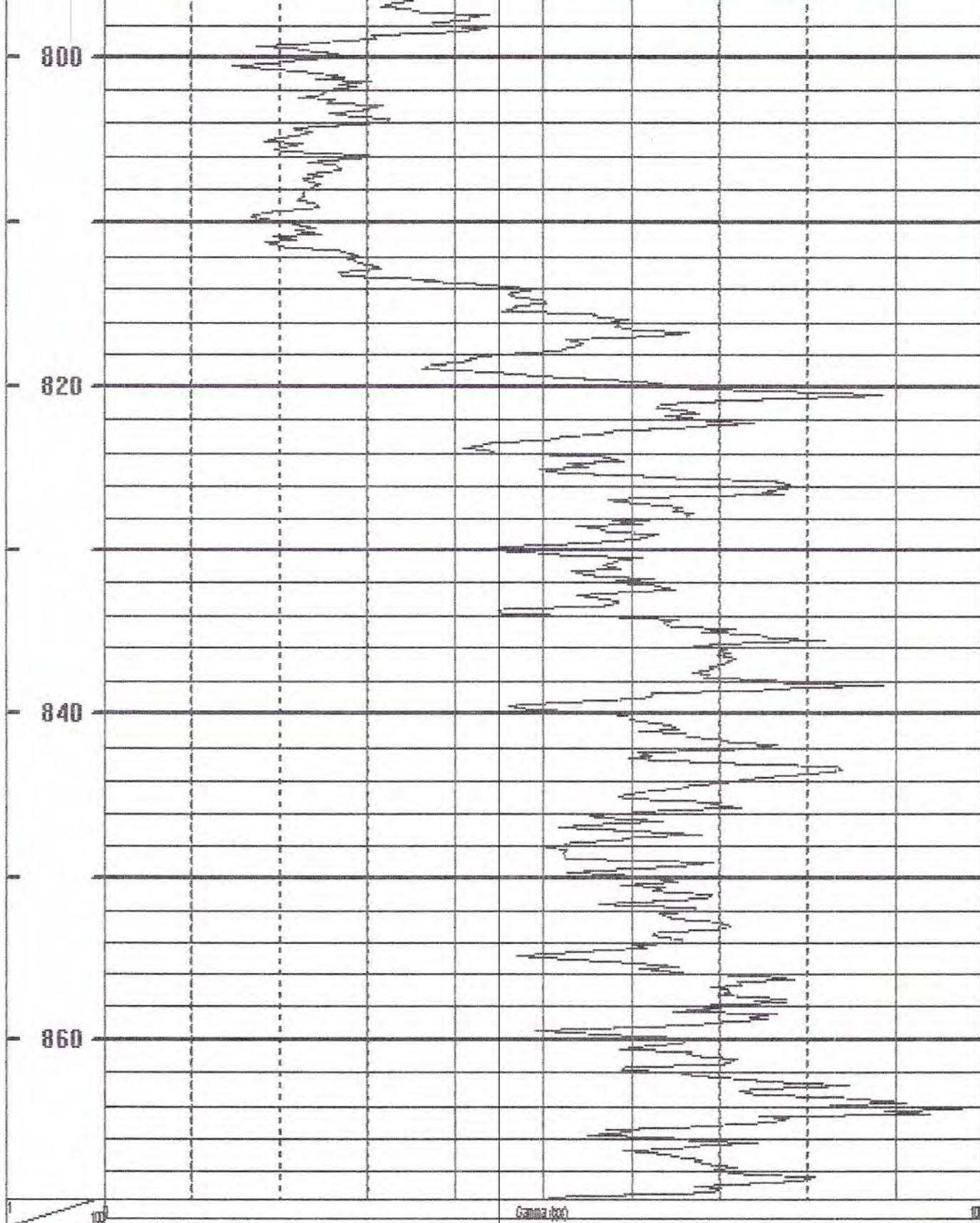






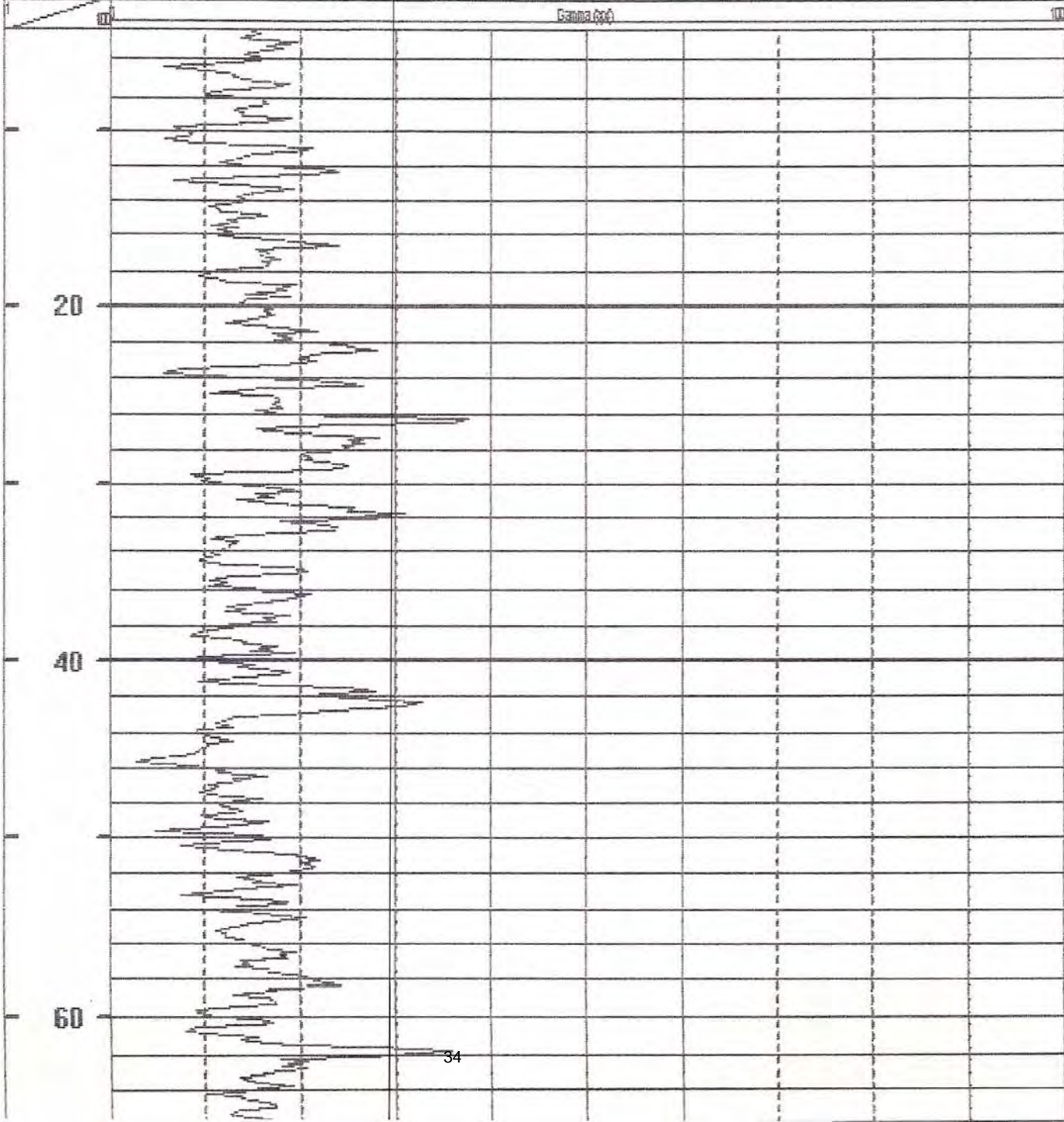


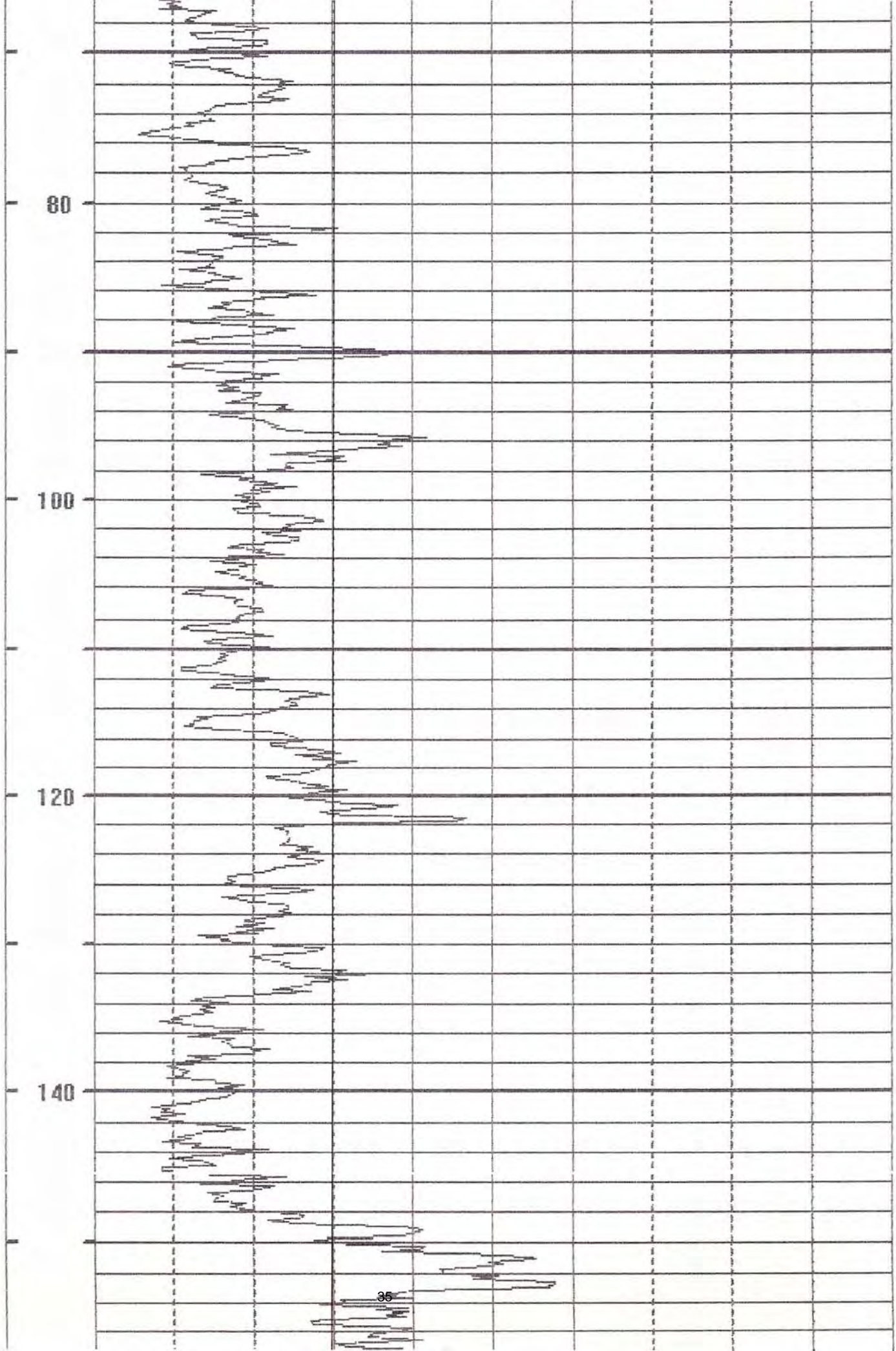


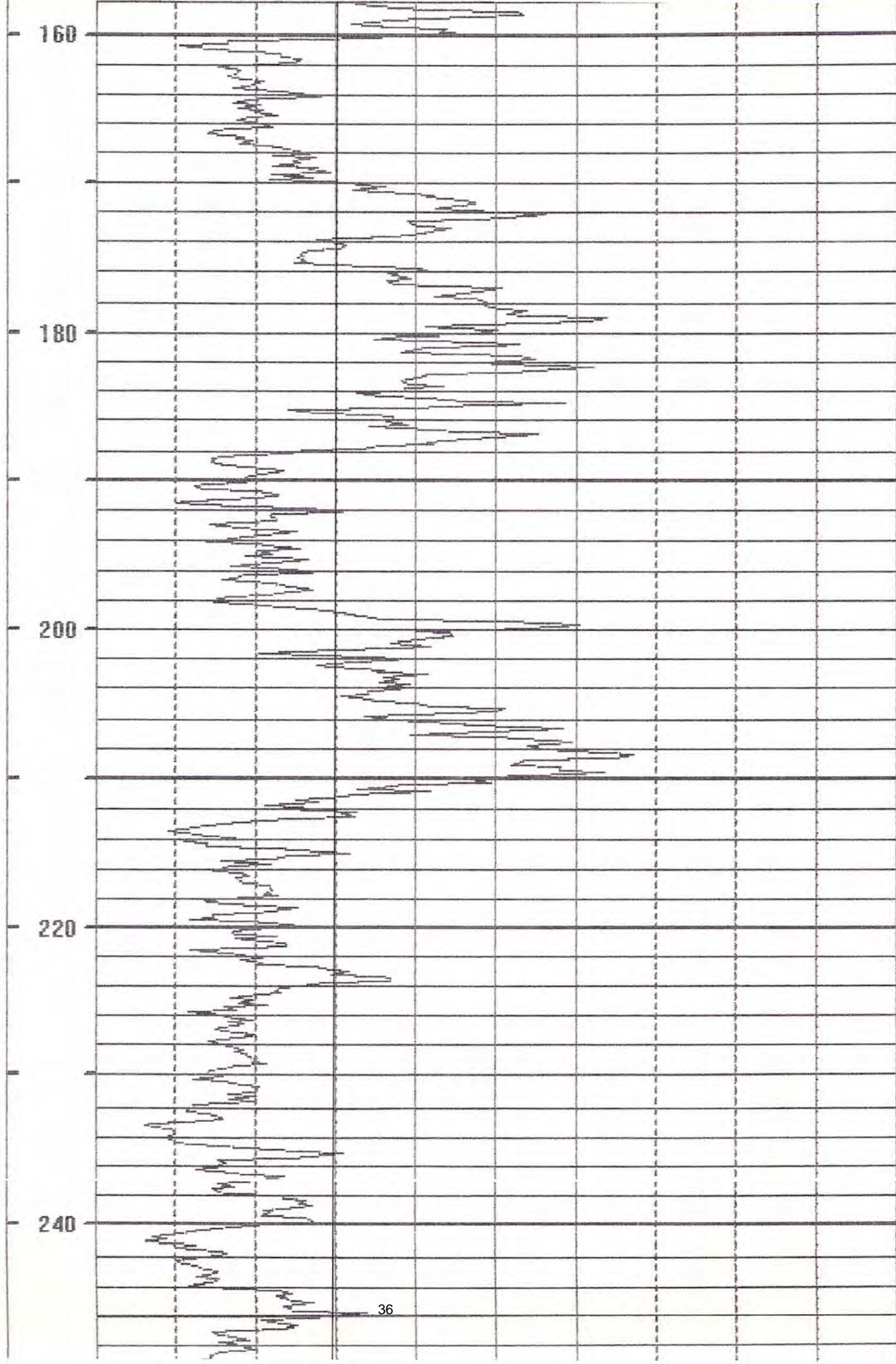


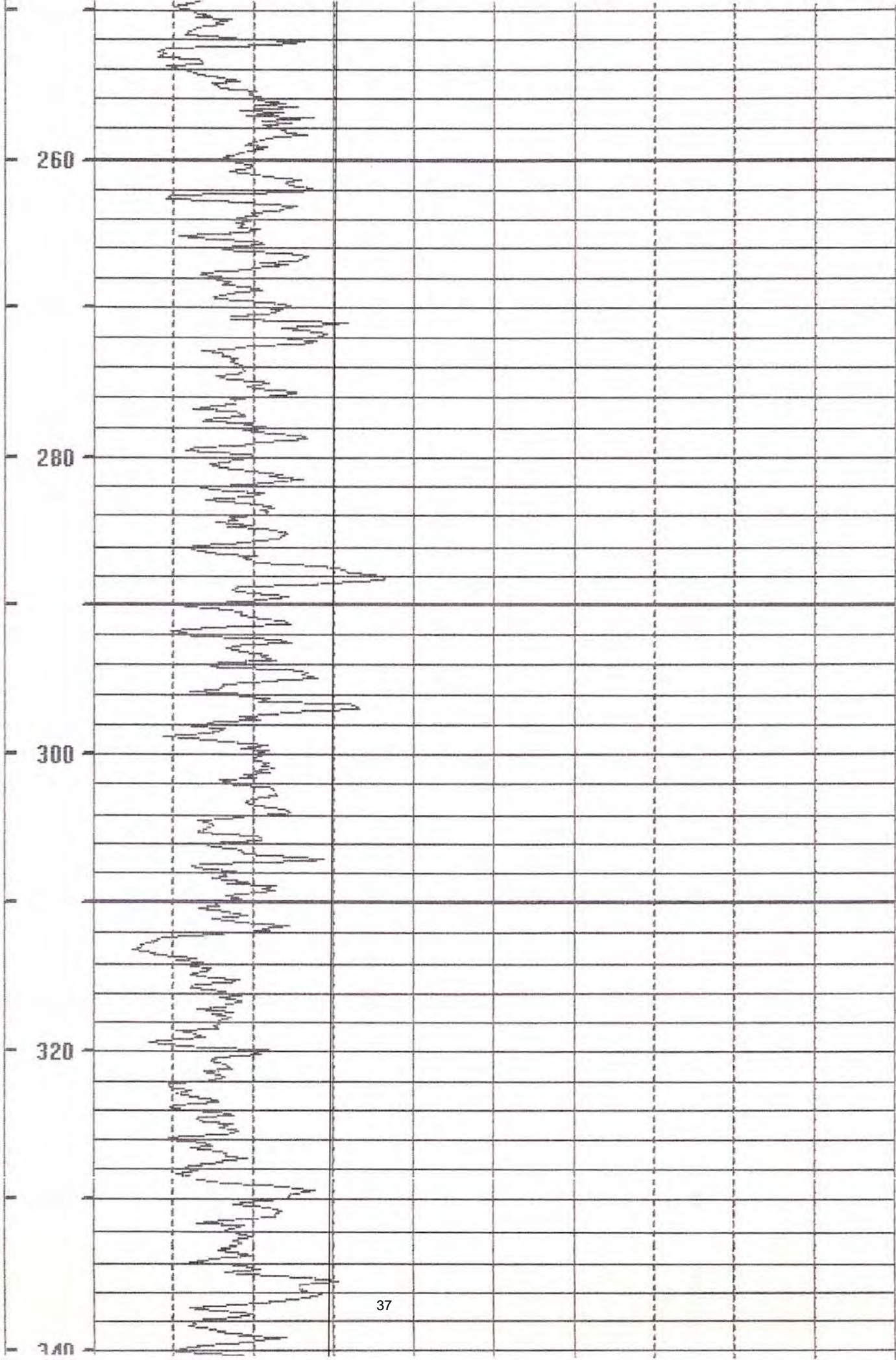
Date: Tuesday, July 31, 2012 Time: 16:22 File: C:\Documents and Settings\Administrator\My Documents\911978136.rtd

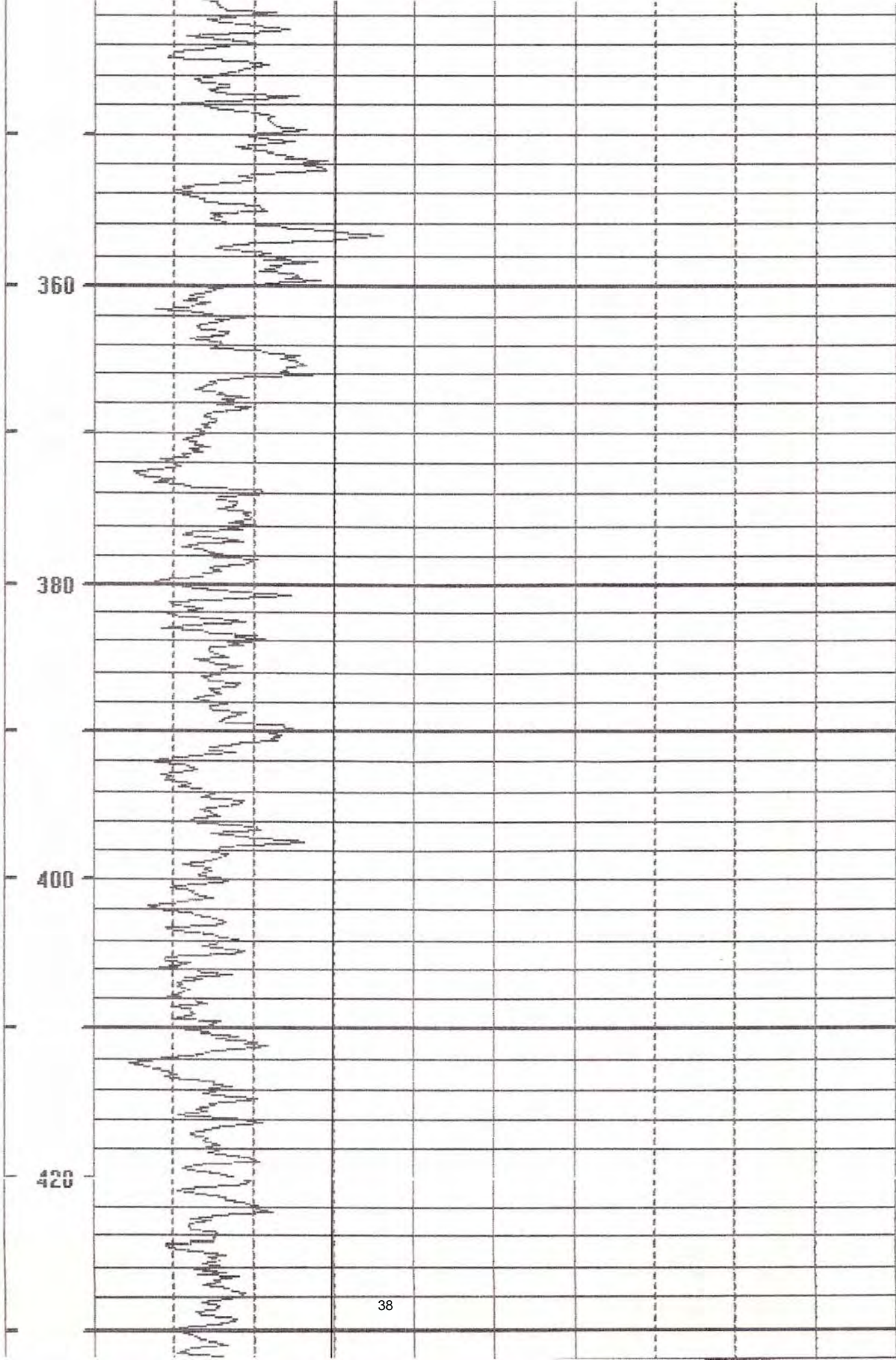
COMPANY: DELTA WELL & PUMP CO., INC.		Casing
Location: MWIRP BETHPAGE		
Well	VPB-136	UP
Date	07/31/2012	BH Fluid
File Name	717	Witness: STAN









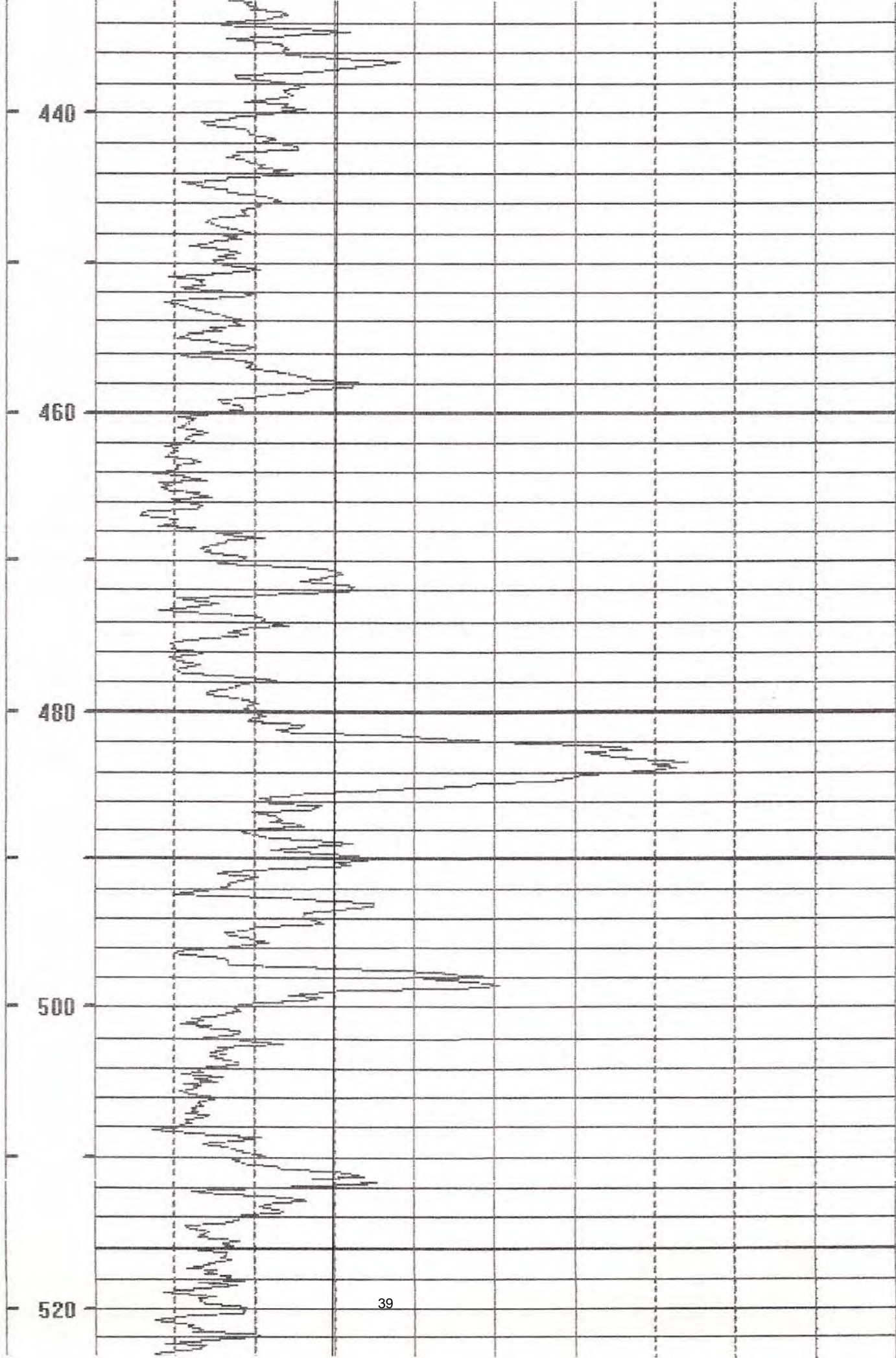


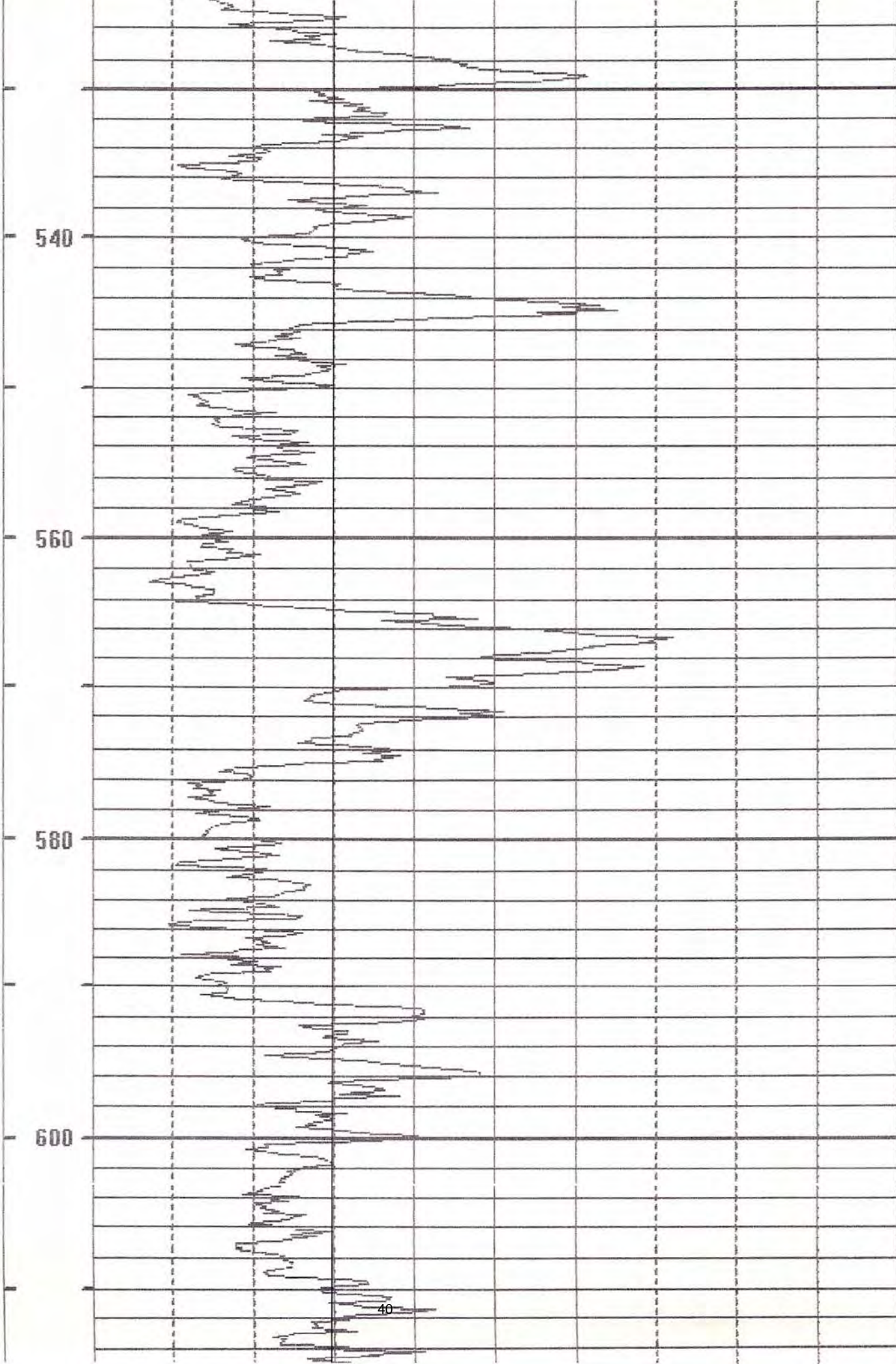
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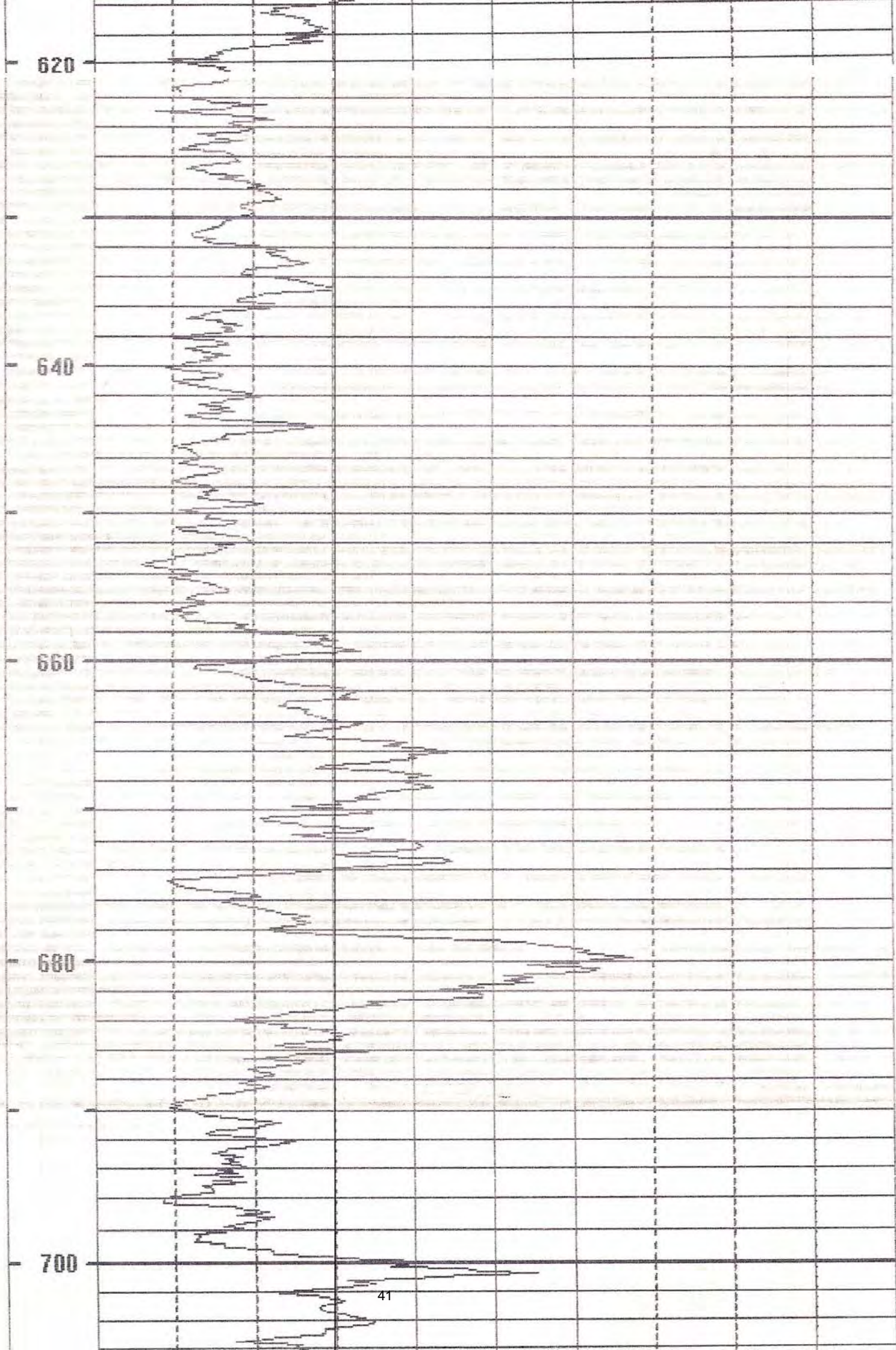
380

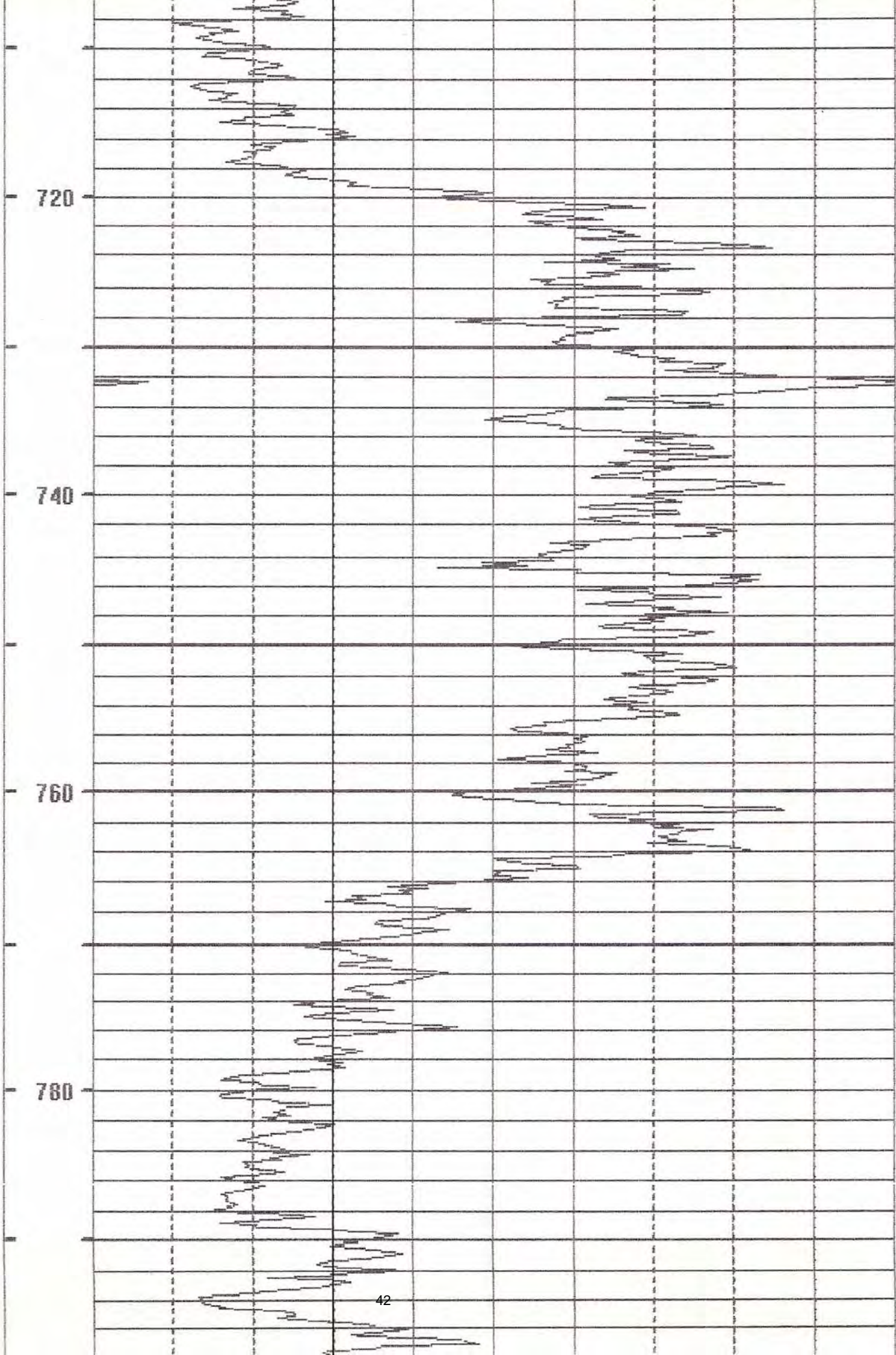
400

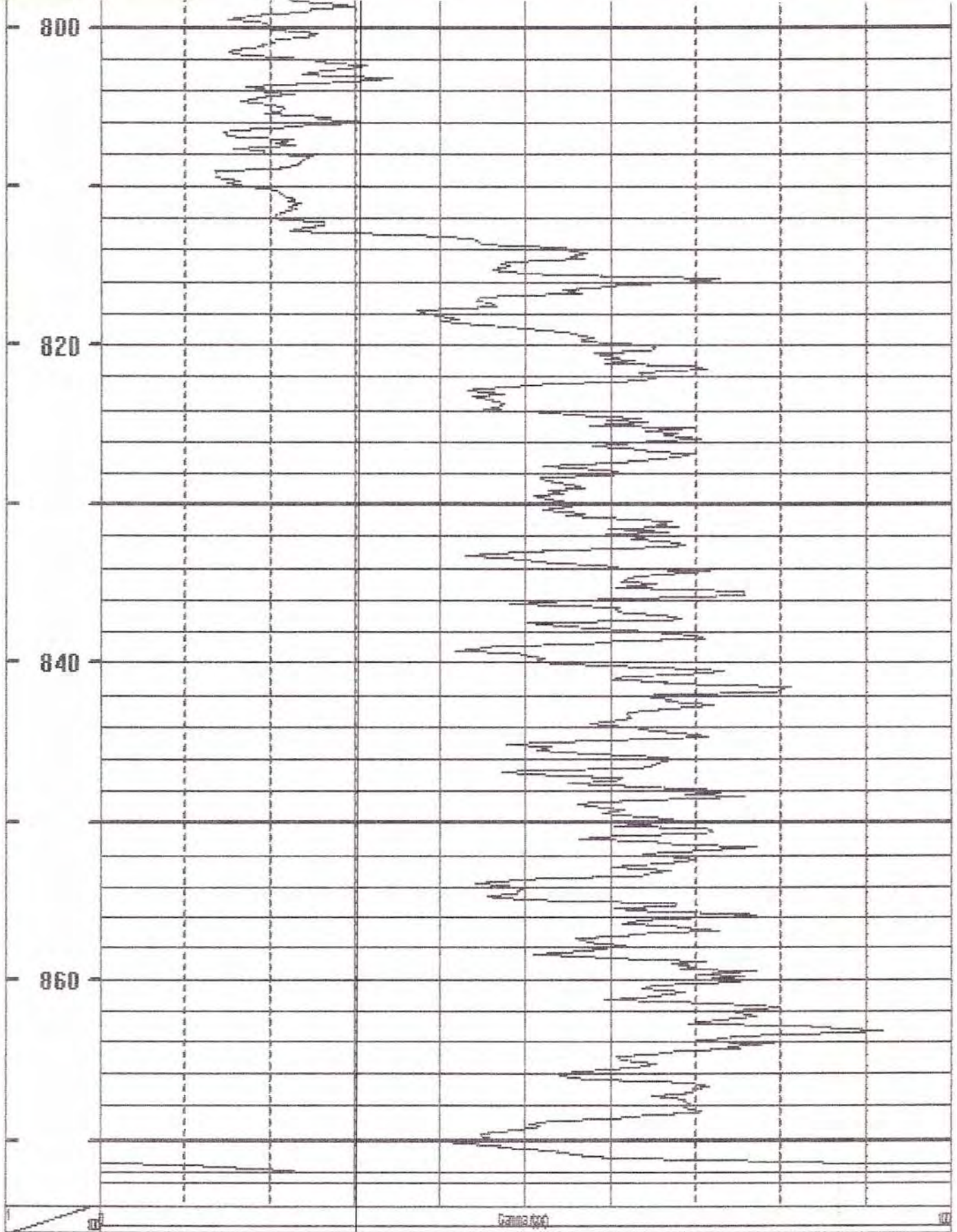
420











Date: Tuesday, July 31, 2012 Time: 15:21 File: C:\Documents\6193\6193-0000\17\17WP8136.prd

Section 3

VPB 136 Groundwater Sample Log Sheets



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW- 061**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: _____
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date: <u>7 / 10 / 12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: <u>1530</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method: <u>Hydropunch</u>	<u>RED BEN</u>	<u>7.58</u>	<u>.883</u>	<u>32.53</u>	<u>>1000</u>	<u>1.78</u>	<u>-41</u>	<u>.566</u>

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	<input type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s):
<input type="checkbox"/> MS/MSD	Duplicate ID No.:	<i>SJC</i>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-101**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1123
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date:	<u>7/11/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>0940</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	<u>NA</u> <u>9/L</u>
Method:	Hydropunch	<u>RED BRN</u>	<u>7.43</u>	<u>837</u>	<u>27.82</u>		<u>9.04</u>	<u>-46</u>	<u>.536</u>

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-161**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1123
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:									TDS
Date:	7/11/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	1210	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	LT. RED	6.24	162	29.86	70	4.14	59	105.96

PURGE DATA:									
Date:	NA	B2N		LaMotte					
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required			
Analysis	Preservative	Container Requirements	Collected
VOCS	HCL/4 DEG C	1 or 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCS	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:
 2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-²²¹201 SJC**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1123
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date:	<u>7 / 11 / 12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1600</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA <u>g/L</u>
Method:	<u>Hydropunch</u>	<u>LT BRN</u>	<u>5.35</u>	<u>160</u>	<u>29.73</u>	<u>93</u>	<u>4.09</u>	<u>150</u>	<u>104</u>

PURGE DATA: LAMOTTE

Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-241**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data C.O.C. No.: **1123**
 Monitoring Well Data Type of Sample:
 Other Well Type: **Vertical Profile Boring** Low Concentration
 QA Sample Type: _____ High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
7/12/12	BRN	5-6	—	—	>1000	—	—	—
1000								
Method: Hydropunch								

PURGE DATA:

Date: NA								
Method: NA								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	✓

OBSERVATIONS / NOTES:

2" MVV = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

SCREEN EXPOSED ONLY
 6" (SAND) TURBID.

Circle if Applicable: _____ Signature(s): *SJC Conte*

MS/MSD Duplicate ID No.: _____



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-261**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data C.O.C. No.: **1123**
 Monitoring Well Data Type of Sample:
 Other Well Type: Vertical Profile Boring Low Concentration
 QA Sample Type: _____ High Concentration

SAMPLING DATA: TDS									
Date:	7/12/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	1200	Visual	Standard	ms/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	LT BRN	6.22	-138	27.54	113	3.20	22	-089 g/l

PURGE DATA: LaMotte									
Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required			
Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:
 2" MVV = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC Conto</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW- 281**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: Vertical Profile Boring
- QA Sample Type: _____

C.O.C. No.: **1123**
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	TDS
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	Other
7/12/12	LT BRN	6.21	.211	27.40	112	3.29	27	138

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hypodermic sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
--------	-------------------

Signature(s):

SJC



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **EP-VPB136-GW-301**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: Vertical Profile Boring
- QA Sample Type: _____

C.O.C. No.: 1209
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:									TDS
Date:	<u>7/13/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>0940</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	<u>NA 9/L</u>
Method:	<u>Hydropunch</u>	<u>LT BRN</u>	<u>6.17</u>	<u>6.17</u>	<u>24.76</u>	<u>380</u>	<u>5.31</u>	<u>30</u>	<u>132</u>

PURGE DATA:									
Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required			
Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL4 DEG C</u>	<u>1 of 2 40ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 or 8 oz. Glass Jar</u>	
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	

OBSERVATIONS / NOTES:
 2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s):
<input type="checkbox"/> MS/MSD	Duplicate ID No.:	<i>SJC</i>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-321**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1209
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	7/16/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	1120	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	BEN	5-6	—	—	—	—	—	—

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2 40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

ONLY ENOUGH FOR 2 VIALS
 CLAYEY SAND ON H.P.
 SCREEN, WHICH WAS EXPOSED
 12"

Circle if Applicable: _____ Signature(s): *SJ Conti*

MS/MSD Duplicate ID No.: _____



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-341**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1209
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	TDS
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	Other
7/16/12	V. LT.	6.41	182	26.45	194	4.40	27	118.9/L

PURGE DATA

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	<input type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable: _____ Signature(s): SJC

MS/MSD Duplicate ID No.: _____



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW- 361**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1209
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date: <u>7/16/12</u>	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Time: <u>1500</u>								
Method: <u>Hydropunch</u>	<u>LT BRN</u>	<u>6.32</u>	<u>0.168</u>	<u>26.97</u>	<u>150</u>	<u>3.15</u>	<u>73</u>	<u>109 g/L</u>

PURGE DATA: TO CLEAR

Date: <u>NA</u>								
Method: <u>NA</u>								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-381**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**
 Domestic Well Data C.O.C. No.: **1210**
 Monitoring Well Data Type of Sample:
 Other Well Type: **Vertical Profile Boring** Low Concentration
 QA Sample Type: High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
7/17/12	LT GRAY	—	—	—	—	—	—	—
1000								
Method: Hydropunch								

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters Check box if not enough volume.

Used pH paper instead of water quality meter Check box if used pH paper.

ONLY ENOUGH FOR 1 VIAL.
SAND-TR CLAY ON 1/2" P
SCREEN - EXPOSED 10"

Circle if Applicable:	Signature(s):
MS/MSD Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-401**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1210
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	g/L
7/17/12	LT BRN	5.20	233	24.12	> 1000	286	86	184

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	<input type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: BP-VPB136-GW-421
 Sample Location: VPB-136
 Sampled By: SJC

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1210
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/17/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1420</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	<u>NA</u>
Method:	Hydropunch	<u>BRN</u>	<u>6.82</u>	<u>268</u>	<u>26.53</u>	<u>>1000</u>	<u>3.17</u>	<u>-15</u>	<u>.174 GL</u>

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SJC



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-441**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1210
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date: <u>7 / 18 / 12</u>	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Other <u>91L</u>
Time: <u>0910</u>								
Method: <u>Hydropunch</u>	<u>LT</u>	<u>6.07</u>	<u>147</u>	<u>26.04</u>	<u>124</u>	<u>5.98</u>	<u>30</u>	<u>095</u>

PURGE DATA: BRN

Date: <u>NA</u>								
Method: <u>NA</u>								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable: _____ Signature(s): S. Condi

MS/MSD	Duplicate ID No.:
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Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-461**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data C.O.C. No.: **1210**
 Monitoring Well Data Type of Sample:
 Other Well Type: **Vertical Profile Boring** Low Concentration
 QA Sample Type: High Concentration

SAMPLING DATA:

Date:	7/18/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	1115	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	LT BR	—	—	—	—	—	—	—

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters **NA** ONLY ENOUGH FOR 1 VIAL
 Check box if not enough volume. MAY NOT BE REPRESENTATIVE
 OF DEPTH

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):

SJC Conti



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: BP-VPB136-GW- 481
 Project No.: **112G00622/112G02751** Sample Location: VPB-136
PRE-DESIGN FIELD INVES Sampled By: SJC
 Domestic Well Data C.O.C. No.: 1210
 Monitoring Well Data Type of Sample:
 Other Well Type: Vertical Profile Boring Low Concentration
 QA Sample Type: High Concentration

SAMPLING DATA:

Date: <u>7/18/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: <u>1400</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method: <u>Hydropunch</u>	<u>BRN</u>	<u>5-6</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

PURGE DATA:

Date: <u>NA</u>								
Method: <u>NA</u>								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCS	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

V. TURBID SAMPLE - ONLY ENOUGH FOR 2 VIALS - NO PARAMETERS.

Circle if Applicable:	Signature(s):
MS/MSD Duplicate ID No.:	<u>SJC</u>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-501**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1210
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
7/19/12	BRN	—	—	—	VERY	—	—	—
0910								
Method: Hydropunch								

PURGE DATA:

Date:	Method:	Monitor Reading (ppm):	Well Casing Diameter & Material Type:	Total Well Depth (TD):	Static Water Level (WL):	One Casing Volume(gal/L):	Start Purge (hrs):	End Purge (hrs):	Total Purge Time (min):	Total Vol. Purged (gal/L):
NA	NA									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

ONLY ENOUGH FOR 1 VIAL
 SCREEN EXPOSED 6" w/
 SAND-TR CLAY.

Circle if Applicable: _____ Signature(s): SJ Conti

MS/MSD	Duplicate ID No.:
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Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-521**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1210
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
7/19/12	LT BRN	5-6	—	—	—	—	—	—
1120								
Method: Hydropunch								

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

CLAYEY SAND ON H.P. SCREEN
 (exposed 8") 1 VIAL - MAY
 NOT BE REPRESENTATIVE OF
 FORMATION - MIXED w/ MUD
 OF DRILLING.

Circle if Applicable:	
MS/MSD	Duplicate ID No.:

Signature(s):



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-541**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**

Domestic Well Data C.O.C. No.: **1210**
 Monitoring Well Data Type of Sample:
 Other Well Type: **Vertical Profile Boring** Low Concentration
 QA Sample Type: High Concentration

SAMPLING DATA:									
Date:	7/19/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	1515	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	TDS
Method:	Hydropunch	V. LT Bdr	6.47	1106	25.41	206	5.49	14	068

PURGE DATA:									
Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required			
Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:
 2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-561**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1212
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/20/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>0945</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	<u>Hydropunch</u>	<u>BRN</u>	—	—	—	—	—	—	—

PURGE DATA:

Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL/4 DEG C</u>	<u>1 of 2-40ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 or 8 oz. Glass Jar</u>	<input type="checkbox"/>
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper. NA

**VERY TURBID - POOR
 Sample - SOME GW MIX
 w/ MUD.**

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	<u>SJC</u>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-581**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1212
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date:	<u>7/23/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>0950</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	<u>3/L</u> NA
Method:	Hydropunch	<u>LT BRN</u>	<u>5.41</u>	<u>151</u>	<u>22.42</u>	<u>234</u>	<u>10.39</u>	<u>133</u>	<u>097</u>

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	<input type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC Condr</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-601**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: Vertical Profile Boring
- QA Sample Type: _____

C.O.C. No.: 1212
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/23/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1130</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	<u>Hydropunch</u>	<u>BRN</u>	<u>5-6</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

PURGE DATA:

Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL/4 DEG C</u>	<u>1 of 2-48ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 of 8 oz. Glass Jar</u>	
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	

OBSERVATIONS / NOTES:

2" MVV = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

TURBID - GW MIXED
w/ MUD - SCREEN OPEN
12"

Circle if Applicable:		Signature(s):
<input type="checkbox"/> MS/MSD	Duplicate ID No.:	<u>SJC</u>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-~~GW~~-072312**
Sample Location: **VPB-136**
Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1212
Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: LAMOTTE TDS

Date:	<u>7/23/12</u>	Color	<u>Visual</u>	pH	<u>7.10</u>	S.C.	<u>-121</u>	Temp.	<u>37.16</u>	Turbidity	<u>1.01</u>	DO	<u>3.65</u>	ORP	<u>217</u>	Other	<u>91L</u>
Time:	<u>1300</u>	Visual		Standard		mS/cm		Degrees C		NTU		mg/l		mV		NA	
Method:	<u>Hydropunch</u>	<u>CLEAR</u>															<u>078</u>

PURGE DATA: 48/LAMM HORIBA

Date:	<u>NA</u>																
Method:	<u>NA</u>																
Monitor Reading (ppm):																	
Well Casing Diameter & Material																	
Type:																	
Total Well Depth (TD):																	
Static Water Level (WL):																	
One Casing Volume(gal/L):																	
Start Purge (hrs):																	
End Purge (hrs):																	
Total Purge Time (min):																	
Total Vol. Purged (gal/L):																	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL/4 DEG C</u>	<u>1 or 2-40ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 or 8 oz. Glass Jar</u>	
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
Check box if not enough volume.

Used pH paper instead of water quality meter
Check box if used pH paper.

**SOURCE WATER (SW)
FROM HYDRANT AND
HOSE.**

Circle if Applicable: MS/MSD Duplicate ID No.: _____ Signature(s): S. Conti



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **DM- BP-VPB136-GW-620**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1212
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>7/23/12</u>	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Time: <u>1310</u>	<u>BRN</u>	<u>5-6</u>	—	—	—	—	—	—
Method: <u>Hydropunch</u>								

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

NA

Used pH paper instead of water quality meter
 Check box if used pH paper.

NO PARAMETERS DUE TO HIGH TURB OF MUD SAMPLE FROM DRILLING

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SJC Conte



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-621**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1212
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/23/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1430</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	<u>Hydropunch</u>	<u>BRN</u>	<u>5.76</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

PURGE DATA:

Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL/4 DEG C</u>	<u>1 or 2- 40ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 or 8 oz. Glass Jar</u>	
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

NOT ENOUGH FOR
 PARAMETERS - SCREEN
 COATED W/ CLAY & SAND
 EXPOSED 10"

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

S. J. Conti



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-041**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1213
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
7/24/12	BRN	5-6	—	—	—	—	—	—
0915								
Method: Hydropunch								

PURGE DATA:

Date:	NA							
Method:	NA							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

ONLY 1 VIAL - SAND-TR
 CLAY ON SCREEN (exposed
 10")

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	<i>SJC</i>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-661**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1213
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: TDS

Date:	<u>7 / 24 / 12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1130</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA <u>94</u>
Method:	Hydropunch	<u>BCN</u>	<u>8.52</u>	<u>0.578</u>	<u>25.28</u>	<u>>800</u>	<u>2.71</u>	<u>13</u>	<u>.370</u>

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	<input type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Circle if Applicable:		Signature(s): <i>SJC</i>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: BP-VPB136-GW-681
 Project No.: **112G00622/112G02751** Sample Location: VPB-136
PRE-DESIGN FIELD INVES Sampled By: SJC

Domestic Well Data C.O.C. No.: 1213
 Monitoring Well Data Type of Sample:
 Other Well Type: Vertical Profile Boring Low Concentration
 QA Sample Type: _____ High Concentration

SAMPLING DATA:

Date:	<u>7/24/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1315</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	<u>Hydropunch</u>	<u>BRN</u>	<u>5-6</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

PURGE DATA:

Date:	<u>NA</u>								
Method:	<u>NA</u>								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	<u>HCL/4 DEG C</u>	<u>1 of 2-40ml Glass Vials</u>	<input checked="" type="checkbox"/>
TOC	<u>4 DEG C</u>	<u>4 or 8 oz. Glass Jar</u>	
VOCs	<u>4 DEG C</u>	<u>1-40ml Glass Vial</u>	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

Removed H.P. early due to drilling fluids being forced from boring - possibly due to some gravel caving in hole (Lost Drill water at this depth)

Circle if Applicable: _____ Signature(s): SJLonte

MS/MSD	Duplicate ID No.:
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Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: BP-VPB136-GW-701
Sample Location: VPB-136
Sampled By: SJC

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1213
Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/24/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1530</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	<u>BRN</u>	<u>5.6</u>	—	—	—	—	—	—

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

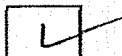
2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
Check box if not enough volume.



Used pH paper instead of water quality meter
Check box if used pH paper.



2 VIALS
ONLY ENOUGH FOR 2
SCREEN OPEN 10"
SAND ON SCREEN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SJC Condo



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW** Sample ID No.: **BP-VPB136-GW-721**
 Project No.: **112G00622/112G02751** Sample Location: **VPB-136**
PRE-DESIGN FIELD INVES Sampled By: **SJC**
 Domestic Well Data C.O.C. No.: **1213**
 Monitoring Well Data Type of Sample:
 Other Well Type: **Vertical Profile Boring** Low Concentration
 QA Sample Type: _____ High Concentration

SAMPLING DATA:

Date:	7/25/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	0930	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	—	—	—	—	—	—	—	—

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	NO
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters **NO SAMPLE**
 Check box if not enough volume. **CLAYEY SAND ON SCREEN**

Used pH paper instead of water quality meter

Check box if used pH paper.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	<i>SJC</i>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name:	BETHPAGE OU-2 OFFSITE GW	Sample ID No.:	BP-VPB136-GW-741
Project No.:	112G00622/112G02751	Sample Location:	VPB-136
	PRE-DESIGN FIELD INVES	Sampled By:	SJC
<input type="checkbox"/> Domestic Well Data		C.O.C. No.:	1213
<input type="checkbox"/> Monitoring Well Data		Type of Sample:	
<input checked="" type="checkbox"/> Other Well Type:	Vertical Profile Boring	<input checked="" type="checkbox"/> Low Concentration	
<input type="checkbox"/> QA Sample Type:		<input type="checkbox"/> High Concentration	

SAMPLING DATA:									
Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other	
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA	
7/25/12	BRN	5-6	—	—	—	—	—	—	
1200									
Method:	Hydropunch								

PURGE DATA:									
Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required			
Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2-40ml Glass Vials	✓
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:
 2" MW = 0.163 gal/ft
 Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

GOOD SAMPLE, BUT NOT ENOUGH FOR PARAMETERS TR GRAY CLAY ON H-P DRIVE POINT.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	<i>[Signature]</i>



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **SB**
~~BP-VPB136-CW-761~~
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: 1213
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	<u>7/25/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	<u>1400</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	<u>GRAY</u>							

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 or 2- 40ml Glass Vials	
TOC	4 DEG C	<u>4</u> or 8 oz. Glass Jar	<input checked="" type="checkbox"/>
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MVW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

STIFF-GRAY-SILTY CLAY
MOIST

SS-# 4

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SJ Conte



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-792**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

Domestic Well Data
 Monitoring Well Data
 Other Well Type: Vertical Profile Boring
 QA Sample Type: _____

C.O.C. No.: N/A
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>7/26/12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: <u>1400</u>	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method: <u>Hydropunch</u>	—	—	—	—	—	—	—	—

PURGE DATA:

Date: <u>NA</u>								
Method: <u>NA</u>								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCS	HCL/4 DEG C	1 or 2- 40ml Glass Vials	NO
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCS	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.

Used pH paper instead of water quality meter
 Check box if used pH paper.

NO SAMPLE: VF SAND ON SCREEN (OPEN 5")

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: **BETHPAGE OU-2 OFFSITE GW**
 Project No.: **112G00622/112G02751**
PRE-DESIGN FIELD INVES

Sample ID No.: **BP-VPB136-GW-802**
 Sample Location: **VPB-136**
 Sampled By: **SJC**

- Domestic Well Data
- Monitoring Well Data
- Other Well Type:
- QA Sample Type:

Vertical Profile Boring

C.O.C. No.: **1214**
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	7/27/12	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	0850	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	NA
Method:	Hydropunch	GRAY BIR	5-C						

PURGE DATA:

Date:	NA								
Method:	NA								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs):									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	1 of 2- 40ml Glass Vials	<input checked="" type="checkbox"/>
TOC	4 DEG C	4 or 8 oz. Glass Jar	
VOCs	4 DEG C	1-40ml Glass Vial	

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

Not enough volume for water quality parameters
 Check box if not enough volume.



Used pH paper instead of water quality meter
 Check box if used pH paper.



ONLY 1 VIAL.
SAND ON SCREEN.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SJC



QA SAMPLE LOG SHEET

Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-071012
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: VPB-136 C.O.C. Number: 1123
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank

SAMPLING DATA:	WATER SOURCE:
----------------	---------------

Date: <u>7/10/12</u> Time: <u>1400</u> Method: _____	<input checked="" type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap <input type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant <input type="checkbox"/> Other _____
--	--

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
--	---

Product Name: _____ Supplier: _____ Manufacturer: _____ Order Number: _____ Lot Number: _____ Expiration Date: _____	Media Type: _____ Equipment Used: _____ Equipment Type: <input type="checkbox"/> Dedicated <input type="checkbox"/> Reusable
---	--

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	<u>2-40 ml GLASS VIALS</u>	<u>YES / NO</u>

OBSERVATIONS / NOTES:

Signature(s):



Tetra Tech, Inc.

QA SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-071312
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: _____ C.O.C. Number: 1209
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:	WATER SOURCE:
Date: <u>7-13-12</u>	<input checked="" type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap
Time: <u>0730</u>	<input type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant
Method: <u>NA</u>	<input type="checkbox"/> Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: _____	Media Type: _____
Supplier: _____	Equipment Used: _____
Manufacturer: _____	Equipment Type: <input type="checkbox"/> Dedicated
Order Number: _____	<input type="checkbox"/> Reusable
Lot Number: _____	
Expiration Date: _____	

SAMPLE COLLECTION INFORMATION:			
Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	<u>2-40</u> ml GLASS VIALS	<u>YES</u> / NO

OBSERVATIONS / NOTES:

Signature(s):



QA SAMPLE LOG SHEET

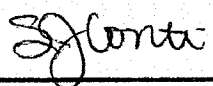
Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-071712
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: _____ C.O.C. Number: 1210
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:	WATER SOURCE:
Date: <u>7/17/12</u> Time: <u>0800</u> Method: _____	<input checked="" type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap <input type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant <input type="checkbox"/> Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: _____ Supplier: _____ Manufacturer: _____ Order Number: _____ Lot Number: _____ Expiration Date: _____	Media Type: _____ Equipment Used: _____ Equipment Type: <input type="checkbox"/> Dedicated <input type="checkbox"/> Reusable

SAMPLE COLLECTION INFORMATION:			
Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	2-40 ml GLASS VIALS	(YES) NO

OBSERVATIONS / NOTES:

Signature(s): 



QA SAMPLE LOG SHEET

Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-072012
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: _____ C.O.C. Number: 1212
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA: WATER SOURCE:

Date: 7-20-12 Laboratory Prepared Tap
 Time: 0800 Purchased Fire Hydrant
 Method: _____ Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water): RINSATE INFORMATION (If Applicable):

Product Name: _____ Media Type: _____
 Supplier: _____ Equipment Used: _____
 Manufacturer: _____ Equipment Type: _____
 Order Number: _____ Dedicated
 Lot Number: _____ Reusable
 Expiration Date: _____

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	<u>(2-4)</u> ml GLASS VIALS	<u>(YES)</u> / NO

OBSERVATIONS / NOTES:

Signature(s): SJ Conata



Tetra Tech, Inc.

QA SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-072412
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: _____ C.O.C. Number: 1213
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:	WATER SOURCE:
Date: <u>7-24-12</u>	<input checked="" type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap
Time: <u>0800</u>	<input type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant
Method: <u>—</u>	<input type="checkbox"/> Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: _____	Media Type: _____
Supplier: _____	Equipment Used: _____
Manufacturer: _____	Equipment Type: <input type="checkbox"/> Dedicated
Order Number: _____	<input type="checkbox"/> Reusable
Lot Number: _____	
Expiration Date: _____	

SAMPLE COLLECTION INFORMATION:			
Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	<u>(2-40 ml GLASS VIALS</u>	<u>(YES) NO</u>

OBSERVATIONS / NOTES:

Signature(s): SJC Conte



Tetra Tech, Inc.

QA SAMPLE LOG SHEET

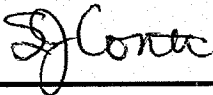
Project Site Name: BETHPAGE OU-2 OFFSITE Sample ID No.: BP-VPB-TB-072712
 Project Number: 112G00622/112G02751 Sampled By: SJC
 Sample Location: _____ C.O.C. Number: 1214
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:	WATER SOURCE:
Date: <u>7/27/12</u> Time: <u>0800</u> Method: _____	<input checked="" type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap <input type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant <input type="checkbox"/> Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: _____ Supplier: _____ Manufacturer: _____ Order Number: _____ Lot Number: _____ Expiration Date: _____	Media Type: _____ Equipment Used: _____ Equipment Type: <input type="checkbox"/> Dedicated <input type="checkbox"/> Reusable

SAMPLE COLLECTION INFORMATION:			
Analysis	Preservative	Container Requirements	Collected
VOCs	Cool 4°C /HCL	(2) 40 ml GLASS VIALS	(YES) / NO

OBSERVATIONS / NOTES:

Signature(s): 

Section 4
VPB 136 Analytical Data Sheets
(Chemtech and AirToxics)

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/10/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-061	SDG No.:	D3367
Lab Sample ID:	D3367-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID: 0.18	Level:	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034170.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.64	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	UQ	0.85	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg-
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	27		3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.95	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.68	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.93	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.98	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.88	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.78	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.73	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.87	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.63	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.85	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.61	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.63	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.78	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/10/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-061	SDG No.:	D3367
Lab Sample ID:	D3367-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034170.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.71	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.89	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.53	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.63	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	1.4	J	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.61	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	4.95	U	0.71	4.95	9.9	ug/Kg
95-47-6	o-Xylene	2.5	U	0.67	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.73	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.61	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.86	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.69	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	49.5	U	50	49.5	99	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		55 - 158		91%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		53 - 156		101%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 115		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		85 - 120		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	396367	4.35				
540-36-3	1,4-Difluorobenzene	719552	5.1				
3114-55-4	Chlorobenzene-d5	685499	9.3				
3855-82-1	1,4-Dichlorobenzene-d4	325475	12.22				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/10/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-061	SDG No.:	D3367
Lab Sample ID:	D3367-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034170.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
000111-84-2	Nonane	9.8	J			9.45	ug/Kg
	unknown10.25	14	J			10.25	ug/Kg
013427-43-5	1-Hexene, 3,3,5-trimethyl-	10	J			10.88	ug/Kg
000624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	11	J			11.2	ug/Kg
000124-18-5	Decane	19	J			11.33	ug/Kg
002847-72-5	Decane, 4-methyl-	9.2	J			11.68	ug/Kg
001678-93-9	Cyclohexane, butyl-	12	J			11.88	ug/Kg
000493-02-7	Naphthalene, decahydro-, trans-	12	J			12.28	ug/Kg
000464-48-2	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	10	J			12.88	ug/Kg
91-20-3	Naphthalene	1.8	J			14.14	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-101	SDG No.:	D3367
Lab Sample ID:	D3367-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006535.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	23		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-101	SDG No.:	D3367
Lab Sample ID:	D3367-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006535.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.5		70 - 120		119%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	53.1		85 - 120		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	455189	7.57				
540-36-3	1,4-Difluorobenzene	939484	8.49				
3114-55-4	Chlorobenzene-d5	869235	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	389798	13.24				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-101	SDG No.:	D3367
Lab Sample ID:	D3367-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006535.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-45-6	Difluorochloromethane	8.1	J			1.91	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-161	SDG No.:	D3367
Lab Sample ID:	D3367-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006536.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ/ CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	4.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-161	SDG No.:	D3367
Lab Sample ID:	D3367-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006536.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.8		70 - 120		118%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 120		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	450709	7.57				
540-36-3	1,4-Difluorobenzene	939436	8.49				
3114-55-4	Chlorobenzene-d5	873256	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	394804	13.24				



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-161	SDG No.:	D3367
Lab Sample ID:	D3367-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006536.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221	SDG No.:	D3367
Lab Sample ID:	D3367-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006537.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.7		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.41	J	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221	SDG No.:	D3367
Lab Sample ID:	D3367-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006537.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.4	*	70 - 120		121%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		85 - 115		99%	SPK: 50
2037-26-5	Toluene-d8	52		85 - 120		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	449903	7.57				
540-36-3	1,4-Difluorobenzene	936951	8.49				
3114-55-4	Chlorobenzene-d5	879934	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	398855	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221	SDG No.:	D3367
Lab Sample ID:	D3367-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006537.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221RE	SDG No.:	D3367
Lab Sample ID:	D3367-05RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006565.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.8		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.4	J	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221RE	SDG No.:	D3367
Lab Sample ID:	D3367-05RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006565.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.6	*	70 - 120		123%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	53.1		85 - 120		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		75 - 120		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	431521	7.57				
540-36-3	1,4-Difluorobenzene	897900	8.49				
3114-55-4	Chlorobenzene-d5	847911	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	391099	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-221RE	SDG No.:	D3367
Lab Sample ID:	D3367-05RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006565.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-241	SDG No.:	D3367
Lab Sample ID:	D3367-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034172.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.45	U	0.64	2.45	4.9	ug/Kg
74-87-3	Chloromethane	2.45	UQ	0.85	2.45	4.9	ug/Kg
75-01-4	Vinyl Chloride	2.45	U	1.2	2.45	4.9	ug/Kg
74-83-9	Bromomethane	2.45	U	2.4	2.45	4.9	ug/Kg
75-00-3	Chloroethane	2.45	U	1.4	2.45	4.9	ug/Kg
75-69-4	Trichlorofluoromethane	2.45	U	1.3	2.45	4.9	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.45	U	1.3	2.45	4.9	ug/Kg
75-35-4	1,1-Dichloroethene	2.45	U	1.4	2.45	4.9	ug/Kg
67-64-1	Acetone	24	J	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.45	U	1	2.45	4.9	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.45	U	0.94	2.45	4.9	ug/Kg
79-20-9	Methyl Acetate	2.45	U	1.5	2.45	4.9	ug/Kg
75-09-2	Methylene Chloride	2.45	U	1.4	2.45	4.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.45	U	0.68	2.45	4.9	ug/Kg
75-34-3	1,1-Dichloroethane	2.45	U	0.93	2.45	4.9	ug/Kg
110-82-7	Cyclohexane	2.45	U	0.99	2.45	4.9	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.45	U	0.97	2.45	4.9	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.45	U	0.88	2.45	4.9	ug/Kg
74-97-5	Bromochloromethane	2.45	U	0.78	2.45	4.9	ug/Kg
67-66-3	Chloroform	2.45	U	0.73	2.45	4.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.45	U	0.87	2.45	4.9	ug/Kg
108-87-2	Methylcyclohexane	2.45	U	1	2.45	4.9	ug/Kg
71-43-2	Benzene	2.45	U	0.37	2.45	4.9	ug/Kg
107-06-2	1,2-Dichloroethane	2.45	U	0.63	2.45	4.9	ug/Kg
79-01-6	Trichloroethene	2.45	U	0.85	2.45	4.9	ug/Kg
78-87-5	1,2-Dichloropropane	2.45	U	0.26	2.45	4.9	ug/Kg
75-27-4	Bromodichloromethane	2.45	U	0.61	2.45	4.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.45	U	0.63	2.45	4.9	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.45	U	0.78	2.45	4.9	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-241	SDG No.:	D3367
Lab Sample ID:	D3367-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034172.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.45	U	0.71	2.45	4.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.45	U	0.89	2.45	4.9	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.45	U	0.53	2.45	4.9	ug/Kg
106-93-4	1,2-Dibromoethane	2.45	U	0.63	2.45	4.9	ug/Kg
127-18-4	Tetrachloroethene	2.45	U	0.99	2.45	4.9	ug/Kg
108-90-7	Chlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
100-41-4	Ethyl Benzene	2.45	U	0.61	2.45	4.9	ug/Kg
179601-23-1	m/p-Xylenes	4.9	U	0.71	4.9	9.8	ug/Kg
95-47-6	o-Xylene	2.45	U	0.67	2.45	4.9	ug/Kg
100-42-5	Styrene	2.45	U	0.44	2.45	4.9	ug/Kg
75-25-2	Bromoform	2.45	U	0.73	2.45	4.9	ug/Kg
98-82-8	Isopropylbenzene	2.45	U	0.47	2.45	4.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.45	U	0.45	2.45	4.9	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.45	U	0.36	2.45	4.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.45	U	0.4	2.45	4.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.45	U	0.61	2.45	4.9	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.45	U	0.86	2.45	4.9	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.45	U	0.69	2.45	4.9	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
123-91-1	1,4-Dioxane	49	U	49	49	98	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.5		55 - 158		89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		53 - 156		101%	SPK: 50
2037-26-5	Toluene-d8	51.2		85 - 115		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		85 - 120		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	390570	4.35				
540-36-3	1,4-Difluorobenzene	713816	5.1				
3114-55-4	Chlorobenzene-d5	654031	9.3				
3855-82-1	1,4-Dichlorobenzene-d4	297836	12.22				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-241	SDG No.:	D3367
Lab Sample ID:	D3367-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034172.D	1		07/16/12	VF071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
062960-77-4	4-Octene, 2,6-dimethyl-, [S-(Z)]-	7.0	J			10.88	ug/Kg
000590-66-9	Cyclohexane, 1,1-dimethyl-	6.9	J			11.21	ug/Kg
057289-26-6	1-Dodecanol, 2-methyl-, (S)-	5.0	J			11.33	ug/Kg
	unknown 1.67	5.9	J			11.67	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	9.9	J			12.88	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	5.6	J			13.06	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-261	SDG No.:	D3367
Lab Sample ID:	D3367-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006538.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-261	SDG No.:	D3367
Lab Sample ID:	D3367-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006538.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60		70 - 120		120%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	53.3		85 - 120		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		75 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	442883	7.57				
540-36-3	1,4-Difluorobenzene	924231	8.49				
3114-55-4	Chlorobenzene-d5	854672	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	389805	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-261	SDG No.:	D3367
Lab Sample ID:	D3367-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006538.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-281	SDG No.:	D3367
Lab Sample ID:	D3367-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006539.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-281	SDG No.:	D3367
Lab Sample ID:	D3367-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006539.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.5	*	70 - 120		121%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 120		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		75 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	436733	7.57				
540-36-3	1,4-Difluorobenzene	919162	8.49				
3114-55-4	Chlorobenzene-d5	858211	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	388848	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/12/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB136-GW-281	SDG No.:	D3367
Lab Sample ID:	D3367-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006539.D	1		07/17/12	vR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-301	SDG No.:	D3413
Lab Sample ID:	D3413-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006576.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.3		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-301	SDG No.:	D3413
Lab Sample ID:	D3413-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006576.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	64.6	*	70 - 120		129%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	53		85 - 120		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		75 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	393076	7.57				
540-36-3	1,4-Difluorobenzene	842661	8.49				
3114-55-4	Chlorobenzene-d5	797266	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	356838	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-301	SDG No.:	D3413
Lab Sample ID:	D3413-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006576.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-301 RE	SDG No.:	D3413
Lab Sample ID:	D3413-08 RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006639.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	11		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.7		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPBI36-GW-301 RE	SDG No.:	D3413
Lab Sample ID:	D3413-08 RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006639.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.3	*	70 - 120		123%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	52.1		85 - 120		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		75 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	409461	7.57				
540-36-3	1,4-Difluorobenzene	867199	8.49				
3114-55-4	Chlorobenzene-d5	806615	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	363919	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-301 RE	SDG No.:	D3413
Lab Sample ID:	D3413-08 RE	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006639.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-321	SDG No.:	D3413
Lab Sample ID:	D3413-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006640.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	110		0.5	2.5	5	ug/L
75-15-0	Carbou Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	11		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.75	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-321	SDG No.:	D3413
Lab Sample ID:	D3413-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006640.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.4	*	70 - 120		121%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		85 - 115		105%	SPK: 50
2037-26-5	Toluene-d8	52.9		85 - 120		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		75 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	409798	7.57				
540-36-3	1,4-Difluorobenzene	842838	8.49				
3114-55-4	Chlorobenzene-d5	795012	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	351518	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-321	SDG No.:	D3413
Lab Sample ID:	D3413-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006640.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-341	SDG No.:	D3413
Lab Sample ID:	D3413-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006641.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	6.2		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.94	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-341	SDG No.:	D3413
Lab Sample ID:	D3413-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006641.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.5	*	70 - 120		123%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 120		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	394433	7.57				
540-36-3	1,4-Difluorobenzene	833042	8.49				
3114-55-4	Chlorobenzene-d5	771800	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	360096	13.24				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-341	SDG No.:	D3413
Lab Sample ID:	D3413-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level:	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006641.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
	unknown1.67	16	J			1.67	ug/L

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-361	SDG No.:	D3413
Lab Sample ID:	D3413-11	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006642.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	4.9	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.4		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-361	SDG No.:	D3413
Lab Sample ID:	D3413-11	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006642.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.8	*	70 - 120		124%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.9		85 - 120		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		75 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	385432	7.57				
540-36-3	1,4-Difluorobenzene	835673	8.49				
3114-55-4	Chlorobenzene-d5	774447	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	342259	13.24				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/16/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB136-GW-361	SDG No.:	D3413
Lab Sample ID:	D3413-11	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006642.D	1		07/20/12	VR072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
	unknown1.67	10	J			1.67	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-381	SDG No.:	D3470
Lab Sample ID:	D3470-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000412.D	1		07/24/12	VN072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.47	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	35		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.56	J	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.1		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.77	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-381	SDG No.:	D3470
Lab Sample ID:	D3470-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000412.D	1		07/24/12	VN072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.4		70 - 120		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		85 - 115		96%	SPK: 50
2037-26-5	Toluene-d8	48.8		85 - 120		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		75 - 120		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	822610	7.88				
540-36-3	1,4-Difluorobenzene	1220330	8.8				
3114-55-4	Chlorobenzene-d5	1069730	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	551698	13.57				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-381	SDG No.:	D3470
Lab Sample ID:	D3470-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000412.D	1		07/24/12	VN072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
000115-07-1	Propene	8.1	J			1.81	ug/L
75-65-0	Tert butyl alcohol	59	J			5.11	ug/L
91-20-3	Naphthalene	0.58	J			15.4	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-401	SDG No.:	D3470
Lab Sample ID:	D3470-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000380.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.48	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	4.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.41	J	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-401	SDG No.:	D3470
Lab Sample ID:	D3470-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000380.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.5		70 - 120		87%	SPK: 50
1868-53-7	Dibromofluoromethane	45.2		85 - 115		91%	SPK: 50
2037-26-5	Toluene-d8	46.1		85 - 120		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		75 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1002280	7.87				
540-36-3	1,4-Difluorobenzene	1450810	8.79				
3114-55-4	Chlorobenzene-d5	1283100	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	653784	13.57				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-401	SDG No.:	D3470
Lab Sample ID:	D3470-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000380.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-421	SDG No.:	D3470
Lab Sample ID:	D3470-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000381.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.44	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	5.6		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.8		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-421	SDG No.:	D3470
Lab Sample ID:	D3470-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000381.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.2		70 - 120		88%	SPK: 50
1868-53-7	Dibromofluoromethane	45.2		85 - 115		90%	SPK: 50
2037-26-5	Toluene-d8	45.7		85 - 120		91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44		75 - 120		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	968488	7.87				
540-36-3	1,4-Difluorobenzene	1429680	8.79				
3114-55-4	Chlorobenzene-d5	1262220	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	638220	13.57				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-441	SDG No.:	D3470
Lab Sample ID:	D3470-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000382.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.42	J	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.53	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	1.8		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	5.7		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.69	J	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	15		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-441	SDG No.:	D3470
Lab Sample ID:	D3470-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000382.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	2.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.6		70 - 120		89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		85 - 115		91%	SPK: 50
2037-26-5	Toluene-d8	46.2		85 - 120		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45		75 - 120		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	973502	7.87				
540-36-3	1,4-Difluorobenzene	1424880	8.79				
3114-55-4	Chlorobenzene-d5	1253980	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	647037	13.57				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-461	SDG No.:	D3470
Lab Sample ID:	D3470-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034318.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-461	SDG No.:	D3470
Lab Sample ID:	D3470-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034318.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	36.2		55 - 158		72%	SPK: 50
1868-53-7	Dibromofluoromethane	43.2		53 - 156		86%	SPK: 50
2037-26-5	Toluene-d8	46		85 - 115		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		85 - 120		86%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	404906	4.34				
540-36-3	1,4-Difluorobenzene	763880	5.08				
3114-55-4	Chlorobenzene-d5	683738	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	294400	12.21				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-461	SDG No.:	D3470
Lab Sample ID:	D3470-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034318.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-481	SDG No.:	D3470
Lab Sample ID:	D3470-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034319.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.45	U	0.64	2.45	4.9	ug/Kg
74-87-3	Chloromethane	2.45	U	0.85	2.45	4.9	ug/Kg
75-01-4	Vinyl Chloride	2.45	U	1.2	2.45	4.9	ug/Kg
74-83-9	Bromomethane	2.45	U	2.4	2.45	4.9	ug/Kg
75-00-3	Chloroethane	2.45	U	1.4	2.45	4.9	ug/Kg
75-69-4	Trichlorofluoromethane	2.45	U	1.3	2.45	4.9	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.45	U	1.3	2.45	4.9	ug/Kg
75-35-4	1,1-Dichloroethene	2.45	U	1.5	2.45	4.9	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.45	U	1	2.45	4.9	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.45	U	0.95	2.45	4.9	ug/Kg
79-20-9	Methyl Acetate	2.45	U	1.5	2.45	4.9	ug/Kg
75-09-2	Methylene Chloride	2.45	U	1.4	2.45	4.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.45	U	0.68	2.45	4.9	ug/Kg
75-34-3	1,1-Dichloroethane	2.45	U	0.93	2.45	4.9	ug/Kg
110-82-7	Cyclohexane	2.45	U	1	2.45	4.9	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.45	U	0.98	2.45	4.9	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.45	U	0.88	2.45	4.9	ug/Kg
74-97-5	Bromochloromethane	2.45	U	0.78	2.45	4.9	ug/Kg
67-66-3	Chloroform	2.45	U	0.73	2.45	4.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.45	U	0.87	2.45	4.9	ug/Kg
108-87-2	Methylcyclohexane	2.45	U	1	2.45	4.9	ug/Kg
71-43-2	Benzene	2.45	U	0.38	2.45	4.9	ug/Kg
107-06-2	1,2-Dichloroethane	2.45	U	0.63	2.45	4.9	ug/Kg
79-01-6	Trichloroethene	2.45	U	0.85	2.45	4.9	ug/Kg
78-87-5	1,2-Dichloropropane	2.45	U	0.26	2.45	4.9	ug/Kg
75-27-4	Bromodichloromethane	2.45	U	0.61	2.45	4.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.45	U	0.63	2.45	4.9	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.45	U	0.78	2.45	4.9	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-481	SDG No.:	D3470
Lab Sample ID:	D3470-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034319.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.45	U	0.71	2.45	4.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.45	U	0.89	2.45	4.9	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.45	U	0.53	2.45	4.9	ug/Kg
106-93-4	1,2-Dibromoethane	2.45	U	0.63	2.45	4.9	ug/Kg
127-18-4	Tetrachloroethene	2.45	U	1	2.45	4.9	ug/Kg
108-90-7	Chlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
100-41-4	Ethyl Benzene	2.45	U	0.61	2.45	4.9	ug/Kg
179601-23-1	m/p-Xylenes	4.95	U	0.71	4.95	9.9	ug/Kg
95-47-6	o-Xylene	2.45	U	0.67	2.45	4.9	ug/Kg
100-42-5	Styrene	2.45	U	0.44	2.45	4.9	ug/Kg
75-25-2	Bromoform	2.45	U	0.73	2.45	4.9	ug/Kg
98-82-8	Isopropylbenzene	2.45	U	0.47	2.45	4.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.45	U	0.45	2.45	4.9	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.45	U	0.37	2.45	4.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.45	U	0.41	2.45	4.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.45	U	0.61	2.45	4.9	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.45	U	0.86	2.45	4.9	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.45	U	0.69	2.45	4.9	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
123-91-1	1,4-Dioxane	49.5	U	49	49.5	99	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	37.2		55 - 158		74%	SPK: 50
1868-53-7	Dibromofluoromethane	43.3		53 - 156		87%	SPK: 50
2037-26-5	Toluene-d8	45.8		85 - 115		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		85 - 120		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	397801	4.34				
540-36-3	1,4-Difluorobenzene	770644	5.08				
3114-55-4	Chlorobenzene-d5	674775	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	286713	12.21				



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/18/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-481	SDG No.:	D3470
Lab Sample ID:	D3470-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034319.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-501	SDG No.:	D3470
Lab Sample ID:	D3470-08	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034320.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-501	SDG No.:	D3470
Lab Sample ID:	D3470-08	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034320.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	39.3		55 - 158		79%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		53 - 156		97%	SPK: 50
2037-26-5	Toluene-d8	50.4		85 - 115		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		85 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	397886	4.35				
540-36-3	1,4-Difluorobenzene	736403	5.08				
3114-55-4	Chlorobenzene-d5	660813	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	277522	12.22				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-501	SDG No.:	D3470
Lab Sample ID:	D3470-08	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034320.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-521	SDG No.:	D3470
Lab Sample ID:	D3470-09	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034321.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	12.5	U	3.2	12.5	25	ug/Kg
74-87-3	Chloromethane	12.5	U	4.3	12.5	25	ug/Kg
75-01-4	Vinyl Chloride	12.5	U	6.2	12.5	25	ug/Kg
74-83-9	Bromomethane	12.5	U	12	12.5	25	ug/Kg
75-00-3	Chloroethane	12.5	U	7	12.5	25	ug/Kg
75-69-4	Trichlorofluoromethane	12.5	U	6.6	12.5	25	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	12.5	U	6.6	12.5	25	ug/Kg
75-35-4	1,1-Dichloroethene	12.5	U	7.4	12.5	25	ug/Kg
67-64-1	Acetone	60	U	15	60	120	ug/Kg
75-15-0	Carbon Disulfide	12.5	U	5.3	12.5	25	ug/Kg
1634-04-4	Methyl tert-butyl Ether	12.5	U	4.8	12.5	25	ug/Kg
79-20-9	Methyl Acetate	12.5	U	7.6	12.5	25	ug/Kg
75-09-2	Methylene Chloride	12.5	U	7.1	12.5	25	ug/Kg
156-60-5	trans-1,2-Dichloroethene	12.5	U	3.4	12.5	25	ug/Kg
75-34-3	1,1-Dichloroethane	12.5	U	4.7	12.5	25	ug/Kg
110-82-7	Cyclohexane	12.5	U	5	12.5	25	ug/Kg
78-93-3	2-Butanone	60	U	16	60	120	ug/Kg
56-23-5	Carbon Tetrachloride	12.5	U	5	12.5	25	ug/Kg
156-59-2	cis-1,2-Dichloroethene	12.5	U	4.4	12.5	25	ug/Kg
74-97-5	Bromochloromethane	12.5	U	4	12.5	25	ug/Kg
67-66-3	Chloroform	12.5	U	3.7	12.5	25	ug/Kg
71-55-6	1,1,1-Trichloroethane	12.5	U	4.4	12.5	25	ug/Kg
108-87-2	Methylcyclohexane	12.5	U	5.3	12.5	25	ug/Kg
71-43-2	Benzene	12.5	U	1.9	12.5	25	ug/Kg
107-06-2	1,2-Dichloroethane	12.5	U	3.2	12.5	25	ug/Kg
79-01-6	Trichloroethene	12.5	U	4.3	12.5	25	ug/Kg
78-87-5	1,2-Dichloropropane	12.5	U	1.3	12.5	25	ug/Kg
75-27-4	Bromodichloromethane	12.5	U	3.1	12.5	25	ug/Kg
108-10-1	4-Methyl-2-Pentanone	60	U	15	60	120	ug/Kg
108-88-3	Toluene	12.5	U	3.2	12.5	25	ug/Kg
10061-02-6	t-1,3-Dichloropropene	12.5	U	4	12.5	25	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-521	SDG No.:	D3470
Lab Sample ID:	D3470-09	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034321.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	12.5	U	3.6	12.5	25	ug/Kg
79-00-5	1,1,2-Trichloroethane	12.5	U	4.5	12.5	25	ug/Kg
591-78-6	2-Hexanone	60	U	20	60	120	ug/Kg
124-48-1	Dibromochloromethane	12.5	U	2.7	12.5	25	ug/Kg
106-93-4	1,2-Dibromoethane	12.5	U	3.2	12.5	25	ug/Kg
127-18-4	Tetrachloroethene	12.5	U	5	12.5	25	ug/Kg
108-90-7	Chlorobenzene	12.5	U	2.5	12.5	25	ug/Kg
100-41-4	Ethyl Benzene	12.5	U	3.1	12.5	25	ug/Kg
179601-23-1	m/p-Xylenes	25	U	3.6	25	50	ug/Kg
95-47-6	o-Xylene	12.5	U	3.4	12.5	25	ug/Kg
100-42-5	Styrene	12.5	U	2.2	12.5	25	ug/Kg
75-25-2	Bromoform	12.5	U	3.7	12.5	25	ug/Kg
98-82-8	Isopropylbenzene	12.5	U	2.4	12.5	25	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	12.5	U	2.3	12.5	25	ug/Kg
541-73-1	1,3-Dichlorobenzene	12.5	U	1.8	12.5	25	ug/Kg
106-46-7	1,4-Dichlorobenzene	12.5	U	2	12.5	25	ug/Kg
95-50-1	1,2-Dichlorobenzene	12.5	U	3.1	12.5	25	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12.5	U	4.4	12.5	25	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	12.5	U	3.5	12.5	25	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12.5	U	2.5	12.5	25	ug/Kg
123-91-1	1,4-Dioxane	250	U	250	250	500	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.3		55 - 158		83%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		53 - 156		96%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 115		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		85 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	379648	4.34				
540-36-3	1,4-Difluorobenzene	728739	5.09				
3114-55-4	Chlorobenzene-d5	674775	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	293465	12.21				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-521	SDG No.:	D3470
Lab Sample ID:	D3470-09	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034321.D	1		07/23/12	VF072312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-541	SDG No.:	D3470
Lab Sample ID:	D3470-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RX1-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000383.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.44	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.7		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	1.1		0.47	0.5	1	ug/L
67-64-1	Acetone	4.1	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.71	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	13		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-541	SDG No.:	D3470
Lab Sample ID:	D3470-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000383.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	16		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.4		70 - 120		89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		85 - 115		92%	SPK: 50
2037-26-5	Toluene-d8	46		85 - 120		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		75 - 120		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	967168	7.87				
540-36-3	1,4-Difluorobenzene	1428050	8.79				
3114-55-4	Chlorobenzene-d5	1265850	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	658231	13.57				



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/19/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB136-GW-541	SDG No.:	D3470
Lab Sample ID:	D3470-10	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000383.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/20/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-561	SDG No.:	D3507
Lab Sample ID:	D3507-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034378.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.3	J	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/20/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-561	SDG No.:	D3507
Lab Sample ID:	D3507-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034378.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41		55 - 158		82%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		53 - 156		95%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 115		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46		85 - 120		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	318318	4.37				
540-36-3	1,4-Difluorobenzene	548176	5.11				
3114-55-4	Chlorobenzene-d5	483434	9.31				
3855-82-1	1,4-Dichlorobenzene-d4	229774	12.23				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/20/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-561	SDG No.:	D3507
Lab Sample ID:	D3507-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034378.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
000112-40-3	Dodecane	5.8	J			13.42	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-581	SDG No.:	D3507
Lab Sample ID:	D3507-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006675.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	9		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	2.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-581	SDG No.:	D3507
Lab Sample ID:	D3507-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006675.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	1.5		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.8		70 - 120		96%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		85 - 115		93%	SPK: 50
2037-26-5	Toluene-d8	49.3		85 - 120		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		75 - 120		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	468383	7.57				
540-36-3	1,4-Difluorobenzene	959986	8.5				
3114-55-4	Chlorobenzene-d5	860647	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	400458	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-581	SDG No.:	D3507
Lab Sample ID:	D3507-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006675.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-601	SDG No.:	D3507
Lab Sample ID:	D3507-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034379.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	1.9	J	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-601	SDG No.:	D3507
Lab Sample ID:	D3507-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034379.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40		55 - 158		80%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		53 - 156		96%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 115		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 120		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	312046	4.36				
540-36-3	1,4-Difluorobenzene	526940	5.11				
3114-55-4	Chlorobenzene-d5	477904	9.31				
3855-82-1	1,4-Dichlorobenzene-d4	212217	12.23				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-601	SDG No.:	D3507
Lab Sample ID:	D3507-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034379.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-621	SDG No.:	D3507
Lab Sample ID:	D3507-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034381.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.6	J	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-621	SDG No.:	D3507
Lab Sample ID:	D3507-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034381.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
I7060-07-0	1,2-Dichloroethane-d4	37.8		55 - 158		76%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		53 - 156		93%	SPK: 50
2037-26-5	Toluene-d8	47		85 - 115		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	45		85 - 120		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	320451	4.37				
540-36-3	1,4-Difluorobenzene	544133	5.11				
3114-55-4	Chlorobenzene-d5	500755	9.31				
3855-82-1	1,4-Dichlorobenzene-d4	229384	12.23				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-GW-621	SDG No.:	D3507
Lab Sample ID:	D3507-07	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034381.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-641	SDG No.:	D3596
Lab Sample ID:	D3596-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034515.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	12.5	U	3.2	12.5	25	ug/Kg
74-87-3	Chloromethane	12.5	U	4.3	12.5	25	ug/Kg
75-01-4	Vinyl Chloride	12.5	U	6.2	12.5	25	ug/Kg
74-83-9	Bromomethane	12.5	U	12	12.5	25	ug/Kg
75-00-3	Chloroethane	12.5	U	7	12.5	25	ug/Kg
75-69-4	Trichlorofluoromethane	12.5	U	6.6	12.5	25	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	12.5	U	6.6	12.5	25	ug/Kg
75-35-4	1,1-Dichloroethene	12.5	U	7.4	12.5	25	ug/Kg
67-64-1	Acetone	60	U	15	60	120	ug/Kg
75-15-0	Carbon Disulfide	12.5	U	5.3	12.5	25	ug/Kg
1634-04-4	Methyl tert-butyl Ether	12.5	U	4.8	12.5	25	ug/Kg
79-20-9	Methyl Acetate	12.5	U	7.6	12.5	25	ug/Kg
75-09-2	Methylene Chloride	12.5	U	7.1	12.5	25	ug/Kg
156-60-5	trans-1,2-Dichloroethene	12.5	U	3.4	12.5	25	ug/Kg
75-34-3	1,1-Dichloroethane	12.5	U	4.7	12.5	25	ug/Kg
110-82-7	Cyclohexane	12.5	U	5	12.5	25	ug/Kg
78-93-3	2-Butanone	60	U	16	60	120	ug/Kg
56-23-5	Carbon Tetrachloride	12.5	U	5	12.5	25	ug/Kg
156-59-2	cis-1,2-Dichloroethene	12.5	U	4.4	12.5	25	ug/Kg
74-97-5	Bromochloromethane	12.5	U	4	12.5	25	ug/Kg
67-66-3	Chloroform	12.5	U	3.7	12.5	25	ug/Kg
71-55-6	1,1,1-Trichloroethane	12.5	U	4.4	12.5	25	ug/Kg
108-87-2	Methylcyclohexane	12.5	U	5.3	12.5	25	ug/Kg
71-43-2	Benzene	12.5	U	1.9	12.5	25	ug/Kg
107-06-2	1,2-Dichloroethane	12.5	U	3.2	12.5	25	ug/Kg
79-01-6	Trichloroethene	12.5	U	4.3	12.5	25	ug/Kg
78-87-5	1,2-Dichloropropane	12.5	U	1.3	12.5	25	ug/Kg
75-27-4	Bromodichloromethane	12.5	U	3.1	12.5	25	ug/Kg
108-10-1	4-Methyl-2-Pentanone	60	U	15	60	120	ug/Kg
108-88-3	Toluene	12.5	U	3.2	12.5	25	ug/Kg
10061-02-6	t-1,3-Dichloropropene	12.5	U	4	12.5	25	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-641	SDG No.:	D3596
Lab Sample ID:	D3596-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034515.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	12.5	U	3.6	12.5	25	ug/Kg
79-00-5	1,1,2-Trichloroethane	12.5	U	4.5	12.5	25	ug/Kg
591-78-6	2-Hexanone	60	U	20	60	120	ug/Kg
124-48-1	Dibromochloromethane	12.5	U	2.7	12.5	25	ug/Kg
106-93-4	1,2-Dibromoethane	12.5	U	3.2	12.5	25	ug/Kg
127-18-4	Tetrachloroethene	12.5	U	5	12.5	25	ug/Kg
108-90-7	Chlorobenzene	12.5	U	2.5	12.5	25	ug/Kg
100-41-4	Ethyl Benzene	12.5	U	3.1	12.5	25	ug/Kg
179601-23-1	m/p-Xylenes	25	U	3.6	25	50	ug/Kg
95-47-6	o-Xylene	12.5	U	3.4	12.5	25	ug/Kg
100-42-5	Styrene	12.5	U	2.2	12.5	25	ug/Kg
75-25-2	Bromoform	12.5	U	3.7	12.5	25	ug/Kg
98-82-8	Isopropylbenzene	12.5	U	2.4	12.5	25	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	12.5	U	2.3	12.5	25	ug/Kg
541-73-1	1,3-Dichlorobenzene	12.5	U	1.8	12.5	25	ug/Kg
106-46-7	1,4-Dichlorobenzene	12.5	U	2	12.5	25	ug/Kg
95-50-1	1,2-Dichlorobenzene	12.5	U	3.1	12.5	25	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12.5	U	4.4	12.5	25	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	12.5	U	3.5	12.5	25	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12.5	U	2.5	12.5	25	ug/Kg
123-91-1	1,4-Dioxane	250	U	250	250	500	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.4		55 - 158		97%	SPK: 50
1868-53-7	Dibromofluoromethane	52		53 - 156		104%	SPK: 50
2037-26-5	Toluene-d8	51.4		85 - 115		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		85 - 120		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	319658	4.39				
540-36-3	1,4-Difluorobenzene	629180	5.13				
3114-55-4	Chlorobenzene-d5	597557	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	262815	12.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-641	SDG No.:	D3596
Lab Sample ID:	D3596-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034515.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-661	SDG No.:	D3596
Lab Sample ID:	D3596-03	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034516.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-661	SDG No.:	D3596
Lab Sample ID:	D3596-03	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034516.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		55 - 158		87%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		53 - 156		94%	SPK: 50
2037-26-5	Toluene-d8	49.3		85 - 115		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 120		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	317093	4.39				
540-36-3	1,4-Difluorobenzene	624858	5.13				
3114-55-4	Chlorobenzene-d5	556989	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	237915	12.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-661	SDG No.:	D3596
Lab Sample ID:	D3596-03	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034516.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-681	SDG No.:	D3596
Lab Sample ID:	D3596-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID: 0.18	Level:	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034517.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-681	SDG No.:	D3596
Lab Sample ID:	D3596-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034517.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		55 - 158		85%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		53 - 156		98%	SPK: 50
2037-26-5	Toluene-d8	52		85 - 115		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51		85 - 120		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	310738	4.39				
540-36-3	1,4-Difluorobenzene	598348	5.13				
3114-55-4	Chlorobenzene-d5	533882	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	223571	12.24				

**Report of Analysis**

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-681	SDG No.:	D3596
Lab Sample ID:	D3596-04	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034517.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-701	SDG No.:	D3596
Lab Sample ID:	D3596-05	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034518.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-701	SDG No.:	D3596
Lab Sample ID:	D3596-05	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034518.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.8		55 - 158		84%	SPK: 50
1868-53-7	Dibromofluoromethane	47		53 - 156		94%	SPK: 50
2037-26-5	Toluene-d8	50.1		85 - 115		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 120		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	304942	4.39				
540-36-3	1,4-Difluorobenzene	588665	5.13				
3114-55-4	Chlorobenzene-d5	543320	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	233117	12.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-701	SDG No.:	D3596
Lab Sample ID:	D3596-05	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034518.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/25/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-741	SDG No.:	D3596
Lab Sample ID:	D3596-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034519.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.65	2.5	5	ug/Kg
74-87-3	Chloromethane	2.5	U	0.86	2.5	5	ug/Kg
75-01-4	Vinyl Chloride	2.5	U	1.2	2.5	5	ug/Kg
74-83-9	Bromomethane	2.5	U	2.4	2.5	5	ug/Kg
75-00-3	Chloroethane	2.5	U	1.4	2.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	2.5	U	1.3	2.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	1.3	2.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	2.5	U	1.5	2.5	5	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.5	U	1.1	2.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
79-20-9	Methyl Acetate	2.5	U	1.5	2.5	5	ug/Kg
75-09-2	Methylene Chloride	2.5	U	1.4	2.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.69	2.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	2.5	U	0.94	2.5	5	ug/Kg
110-82-7	Cyclohexane	2.5	U	1	2.5	5	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.5	U	0.99	2.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.89	2.5	5	ug/Kg
74-97-5	Bromochloromethane	2.5	U	0.79	2.5	5	ug/Kg
67-66-3	Chloroform	2.5	U	0.74	2.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.5	U	0.88	2.5	5	ug/Kg
108-87-2	Methylcyclohexane	2.5	U	1.1	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	2.5	U	0.64	2.5	5	ug/Kg
79-01-6	Trichloroethene	2.5	U	0.86	2.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	2.5	U	0.26	2.5	5	ug/Kg
75-27-4	Bromodichloromethane	2.5	U	0.62	2.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.79	2.5	5	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/25/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-741	SDG No.:	D3596
Lab Sample ID:	D3596-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034519.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.72	2.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.5	U	0.9	2.5	5	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.5	U	0.54	2.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	2.5	U	0.64	2.5	5	ug/Kg
127-18-4	Tetrachloroethene	2.5	U	1	2.5	5	ug/Kg
108-90-7	Chlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
100-42-5	Styrene	2.5	U	0.45	2.5	5	ug/Kg
75-25-2	Bromoform	2.5	U	0.74	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.46	2.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.5	U	0.37	2.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.5	U	0.41	2.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.5	U	0.62	2.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.87	2.5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.7	2.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.5	2.5	5	ug/Kg
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	38		55 - 158		76%	SPK: 50
1868-53-7	Dibromofluoromethane	45.3		53 - 156		91%	SPK: 50
2037-26-5	Toluene-d8	45.3		85 - 115		91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		85 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	315929	4.39				
540-36-3	1,4-Difluorobenzene	621158	5.13				
3114-55-4	Chlorobenzene-d5	547344	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	233055	12.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/25/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-GW-741	SDG No.:	D3596
Lab Sample ID:	D3596-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034519.D	1		07/30/12	VF073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VBP136-GW-802	SDG No.:	D3634
Lab Sample ID:	D3634-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1.04 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034631.D	1		08/02/12	VF080212

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	12	U	3.1	12	24	ug/Kg
74-87-3	Chloromethane	12	U	4.1	12	24	ug/Kg
75-01-4	Vinyl Chloride	12	U	5.9	12	24	ug/Kg
74-83-9	Bromomethane	12	U	12	12	24	ug/Kg
75-00-3	Chloroethane	12	U	6.7	12	24	ug/Kg
75-69-4	Trichlorofluoromethane	12	U	6.3	12	24	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	12	U	6.4	12	24	ug/Kg
75-35-4	1,1-Dichloroethene	12	U	7.1	12	24	ug/Kg
67-64-1	Acetone	78	J	15	60	120	ug/Kg
75-15-0	Carbon Disulfide	12	U	5.1	12	24	ug/Kg
1634-04-4	Methyl tert-butyl Ether	12	U	4.6	12	24	ug/Kg
79-20-9	Methyl Acetate	12	U	7.3	12	24	ug/Kg
75-09-2	Methylene Chloride	12	U	6.8	12	24	ug/Kg
156-60-5	trans-1,2-Dichloroethene	12	U	3.3	12	24	ug/Kg
75-34-3	1,1-Dichloroethane	12	U	4.5	12	24	ug/Kg
110-82-7	Cyclohexane	12	U	4.9	12	24	ug/Kg
78-93-3	2-Butanone	60	U	15	60	120	ug/Kg
56-23-5	Carbon Tetrachloride	12	U	4.8	12	24	ug/Kg
156-59-2	cis-1,2-Dichloroethene	12	U	4.3	12	24	ug/Kg
74-97-5	Bromochloromethane	12	U	3.8	12	24	ug/Kg
67-66-3	Chloroform	12	U	3.6	12	24	ug/Kg
71-55-6	1,1,1-Trichloroethane	12	U	4.2	12	24	ug/Kg
108-87-2	Methylcyclohexane	12	U	5.1	12	24	ug/Kg
71-43-2	Benzene	12	U	1.8	12	24	ug/Kg
107-06-2	1,2-Dichloroethane	12	U	3.1	12	24	ug/Kg
79-01-6	Trichloroethene	12	U	4.1	12	24	ug/Kg
78-87-5	1,2-Dichloropropane	12	U	1.2	12	24	ug/Kg
75-27-4	Bromodichloromethane	12	U	3	12	24	ug/Kg
108-10-1	4-Methyl-2-Pentanone	60	U	14	60	120	ug/Kg
108-88-3	Toluene	12	U	3.1	12	24	ug/Kg
10061-02-6	t-1,3-Dichloropropene	12	U	3.8	12	24	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VBPI36-GW-802	SDG No.:	D3634
Lab Sample ID:	D3634-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1.04 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034631.D	1		08/02/12	VF080212

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	12	U	3.5	12	24	ug/Kg
79-00-5	1,1,2-Trichloroethane	12	U	4.3	12	24	ug/Kg
591-78-6	2-Hexanone	60	U	19	60	120	ug/Kg
124-48-1	Dibromochloromethane	12	U	2.6	12	24	ug/Kg
106-93-4	1,2-Dibromoethane	12	U	3.1	12	24	ug/Kg
127-18-4	Tetrachloroethene	12	U	4.9	12	24	ug/Kg
108-90-7	Chlorobenzene	12	U	2.4	12	24	ug/Kg
100-41-4	Ethyl Benzene	12	U	3	12	24	ug/Kg
179601-23-1	m/p-Xylenes	24	U	3.5	24	48	ug/Kg
95-47-6	o-Xylene	12	U	3.3	12	24	ug/Kg
100-42-5	Styrene	12	U	2.2	12	24	ug/Kg
75-25-2	Bromoform	12	U	3.6	12	24	ug/Kg
98-82-8	Isopropylbenzene	12	U	2.3	12	24	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	12	U	2.2	12	24	ug/Kg
541-73-1	1,3-Dichlorobenzene	12	U	1.8	12	24	ug/Kg
106-46-7	1,4-Dichlorobenzene	12	U	2	12	24	ug/Kg
95-50-1	1,2-Dichlorobenzene	12	U	3	12	24	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	4.2	12	24	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	12	U	3.4	12	24	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12	U	2.4	12	24	ug/Kg
123-91-1	1,4-Dioxane	240	U	240	240	480	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.9		55 - 158		86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		53 - 156		95%	SPK: 50
2037-26-5	Toluene-d8	46.9		85 - 115		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		85 - 120		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	259947	4.4				
540-36-3	1,4-Difluorobenzene	509107	5.14				
3114-55-4	Chlorobenzene-d5	464385	9.34				
3855-82-1	1,4-Dichlorobenzene-d4	216310	12.25				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VBP136-GW-802	SDG No.:	D3634
Lab Sample ID:	D3634-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	1.04 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034631.D	1		08/02/12	VF080212

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-SW-072312	SDG No.:	D3507
Lab Sample ID:	D3507-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006672.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	2.4		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-SW-072312	SDG No.:	D3507
Lab Sample ID:	D3507-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RX1-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006672.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.8		70 - 120		96%	SPK: 50
1868-53-7	Dibromofluoromethane	48		85 - 115		96%	SPK: 50
2037-26-5	Toluene-d8	49.4		85 - 120		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		75 - 120		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	512714	7.58				
540-36-3	1,4-Difluorobenzene	1038550	8.5				
3114-55-4	Chlorobenzene-d5	953852	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	438185	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-SW-072312	SDG No.:	D3507
Lab Sample ID:	D3507-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006672.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-DM-620	SDG No.:	D3507
Lab Sample ID:	D3507-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034380.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.45	U	0.64	2.45	4.9	ug/Kg
74-87-3	Chloromethane	2.45	U	0.85	2.45	4.9	ug/Kg
75-01-4	Vinyl Chloride	2.45	U	1.2	2.45	4.9	ug/Kg
74-83-9	Bromomethane	2.45	U	2.4	2.45	4.9	ug/Kg
75-00-3	Chloroethane	2.45	U	1.4	2.45	4.9	ug/Kg
75-69-4	Trichlorofluoromethane	2.45	U	1.3	2.45	4.9	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.45	U	1.3	2.45	4.9	ug/Kg
75-35-4	1,1-Dichloroethene	2.45	U	1.4	2.45	4.9	ug/Kg
67-64-1	Acetone	12.5	U	3	12.5	25	ug/Kg
75-15-0	Carbon Disulfide	2.45	U	1	2.45	4.9	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.45	U	0.95	2.45	4.9	ug/Kg
79-20-9	Methyl Acetate	2.45	U	1.5	2.45	4.9	ug/Kg
75-09-2	Methylene Chloride	2.8	J	1.4	2.45	4.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.45	U	0.68	2.45	4.9	ug/Kg
75-34-3	1,1-Dichloroethane	2.45	U	0.93	2.45	4.9	ug/Kg
110-82-7	Cyclohexane	2.45	U	1	2.45	4.9	ug/Kg
78-93-3	2-Butanone	12.5	U	3.1	12.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	2.45	U	0.98	2.45	4.9	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.45	U	0.88	2.45	4.9	ug/Kg
74-97-5	Bromochloromethane	2.45	U	0.78	2.45	4.9	ug/Kg
67-66-3	Chloroform	2.45	U	0.73	2.45	4.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.45	U	0.87	2.45	4.9	ug/Kg
108-87-2	Methylcyclohexane	2.45	U	1	2.45	4.9	ug/Kg
71-43-2	Benzene	2.45	U	0.37	2.45	4.9	ug/Kg
107-06-2	1,2-Dichloroethane	2.45	U	0.63	2.45	4.9	ug/Kg
79-01-6	Trichloroethene	2.45	U	0.85	2.45	4.9	ug/Kg
78-87-5	1,2-Dichloropropane	2.45	U	0.26	2.45	4.9	ug/Kg
75-27-4	Bromodichloromethane	2.45	U	0.61	2.45	4.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.9	12.5	25	ug/Kg
108-88-3	Toluene	2.45	U	0.63	2.45	4.9	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.45	U	0.78	2.45	4.9	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-DM-620	SDG No.:	D3507
Lab Sample ID:	D3507-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034380.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.45	U	0.71	2.45	4.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.45	U	0.89	2.45	4.9	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.9	12.5	25	ug/Kg
124-48-1	Dibromochloromethane	2.45	U	0.53	2.45	4.9	ug/Kg
106-93-4	1,2-Dibromoethane	2.45	U	0.63	2.45	4.9	ug/Kg
127-18-4	Tetrachloroethene	2.45	U	1	2.45	4.9	ug/Kg
108-90-7	Chlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
100-41-4	Ethyl Benzene	2.45	U	0.61	2.45	4.9	ug/Kg
179601-23-1	m/p-Xylenes	4.95	U	0.71	4.95	9.9	ug/Kg
95-47-6	o-Xylene	2.45	U	0.67	2.45	4.9	ug/Kg
100-42-5	Styrene	2.45	U	0.44	2.45	4.9	ug/Kg
75-25-2	Bromoform	2.45	U	0.73	2.45	4.9	ug/Kg
98-82-8	Isopropylbenzene	2.45	U	0.47	2.45	4.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.45	U	0.45	2.45	4.9	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.45	U	0.36	2.45	4.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.45	U	0.4	2.45	4.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.45	U	0.61	2.45	4.9	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.45	U	0.86	2.45	4.9	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.45	U	0.69	2.45	4.9	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.45	U	0.49	2.45	4.9	ug/Kg
123-91-1	1,4-Dioxane	49.5	U	49	49.5	99	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	39.4		55 - 158		79%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		53 - 156		96%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 115		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 120		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	312151	4.37				
540-36-3	1,4-Difluorobenzene	545640	5.11				
3114-55-4	Chlorobenzene-d5	480273	9.31				
3855-82-1	1,4-Dichlorobenzene-d4	219999	12.23				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/23/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB136-DM-620	SDG No.:	D3507
Lab Sample ID:	D3507-06	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF034380.D	1		07/24/12	VF072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/25/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB136-SB-761	SDG No.:	D3596
Lab Sample ID:	D3596-07	Matrix:	SOIL
		% Solid:	77.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	3100	1		48.849	125	250	mg/Kg	07/31/12	07/31/12	9060

Comments: _____

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N¹⁸⁹ = Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/10/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB-TB-071012	SDG No.:	D3367
Lab Sample ID:	D3367-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006524.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/10/12
Project:	Bethpage CTO-066	Date Received:	07/13/12
Client Sample ID:	BP-VPB-TB-071012	SDG No.:	D3367
Lab Sample ID:	D3367-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006524.D	1		07/17/12	VR071612

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.6		70 - 120		113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	51.7		85 - 120		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	542599	7.57				
540-36-3	1,4-Difluorobenzene	1089950	8.49				
3114-55-4	Chlorobenzene-d5	997204	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	452371	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB-TB-071312	SDG No.:	D3413
Lab Sample ID:	D3413-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006563.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/13/12
Project:	Bethpage CTO-066	Date Received:	07/17/12
Client Sample ID:	BP-VPB-TB-071312	SDG No.:	D3413
Lab Sample ID:	D3413-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006563.D	1		07/18/12	VR071812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromoethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		70 - 120		116%	SPK: 50
1868-53-7	Dibromofluoromethane	51		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.7		85 - 120		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		75 - 120		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	485730	7.57				
540-36-3	1,4-Difluorobenzene	1000600	8.49				
3114-55-4	Chlorobenzene-d5	909606	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	408785	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB-TB-071712	SDG No.:	D3470
Lab Sample ID:	D3470-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000377.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.46	J	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	J	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/12
Project:	Bethpage CTO-066	Date Received:	07/20/12
Client Sample ID:	BP-VPB-TB-071712	SDG No.:	D3470
Lab Sample ID:	D3470-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000377.D	1		07/21/12	VN072012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		70 - 120		85%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		85 - 115		91%	SPK: 50
2037-26-5	Toluene-d8	46		85 - 120		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		75 - 120		87%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1060470	7.87				
540-36-3	1,4-Difluorobenzene	1534340	8.79				
3114-55-4	Chlorobenzene-d5	1344460	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	673460	13.57				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/20/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB-TB-072012	SDG No.:	D3507
Lab Sample ID:	D3507-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006669.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/20/12
Project:	Bethpage CTO-066	Date Received:	07/23/12
Client Sample ID:	BP-VPB-TB-072012	SDG No.:	D3507
Lab Sample ID:	D3507-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006669.D	1		07/24/12	VR072412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		70 - 120		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		85 - 115		94%	SPK: 50
2037-26-5	Toluene-d8	48.6		85 - 120		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		75 - 120		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	572184	7.57				
540-36-3	1,4-Difluorobenzene	1131050	8.5				
3114-55-4	Chlorobenzene-d5	1022340	11.3				
3855-82-1	1,4-Dichlorobenzene-d4	462230	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB-TB-072412	SDG No.:	D3596
Lab Sample ID:	D3596-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006747.D	1		07/30/12	VR073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/12
Project:	Bethpage CTO-WE62	Date Received:	07/27/12
Client Sample ID:	BP-VPB-TB-072412	SDG No.:	D3596
Lab Sample ID:	D3596-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID: 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VR006747.D	1		07/30/12	VR073012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	10	U	10	10	20	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.4		70 - 120		109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	51.8		85 - 120		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		75 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1005980	7.58				
540-36-3	1,4-Difluorobenzene	1733430	8.5				
3114-55-4	Chlorobenzene-d5	1630290	11.31				
3855-82-1	1,4-Dichlorobenzene-d4	842202	13.24				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VPB-TB-072712	SDG No.:	D3634
Lab Sample ID:	D3634-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000666.D	1		08/01/12	VN080112

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.5	U	0.55	2.5	5	ug/L
74-87-3	Chloromethane	2.5	U	0.54	2.5	5	ug/L
75-01-4	Vinyl Chloride	2.5	U	0.34	2.5	5	ug/L
74-83-9	Bromomethane	2.5	U	0.62	2.5	5	ug/L
75-00-3	Chloroethane	2.5	U	0.66	2.5	5	ug/L
75-69-4	Trichlorofluoromethane	2.5	U	0.35	2.5	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.5	U	0.45	2.5	5	ug/L
75-35-4	1,1-Dichloroethene	2.5	U	0.47	2.5	5	ug/L
67-64-1	Acetone	12.5	U	2.8	12.5	25	ug/L
75-15-0	Carbon Disulfide	2.5	U	0.54	2.5	5	ug/L
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.35	2.5	5	ug/L
79-20-9	Methyl Acetate	2.5	U	0.83	2.5	5	ug/L
75-09-2	Methylene Chloride	2.5	U	0.41	2.5	5	ug/L
156-60-5	trans-1,2-Dichloroethene	2.5	U	0.41	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	2.5	U	0.36	2.5	5	ug/L
110-82-7	Cyclohexane	2.5	U	0.55	2.5	5	ug/L
78-93-3	2-Butanone	12.5	U	1.3	12.5	25	ug/L
56-23-5	Carbon Tetrachloride	2.5	U	0.62	2.5	5	ug/L
156-59-2	cis-1,2-Dichloroethene	2.5	U	0.35	2.5	5	ug/L
74-97-5	Bromochloromethane	2.5	U	2.2	2.5	5	ug/L
67-66-3	Chloroform	2.5	U	0.34	2.5	5	ug/L
71-55-6	1,1,1-Trichloroethane	2.5	U	0.4	2.5	5	ug/L
108-87-2	Methylcyclohexane	2.5	U	0.68	2.5	5	ug/L
71-43-2	Benzene	2.5	U	0.32	2.5	5	ug/L
107-06-2	1,2-Dichloroethane	2.5	U	0.48	2.5	5	ug/L
79-01-6	Trichloroethene	2.5	U	0.28	2.5	5	ug/L
78-87-5	1,2-Dichloropropane	2.5	U	0.46	2.5	5	ug/L
75-27-4	Bromodichloromethane	2.5	U	0.36	2.5	5	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	U	2.1	12.5	25	ug/L
108-88-3	Toluene	2.5	U	0.37	2.5	5	ug/L
10061-02-6	t-1,3-Dichloropropene	2.5	U	0.29	2.5	5	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VPB-TB-072712	SDG No.:	D3634
Lab Sample ID:	D3634-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000666.D	1		08/01/12	VN080112

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2.5	U	0.31	2.5	5	ug/L
79-00-5	1,1,2-Trichloroethane	2.5	U	0.38	2.5	5	ug/L
591-78-6	2-Hexanone	12.5	U	1.9	12.5	25	ug/L
124-48-1	Dibromochloromethane	2.5	U	0.52	2.5	5	ug/L
106-93-4	1,2-Dibromoethane	2.5	U	0.41	2.5	5	ug/L
127-18-4	Tetrachloroethene	2.5	U	0.27	2.5	5	ug/L
108-90-7	Chlorobenzene	2.5	U	0.49	2.5	5	ug/L
100-41-4	Ethyl Benzene	2.5	U	0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	5	U	0.95	5	10	ug/L
95-47-6	o-Xylene	2.5	U	0.43	2.5	5	ug/L
100-42-5	Styrene	2.5	U	0.36	2.5	5	ug/L
75-25-2	Bromoform	2.5	U	0.47	2.5	5	ug/L
98-82-8	Isopropylbenzene	2.5	U	0.45	2.5	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	0.31	2.5	5	ug/L
541-73-1	1,3-Dichlorobenzene	2.5	U	0.43	2.5	5	ug/L
106-46-7	1,4-Dichlorobenzene	2.5	U	0.32	2.5	5	ug/L
95-50-1	1,2-Dichlorobenzene	2.5	U	0.45	2.5	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U	0.46	2.5	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.5	U	0.62	2.5	5	ug/L
87-61-6	1,2,3-Trichlorobenzene	2.5	U	0.65	2.5	5	ug/L
123-91-1	1,4-Dioxane	50	U	50	50	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.2		70 - 120		92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		85 - 115		98%	SPK: 50
2037-26-5	Toluene-d8	48		85 - 120		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		75 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1021380	7.87				
540-36-3	1,4-Difluorobenzene	1556540	8.79				
3114-55-4	Chlorobenzene-d5	1366520	11.62				
3855-82-1	1,4-Dichlorobenzene-d4	682085	13.57				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/27/12
Project:	Bethpage CTO-WE62	Date Received:	08/01/12
Client Sample ID:	BP-VPB-TB-072712	SDG No.:	D3634
Lab Sample ID:	D3634-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN000666.D	1		08/01/12	VN080112

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution



Air Toxics

Client Sample ID: BP-VPB136-AIR-071912

Lab ID#: 1207393-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e072909	Date of Collection:	7/19/12 3:00:00 PM
Dil. Factor:	1.61	Date of Analysis:	7/29/12 06:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Carbon Tetrachloride	0.080	0.067 J	0.51	0.42 J
Trichloroethene	0.080	Not Detected	0.43	Not Detected
Bromodichloromethane	0.080	Not Detected	0.54	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Tetrachloroethene	0.080	Not Detected	0.55	Not Detected
Dibromochloromethane	0.080	Not Detected	0.68	Not Detected
1,2-Dibromoethane (EDB)	0.080	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
1,3-Dichlorobenzene	0.080	Not Detected	0.48	Not Detected
1,4-Dichlorobenzene	0.080	0.062 J	0.48	0.37 J
1,2-Dichlorobenzene	0.080	Not Detected	0.48	Not Detected
Freon 12	0.080	0.46	0.40	2.2
Freon 114	0.080	Not Detected	0.56	Not Detected
Freon 11	0.080	0.20	0.45	1.2
Freon 113	0.080	0.080	0.62	0.62
Bromoform	0.080	Not Detected	0.83	Not Detected
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Benzene	0.16	0.36	0.51	1.1
1,2-Dichloroethane	0.16	0.041 J	0.65	0.16 J
Toluene	0.16	3.7	0.61	14
Ethyl Benzene	0.16	0.30	0.70	1.3
m,p-Xylene	0.16	0.81	0.70	3.5
o-Xylene	0.16	0.19	0.70	0.84
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
Chloromethane	0.16	0.53	0.33	1.1
Bromomethane	0.80	0.27 J	3.1	1.0 J
Chloroethane	0.80	Not Detected	2.1	Not Detected
Hexane	0.16	0.67	0.57	2.4
2-Butanone (Methyl Ethyl Ketone)	0.80	1.3	2.4	3.9
Chloroform	0.16	Not Detected	0.79	Not Detected
Cyclohexane	0.16	0.16 J	0.55	0.54 J
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	0.072 J	0.58	0.26 J
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	0.86	0.66	3.5
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected



Air Toxics

Client Sample ID: BP-VPB136-AIR-071912

Lab ID#: 1207393-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e072909	Date of Collection:	7/19/12 3:00:00 PM
Dil. Factor:	1.61	Date of Analysis:	7/29/12 06:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.16	0.054 J	0.68	0.23 J
1,3,5-Trimethylbenzene	0.16	0.040 J	0.79	0.20 J
1,2,4-Trimethylbenzene	0.16	0.20	0.79	0.96
alpha-Chlorotoluene	0.16	0.050 J	0.83	0.26 J
2,2,4-Trimethylpentane	0.16	0.21	0.75	0.98
tert-Butyl alcohol	0.80	0.76 J	2.4	2.3 J
Methylene Chloride	0.80	0.42 J	2.8	1.5 J
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected
Ethanol	0.80	190 E	1.5	360 E
1,2,4-Trichlorobenzene	0.80	0.11 J	6.0	0.85 J

J = Estimated value.

E = Exceeds instrument calibration range.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Ethane, 1,1,1,2-tetrafluoro-	811-97-2	9.0%	6.7 NJ
Unknown	NA	NA	3.5 J
Butane	106-97-8	80%	12 NJ
Unknown	NA	NA	3.0 J
2-Propanone	67-64-1	80%	41 NJ
Carbon disulfide	75-15-0	83%	1.9 NJ
2-Propanol	67-63-0	86%	6.9 NJ
Cyclopropane, ethyl-	1191-96-4	59%	3.0 NJ
Unknown	NA	NA	3.2 J
Decane, 2,5,6-trimethyl-	62108-23-0	53%	3.8 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	105	80-120
1,2-Dichloroethane-d4	103	75-137
Toluene-d8	104	80-116



Air Toxics

Client Sample ID: BP-VPB136-AIR-071912 Lab Duplicate

Lab ID#: 1207393-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e072910	Date of Collection:	7/19/12 3:00:00 PM
Dil. Factor:	1.61	Date of Analysis:	7/29/12 07:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Carbon Tetrachloride	0.080	0.057 J	0.51	0.36 J
Trichloroethene	0.080	Not Detected	0.43	Not Detected
Bromodichloromethane	0.080	Not Detected	0.54	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Tetrachloroethene	0.080	Not Detected	0.55	Not Detected
Dibromochloromethane	0.080	Not Detected	0.68	Not Detected
1,2-Dibromoethane (EDB)	0.080	Not Detected	0.62	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
1,3-Dichlorobenzene	0.080	Not Detected	0.48	Not Detected
1,4-Dichlorobenzene	0.080	Not Detected	0.48	Not Detected
1,2-Dichlorobenzene	0.080	Not Detected	0.48	Not Detected
Freon 12	0.080	0.44	0.40	2.2
Freon 114	0.080	Not Detected	0.56	Not Detected
Freon 11	0.080	0.20	0.45	1.1
Freon 113	0.080	0.055 J	0.62	0.42 J
Bromoform	0.080	Not Detected	0.83	Not Detected
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Benzene	0.16	0.33	0.51	1.1
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	3.6	0.61	14
Ethyl Benzene	0.16	0.28	0.70	1.2
m,p-Xylene	0.16	0.84	0.70	3.6
o-Xylene	0.16	0.23	0.70	0.99
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
Chloromethane	0.16	0.52	0.33	1.1
Bromomethane	0.80	0.21 J	3.1	0.81 J
Chloroethane	0.80	Not Detected	2.1	Not Detected
Hexane	0.16	0.63	0.57	2.2
2-Butanone (Methyl Ethyl Ketone)	0.80	1.2	2.4	3.7
Chloroform	0.16	Not Detected	0.79	Not Detected
Cyclohexane	0.16	0.12 J	0.55	0.40 J
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	0.83	0.66	3.4
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected



Air Toxics

Client Sample ID: BP-VPB136-AIR-071912 Lab Duplicate

Lab ID#: 1207393-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e072910	Date of Collection: 7/19/12 3:00:00 PM
Dil. Factor:	1.61	Date of Analysis: 7/29/12 07:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.16	0.058 J	0.68	0.25 J
1,3,5-Trimethylbenzene	0.16	0.049 J	0.79	0.24 J
1,2,4-Trimethylbenzene	0.16	0.19	0.79	0.93
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
2,2,4-Trimethylpentane	0.16	0.23	0.75	1.1
tert-Butyl alcohol	0.80	0.68 J	2.4	2.0 J
Methylene Chloride	0.80	0.28 J	2.8	0.96 J
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected
Ethanol	0.80	240 E	1.5	460 E
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Ethane, 1,1,1,2-tetrafluoro-	811-97-2	50%	6.4 NJ
Unknown	NA	NA	3.5 J
Butane	106-97-8	86%	11 NJ
Unknown	NA	NA	3.0 J
2-Propanone	67-64-1	72%	39 NJ
Carbon disulfide	75-15-0	83%	2.0 NJ
2-Propanol	67-63-0	86%	6.6 NJ
Cyclopropane, ethyl-	1191-96-4	64%	3.1 NJ
Unknown	NA	NA	3.3 J
Decane, 2,5,6-trimethyl-	62108-23-0	50%	4.2 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	101	80-120
1,2-Dichloroethane-d4	100	75-137
Toluene-d8	101	80-116

Section 5
VPB 136 Chain of Custody Records



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

Nº 1123

PAGE 1 OF 1

V5567

PROJECT NO: 112602751 FACILITY: BETHPAGE 002 SAMPLERS (SIGNATURE): <i>SJ Conatic</i>		PROJECT MANAGER: D BRAYACK FIELD OPERATIONS LEADER: S CONT 1 CARRIER/WAYBILL NUMBER: FED EX # 8770 6393 5717		PHONE NUMBER: 757 461 3824 PHONE NUMBER: 412 551 2629 ADDRESS: 284 SHEFFIELD ST. CITY, STATE: MOUNTAINSIDE, NJ 07092		LABORATORY NAME AND CONTACT: CHEMTECH / HUMMELER	
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input checked="" type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		TOP DEPTH (FT): BOTTOM DEPTH (FT): MATRIX (GW, SO, SW, SD, OC, ETC.): COLLECTION METHOD: GRAB (G): COMP (G): NO. OF CONTAINERS:		CONTAINER TYPE: PLASTIC (P) or GLASS (G): PRESERVATIVE USED:		COMMENTS:	
DATE TIME: 7/10 1400 SAMPLE ID: BP-VPB-TB-071012 LOCATION ID: TB		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/13/12 9:40 DATE TIME: 7/13/12 9:40		DATE TIME: 7/13/12 9:40 DATE TIME: 7/13/12 9:40	
DATE TIME: 7/10 1530 SAMPLE ID: BP-VPB136-GW-061 LOCATION ID: VPB 136		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40	
DATE TIME: 7/10 0940 SAMPLE ID: BP-VPB136-GW-101 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/10 0940 DATE TIME: 7/12/12 1700		DATE TIME: 7/10 0940 DATE TIME: 7/12/12 1700	
DATE TIME: 7/11 1210 SAMPLE ID: BP-VPB136-GW-161 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/11 1210 DATE TIME: 7/12/12 1700		DATE TIME: 7/11 1210 DATE TIME: 7/12/12 1700	
DATE TIME: 7/11 1600 SAMPLE ID: BP-VPB136-GW-221 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/11 1600 DATE TIME: 7/12/12 1700		DATE TIME: 7/11 1600 DATE TIME: 7/12/12 1700	
DATE TIME: 7/12 1000 SAMPLE ID: BP-VPB136-GW-241 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12 1000 DATE TIME: 7/12/12 1700		DATE TIME: 7/12 1000 DATE TIME: 7/12/12 1700	
DATE TIME: 7/12 1200 SAMPLE ID: BP-VPB136-GW-261 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12 1200 DATE TIME: 7/12/12 1700		DATE TIME: 7/12 1200 DATE TIME: 7/12/12 1700	
DATE TIME: 7/12 1400 SAMPLE ID: BP-VPB136-GW-281 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12 1400 DATE TIME: 7/12/12 1700		DATE TIME: 7/12 1400 DATE TIME: 7/12/12 1700	
DATE TIME: 7/12 1400 SAMPLE ID: BP-VPB136-GW-281 LOCATION ID: "		DATE TIME: 7/12/12 1700 DATE TIME: 7/13/12 9:40		DATE TIME: 7/12 1400 DATE TIME: 7/12/12 1700		DATE TIME: 7/12 1400 DATE TIME: 7/12/12 1700	

D3413

NUMBER No 1209 | CHAIN OF CUSTODY | PAGE 1 OF 1

TETRA TECH NUS, INC.



PROJECT NO: 112902751		FACILITY: BETHPAGE 002		PROJECT MANAGER D. BRAYACK		PHONE NUMBER 757 461 3824		LABORATORY NAME AND CONTACT: CHEMTECH / HUMMELER	
SAMPLERS (SIGNATURE) SgGentz		FIELD OPERATIONS LEADER S CONT 1		FIELD OPERATIONS LEADER S CONT 1		PHONE NUMBER 412 551 2629		ADDRESS 284 SHEFFIELD ST	
STANDARD TAT <input type="checkbox"/>		CARRIER/WAYBILL NUMBER FED EX 8770 6393 5728		CARRIER/WAYBILL NUMBER FED EX 8770 6393 5728		CONTAINER TYPE PLASTIC (P) or GLASS (G) G		CITY, STATE MOUNTAINSIDE, NJ 07092	
RUSH TAT <input type="checkbox"/>		72 hr. FAX RESULTS		MATRIX (GW, SO, SW, SD, QC, ETC.)		PRESERVATIVE USED		COMMENTS	
72 hr. FAX RESULTS		72 hr. FAX RESULTS		TOP DEPTH (FT)		NO. OF CONTAINERS		TYPE OF ANALYSIS VOCs (40ml)	
DATE YEAR		SAMPLE ID		BOTTOM DEPTH (FT)		COLLECTION METHOD GRAB (G) COMP (C)		ARG FT	
7/13 0730		BP-VPB-TB-071312		TB		QC		2	
7/13 0940		BP-VPB136-GW-301		VPB 136		GW		2	
7/16 1120		BP-VPB136-GW-321		"		GW		2	
7/16 1215		BP-VPB136-GW-341		"		GW		2	
7/16 1500		BP-VPB136-GW-361		"		GW		2	
1. RELINQUISHED BY		DATE		TIME		1. RECEIVED BY		DATE	
SgGentz		7/16/12		17:00		FEDEX			
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY		DATE	
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY		DATE	
Fed Ex		7/17/12		9:50		Jan Curran		7/17/12	
COMMENTS		Temp: 44°C						TIME	
								9:50	

D3470



TETRA TECHNUS, INC.

CHAIN OF CUSTODY

NUMBER N^o 1210

PAGE 1 OF 1

PROJECT NO: 112502751		FACILITY: BETHPAGE 002		PROJECT MANAGER: D. BRAYACK		PHONE NUMBER: 757 461 3824		LABORATORY NAME AND CONTACT: CHEATECH/HUMMLER	
SAMPLERS (SIGNATURE): <i>SJ Contec</i>		FIELD OPERATIONS LEADER: S CONTI		FIELD OPERATIONS LEADER: S CONTI		PHONE NUMBER: 412 551 2629		ADDRESS: 284 SHEFFIELD ST	
STANDARD TAT <input type="checkbox"/>		CARRIERWAYBILL NUMBER: FED EX # 8770 6393 5680		CARRIERWAYBILL NUMBER: FED EX # 8770 6393 5680		MOUNTAINSIDE, NJ 07092		CITY, STATE	
RUSH TAT <input type="checkbox"/>		72 hr. <input checked="" type="checkbox"/> 7 day <input type="checkbox"/> 14 day <input type="checkbox"/>		MATRIX (GW, SO, SW, SD, QC, ETC.)		COLLECTION METHOD		NO. OF CONTAINERS	
72 HR FAX RESULTS		LOCATION ID		BOTTOM DEPTH (FT)		GRAB (G) COMP (C)		PRESERVATIVE USED	
DATE		SAMPLE ID		TOP DEPTH (FT)		TYPE OF ANALYSIS		COMMENTS	
7/17 0800	BP-VPB-TB-071712	TB	QC	2					
7/17 1000	BP-VPB136-GW-381	VPB 136	GW	1	380	GW			
7/17 1215	BP-VPB136-GW-401	"	GW	2	400	GW			
7/17 1420	BP-VPB136-GW-421	"	GW	2	420	GW			
7/18 0910	BP-VPB136-GW-441	"	GW	2	440	GW			
7/18 1115	BP-VPB136-GW-461	"	GW	1	460	GW			
7/18 1400	BP-VPB136-GW-481	"	GW	2	480	GW			
7/19 0910	BP-VPB136-GW-501	"	GW	1	500	GW			
7/19 1120	BP-VPB136-GW-521	"	GW	1	520	GW			
7/19 1515	BP-VPB136-GW-541	"	GW	2	540	GW			
1. RELINQUISHED BY: <i>SJ Contec</i>		DATE: 7/19/12		TIME: 1600		1. RECEIVED BY: <i>FED EX</i>		DATE: 7-20-12	
2. RELINQUISHED BY:		DATE:		TIME:		2. RECEIVED BY:		DATE:	
3. RELINQUISHED BY: <i>Fedex</i>		DATE: 7-20-12		TIME: 10:00		3. RECEIVED BY: <i>Palda School</i>		DATE: 7-20-12	
COMMENTS: Temp: 6°C									

D 3507

PROJECT NO: 112602751
 FACILITY: BETHPAGE 012
 SAMPLERS (SIGNATURE): *SJ Conter*

LABORATORY NAME AND CONTACT: CHEMTECH/HUMMEL
 ADDRESS: 284 SHEPPARD ST.
 CITY, STATE: MOUNTAINSIDE, NJ 07092

PHONE NUMBER: 757 461 3824
 PHONE NUMBER: 412 551 2629

CARRIERWAYBILL NUMBER: FED EX 8735 5966 0428

DATE	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SQ, SW, SD, GC, ETC)	COLLECTION METHOD	GRAB (G)	COMP (G)	No. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE USED	COMMENTS
7/20	0800	BP-NPB126-072012	TB	-	-	GC	G	2	2	2	PLASTIC (P) or GLASS (G)	U	
7/20	0945	BP-NPB126-GW-561	VPB 136	560	561	GW	G	2	2	2	PLASTIC (P) or GLASS (G)	U	
7/23	0950	BP-NPB126-GW-581	"	580	581	GW	G	2	2	2	PLASTIC (P) or GLASS (G)	U	
7/23	1130	BP-NPB126-GW-601	"	600	601	GW	G	2	2	2	PLASTIC (P) or GLASS (G)	U	
7/23	1300	BP-NPB126-SW-072312	SW	-	-	SW	G	2	2	2	PLASTIC (P) or GLASS (G)	U	SOURCE WATER HYDRANT/HOSE DRILLING MUD FROM ~ 620'
7/23	1310	BP-NPB126-DM-620	DM	-	-	DM	G	2	2	2	PLASTIC (P) or GLASS (G)	U	
7/23	1430	BP-NPB126-GW-621	VPB 136	620	621	GW	G	2	2	2	PLASTIC (P) or GLASS (G)	U	

STANDARD TAT 24 hr. 48 hr. 72 hr. 7 day 14 day

72 HR FAX RESULTS

1. RELINQUISHED BY: *SJ Conter* DATE: 7-23-17 TIME: 1400 RECEIVED BY: *FED EX* DATE: 7-23-17 TIME: 1400

2. RELINQUISHED BY: DATE: DATE: RECEIVED BY: DATE: TIME:

3. RELINQUISHED BY: *Fedex* DATE: 7-23-17 TIME: 0900 RECEIVED BY: *75* DATE: 7-23-17 TIME: 0920

COMMENTS: Temp: 5°C



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

1213

PAGE

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D3596

PROJECT NO: 112602751		FACILITY: BEHPAGE 002		PROJECT MANAGER D BRAYACK		PHONE NUMBER 757 461 3834		LABORATORY NAME AND CONTACT: CHEMTECH/ HUMMLER	
SAMPLERS (SIGNATURE) <i>SJ Contec</i>		FIELD OPERATIONS LEADER S CONTI		FIELD OPERATIONS LEADER S CONTI		PHONE NUMBER 412 551 2629		ADDRESS 284 SHEFFIELD ST.	
CARRIER/WAYBILL NUMBER FED EX # 8735 5966 0406		CITY, STATE MOUNTAIN SIDE NJ 07092		CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED			
STANDARD TAT <input type="checkbox"/>		RUSH TAT <input type="checkbox"/>		TOP DEPTH (FT)		COLLECTION METHOD		COMMENTS	
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input checked="" type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		72 HR FAX RESULTS		BOTTOM DEPTH (FT)		MATRIX (GW, SO, SW, SD, OC, ETC)		NO. OF CONTAINERS	
DATE	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, OC, ETC)	COLLECTION METHOD	COMP (G) GRAB (G)	COMMENTS
7/24	0800	BP-VPB-TB-072412	TB	-	-	QC	G	2	
7/24	0915	BP-VPB136-GW-641	VPB 136	640	641	GW	G	1	
7/24	1130	BP-VPB136-GW-661	"	660	661	GW	G	2	
7/24	1315	BP-VPB136-GW-681	"	680	681	GW	G	2	
7/24	1530	BP-VPB136-GW-701	"	700	701	GW	G	2	
7/25	1200	BP-VPB136-GW-741	"	740	741	GW	G	2	
7/25	1400	BP-VPB136-SB-761	"	760	761	SO	G	1	
7/26	0710	002-FRAC1-072612	FRAC 1	-	-	GW	G	3	
7/26	0720	002-FRAC3-072612	FRAC 3	-	-	GW	G	3	
1. RELINQUISHED BY		SJ Contec		DATE	7/26/12	TIME	1700	1. RECEIVED BY	
2. RELINQUISHED BY		PREDEX		DATE	7/27/12	TIME	8:45AM	2. RECEIVED BY	FED EX
3. RELINQUISHED BY				DATE		TIME		3. RECEIVED BY	IDT

THE OF ANALYSIS
VOCs (40 ml)
VOCs EPA (40 ml)
PH 4.02
APCC TECH (40 ml)
APCC TECH (40 ml)
APCC TECH (40 ml)

V
STIFF GRAY SILTY CLAY - MOIST
DEV W/SLURRY
TT102D/D2
TT102D/D2
② ERA C24
PLEASE RUSH
24 5:48 HR
TAT
IF POSSIBLE

KURT

DATE 7/26/12 TIME 1700
DATE 7/27/12 TIME 8:45AM
DATE TIME

1. RECEIVED BY
2. RECEIVED BY
3. RECEIVED BY

NO SAMPLE AT 740 → 741
WHITE (ACCOMPANIES SAMPLE)
YELLOW (FIELD COPY)
PINK (FILE COPY)

4/02R



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

120799 No 1211 | PAGE 1 OF 1

0310 of 0327

PROJECT NO: 112602751
 FACILITY: RETAPAGE QV2
 SAMPLERS (SIGNATURE): *SJ Conti*

PROJECT MANAGER: D BRAYACK
 FIELD OPERATIONS LEADER: S CONTI
 CARRIER/WAYBILL NUMBER: FED EX 8735 5966 0417

LABORATORY NAME AND CONTACT: AIR TOXICS LTD / A-SCOTT
 ADDRESS: 180-B BLUE RAVINE RD
 CITY, STATE: FOLSOM, CA - 95630

PHONE NUMBER: 757 461 3824
 PHONE NUMBER: 412 551 2629

CONTAINER TYPE: PLASTIC (P) or GLASS (G)
 PRESERVATIVE USED: /

STANDARD TAT
 RUSH TAT 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD	GRAB (G)	COMP (G)	No. OF CONTAINERS	TYPE OF ANALYSIS	COMMENTS
7/19	0700	BP-VPB136-AIR-071912	VPB	-	-	AIR	G	1			FINAL	-30 -5 CAN 902 (Fall & Mrs) ~ DEW DEPTH DURING MONITORING, OBS & DIST
	1500											Custody Seal Intact? Y N None Temp 8/27/21
												Custody Seal Intact? Y N None Temp 8/27/21
												Custody Seal Intact? Y N None Temp 8/27/21

1. RELINQUISHED BY: *SJ Conti* DATE: 7/19/12 TIME: 1600
 2. RECEIVED BY: *FED EX* DATE: 7/20/12 TIME: 0730
 3. RECEIVED BY: *SJ Conti* DATE: 8/27/21 TIME: 1500

COMMENTS:

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TINUS-001

Section 6

VPB 136 Validation Letters and Tables



TO: D. BRAYACK DATE: AUGUST 22, 2012

FROM: JOSEPH KALINYAK COPIES: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
 NWIRP BETHPAGE, CTO WE62
 SDG D3367

SAMPLES: 10 / Aqueous / VOC

BP-VPB-TB-071012	BP-VPB-TB-071212	BP-VPB135-GW-108
BP-VPB135-GW-153	BP-VPB135-GW-63	BP-VPB136-GW-101
BP-VPB136-GW-161	BP-VPB136-GW-221	BP-VPB136-GW-261
BP-VPB136-GW-281		

2 / Aqueous Samples Analyzed as a Soil / VOC

BP-VPB136-GW-061	BP-VPB136-GW-241
------------------	------------------

Overview

The sample set for NWIRP Bethpage, CTO WE62, SDG D3367 consisted of twelve (12) aqueous samples including two (2) aqueous trip blank samples. Two of the samples had significant sediment in the samples and were analyzed by the laboratory as soils. All samples were analyzed for volatile organic compounds (VOC) as listed above. No field duplicate sample pairs were included in this Sample Delivery Group (SDG).

The samples were collected by Tetra Tech on July 10, 11, and 12, 2012 and analyzed by ChemTech laboratory. The sample analyses were conducted in accordance with EPA SW-846 Method 8260C for VOCs, analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * • Laboratory Blank Results
- Laboratory Control Sample Recoveries
- Matrix Spike/Matrix Spike Duplicate Recoveries
- Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/11/12 and for instrument MSVOA_R on 07/11/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The CCV percent differences (%D) were greater than the 20% quality control limit for methyl acetate for instrument MSVOA_F on 07/16/12 @ 11:34.

Affected sample: BP-VPB136-GW-061 and BP-VPB136-GW-241

Action: The non-detected methyl acetate results for the sample were qualified estimated, (UJ).

The CCV %Ds were greater than the 20% quality control limit for methyl acetate, 2-hexanone, and 1,4-dioxane for instrument MSVOA_R on 07/16/12 @ 23:25.

Affected sample:

BP-VPB-TB-071012	BP-VPB-TB-071212	BP-VPB135-GW-108
BP-VPB135-GW-153	BP-VPB135-GW-63	BP-VPB136-GW-101
BP-VPB136-GW-161	BP-VPB136-GW-221	BP-VPB136-GW-261
BP-VPB136-GW-281		

Action: The positive and non-detected methyl acetate and 2-hexanone results for the samples were qualified estimated, (J) and (UJ), respectively. The 1,4-dioxane results were rejected for the RRF criteria non-compliance and no further action was necessary.

The surrogate %Rs were greater than the quality control limit for 1,2-dichloroethane-d4 for samples BP-VPB136-GW-221, BP-VPB135-GW-63, and BP-VPB136-GW-281. The samples BP-VPB136-GW-221 and BP-VPB135-GW-63 were re-analyzed by the laboratory with similar non-compliant surrogate %Rs. As there was no improvement in the surrogate %Rs, the original sample results for the samples were used for validation.

Affected samples: BP-VPB135-GW-63, BP-VPB136-GW-221, and BP-VPB136-GW-281

Action: The positive VOCs for samples BP-VPB135-GW-63 and BP-VPB136-GW-221 were qualified estimated, (J). All VOC results for sample BP-VPB136-GW-281 were non-detected and no validation action was necessary.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The laboratory control sample (LCS) percent recoveries (%R) were greater than the quality control limit for chloromethane for batch VBF0716S2.

Affected samples:

BP-VPB-TB-071012	BP-VPB-TB-071212	BP-VPB135-GW-108
BP-VPB135-GW-153	BP-VPB135-GW-63	BP-VPB136-GW-101
BP-VPB136-GW-161	BP-VPB136-GW-221	BP-VPB136-GW-261
BP-VPB136-GW-281		

Action: The sample results for chloromethane were non-detected and therefore no validation action was necessary.

Two matrix spike (MS) and MS duplicate (MSD) samples had %Rs for VOC analytes that there were non-compliant and MS/MSD relative percent differences (RPD) that exceeded the quality control limits for

TO: D. BRAYACK
SDG: D3367

PAGE: 3

VOC analytes. No validation action was taken as the spiked samples were not from this SDG.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

The VOC results for aqueous samples BP-VPB136-GW-061 and BP-VPB136-GW-241 were reported in soil units of $\mu\text{g}/\text{kg}$ uncorrected for moisture content.

Samples BP-VPB136-GW-061, BP-VPB136-GW-241, BP-VPB135-GW-108, BP-VPB135-GW-153, BP-VPB135-GW-63, and BP-VPB136-GW-101 had VOCs, including naphthalene and difluorochloromethane, identified in the tentatively identified compound (TIC) page for the laboratory sample analysis reports. This information is included in Appendix B of this report.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC results were qualified for RRF criteria, CCV %D, and surrogate %R non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).


Tetra Tech
Joseph Kalinyak
Chemist/Data Validator


Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.5 U			2.45 U	
1,1,2,2-TETRACHLOROETHANE		2.5 U			2.45 U	
1,1,2-TRICHLOROETHANE		2.5 U			2.45 U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.5 U			2.45 U	
1,1-DICHLOROETHANE		2.5 U			2.45 U	
1,1-DICHLOROETHENE		2.5 U			2.45 U	
1,2,3-TRICHLOROBENZENE		2.5 U			2.45 U	
1,2,4-TRICHLOROBENZENE		2.5 U			2.45 U	
1,2-DIBROMO-3-CHLOROPROPANE		2.5 U			2.45 U	
1,2-DIBROMOETHANE		2.5 U			2.45 U	
1,2-DICHLOROBENZENE		2.5 U			2.45 U	
1,2-DICHLOROETHANE		2.5 U			2.45 U	
1,2-DICHLOROPROPANE		2.5 U			2.45 U	
1,3-DICHLOROBENZENE		2.5 U			2.45 U	
1,4-DICHLOROBENZENE		2.5 U			2.45 U	
1,4-DIOXANE	49.5 UR	C			49 UR	C
2-BUTANONE	12.5 U				12.5 U	
2-HEXANONE	12.5 U				12.5 U	
4-METHYL-2-PENTANONE	12.5 U				12.5 U	
ACETONE	27				24 J	P
BENZENE	2.5 U				2.45 U	
BROMOCHLOROMETHANE	2.5 U				2.45 U	
BROMODICHLOROMETHANE	2.5 U				2.45 U	
BROMOFORM	2.5 U				2.45 U	
BROMOMETHANE	2.5 U				2.45 U	
CARBON DISULFIDE	2.5 U				2.45 U	
CARBON TETRACHLORIDE	2.5 U				2.45 U	
CHLOROBENZENE	2.5 U				2.45 U	
CHLORODIBROMOMETHANE	2.5 U				2.45 U	
CHLOROETHANE	2.5 U				2.45 U	
CHLOROFORM	2.5 U				2.45 U	
CHLOROMETHANE	2.5 U				2.45 U	
CIS-1,2-DICHLOROETHENE	2.5 U				2.45 U	
CIS-1,3-DICHLOROPROPENE	2.5 U				2.45 U	
CYCLOHEXANE	2.5 U				2.45 U	

PROJ_NO: 02751
 SDG: D3367
 FRACTION: OV
 MEDIA: SOIL

NSAMPLE BP-VPB136-GW-061 BP-VPB136-GW-241
 LAB_ID D3367-02 D3367-06
 SAMP_DATE 7/10/2012 7/12/2012
 QC_TYPE NM NM
 UNITS UG/KG UG/KG
 PCT_SOLIDS 0.0 0.0
 DUP_OF

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-061	BP-VPB136-GW-241
SDG: D3367	LAB_ID	D3367-02	D3367-06
FRACTION: OV	SAMP_DATE	7/10/2012	7/12/2012
MEDIA: SOIL	QC_TYPE	NM	NM
	UNITS	UG/KG	UG/KG
	PCT_SOLIDS	0.0	0.0
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	2.5 U	2.45 U	
ETHYLBENZENE	2.5 U	2.45 U	
ISOPROPYLBENZENE	2.5 U	2.45 U	
M+P-XYLENES	4.95 U	4.9 U	
METHYL ACETATE	2.5 UJ	2.45 UJ	C
METHYL CYCLOHEXANE	2.5 U	2.45 U	
METHYL TERT-BUTYL ETHER	2.5 U	2.45 U	
METHYLENE CHLORIDE	2.5 U	2.45 U	
O-XYLENE	2.5 U	2.45 U	
STYRENE	2.5 U	2.45 U	
TETRACHLOROETHENE	1.4 J	2.45 U	P
TOLUENE	2.5 U	2.45 U	
TRANS-1,2-DICHLOROETHENE	2.5 U	2.45 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.45 U	
TRICHLOROETHENE	2.5 U	2.45 U	
TRICHLOROFUOROMETHANE	2.5 U	2.45 U	
VINYL CHLORIDE	2.5 U	2.45 U	

PROJ_NO: 02751	NSAMPLE	BP_VPB135-GW-108	BP_VPB135-GW-153	BP_VPB135-GW-63	BP_VPB136-GW-101				
SDG: D3367	LAB_ID	D3367-11	D3367-12	D3367-10	D3367-03				
FRACTION: OV	SAMP_DATE	7/12/2012	7/12/2012	7/12/2012	7/11/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.64 J	0.5 U	P		0.5 U			0.5 U	
1,1-DICHLOROETHANE	4.7	7.2			0.5 U			0.5 U	
1,1-DICHLOROETHENE	0.5 U	1.9			0.5 U			0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2-DIBROMOETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2-DICHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2-DICHLOROETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,2-DICHLOROPROPANE	0.5 U	0.5 U			0.5 U			0.5 U	
1,3-DICHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
1,4-DICHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
1,4-DIOXANE	10 UR	10 UR	C		10 UR	C		10 UR	C
2-BUTANONE	2.5 U	2.5 U			20 J	R		2.5 U	
2-HEXANONE	2.5 UJ	2.5 UJ	C		3.8 J	CPR		2.5 UJ	C
4-METHYL-2-PENTANONE	2.5 U	2.5 U			2.5 U			2.5 U	
ACETONE	21	18			96 J	R		23	
BENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
BROMOCHLOROMETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
BROMODICHLOROMETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
BROMOFORM	0.5 U	0.5 U			0.5 U			0.5 U	
BROMOMETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
CARBON DISULFIDE	0.5 U	0.5 U			0.5 U			0.5 U	
CARBON TETRACHLORIDE	0.5 U	0.5 U			0.5 U			0.5 U	
CHLOROBENZENE	0.5 U	0.5 U			0.5 U			0.5 U	
CHLORODIBROMOMETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
CHLOROETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
CHLOROFORM	0.5 U	0.5 U			0.5 U			0.5 U	
CHLOROMETHANE	0.5 U	0.5 U			0.5 U			0.5 U	
CIS-1,2-DICHLOROETHENE	8	14			0.5 U			0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U	0.5 U			0.5 U			0.5 U	
CYCLOHEXANE	0.5 U	0.5 U			0.5 U			0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-161	BP-VPB136-GW-221	BP-VPB136-GW-261	BP-VPB136-GW-281				
SDG: D3367	LAB_ID	D3367-04	D3367-05	D3367-07	D3367-08				
FRACTION: OV	SAMP_DATE	7/11/2012	7/11/2012	7/12/2012	7/12/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMOETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,3-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DIOXANE	10 UR	10 UR	C	10 UR	10 UR	C	10 UR	10 UR	C
2-BUTANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
2-HEXANONE	2.5 UJ	2.5 UJ	C	2.5 UJ	2.5 UJ	C	2.5 UJ	2.5 UJ	C
4-METHYL-2-PENTANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ACETONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOCHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMODICHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON DISULFIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON TETRACHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLORODIBROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751	NSAMPLE	BP_VPB-TB-071012	BP_VPB-TB-071212			
SDG: D3367	LAB_ID	D3367-01	D3367-09			
FRACTION: OV	SAMP_DATE	7/10/2012	7/12/2012			
MEDIA: WATER	QC_TYPE	NM	NM			
	UNITS	UG/L	UG/L			
	PCT_SOLIDS	0.0	0.0			
	DUP_OF					
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMOETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U	
1,3-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DIOXANE	10 UR	10 UR	C	10 UR	10 UR	C
2-BUTANONE	2.5 U	2.5 U		2.5 U	2.5 U	
2-HEXANONE	2.5 UJ	2.5 UJ	C	2.5 UJ	2.5 UJ	C
4-METHYL-2-PENTANONE	2.5 U	2.5 U		2.5 U	2.5 U	
ACETONE	2.5 U	2.5 U		2.5 U	2.5 U	
BENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
BROMOCHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
BROMODICHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
BROMOFORM	0.5 U	0.5 U		0.5 U	0.5 U	
BROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
CARBON DISULFIDE	0.5 U	0.5 U		0.5 U	0.5 U	
CARBON TETRACHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U	
CHLORODIBROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROFORM	0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U	
CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751 SDG: D3367 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB136-GW-161		BP-VPB136-GW-221		BP-VPB136-GW-261		BP-VPB136-GW-281								
	LAB_ID	SAMP_DATE	QC_TYPE	UNITS	PCT_SOLIDS	DUP_OF	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD
	D3367-04	7/11/2012	NM	UG/L	0.0												
	D3367-05	7/11/2012	NM	UG/L	0.0												
	D3367-07	7/12/2012	NM	UG/L	0.0												
	D3367-08	7/12/2012	NM	UG/L	0.0												
PARAMETER	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD
DICHLORODIFLUOROMETHANE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
ETHYLBENZENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
ISOPROPYLBENZENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
M+P-XYLENES	1 U		1 U			1 U			1 U			1 U			1 U		
METHYL ACETATE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
METHYL CYCLOHEXANE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
METHYL TERT-BUTYL ETHER	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
METHYLENE CHLORIDE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
O-XYLENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
STYRENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
TETRACHLOROETHENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
TOLUENE	0.5 U		0.5 U			0.41 J	PR		0.5 U			0.5 U			0.5 U		
TRANS-1,2-DICHLOROETHENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
TRANS-1,3-DICHLOROPROPENE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
TRICHLOROETHENE	4.6		4.6			1.7 J	R		0.5 U			0.5 U			0.5 U		
TRICHLOROFLUOROMETHANE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		
VINYL CHLORIDE	0.5 U		0.5 U			0.5 U			0.5 U			0.5 U			0.5 U		

PROJ_NO: 02751 SDG: D3367 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB-TB-071012		BP-VPB-TB-071212			
	LAB_ID	D3367-01	RESULT	VQL	QLCD	RESULT	VQL	QLCD
	SAMP_DATE	7/10/2012				7/12/2012		
	QC_TYPE	NM				NM		
	UNITS	UG/L				UG/L		
	PCT_SOLIDS	0.0				0.0		
	DUP_OF							
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	QLCD
DICHLORODIFLUOROMETHANE		0.5 U			0.5 U		0.5 U	
ETHYLBENZENE		0.5 U			0.5 U		0.5 U	
ISOPROPYLBENZENE		0.5 U			0.5 U		0.5 U	
M+P-XYLENES		1 U			1 U		1 U	
METHYL ACETATE		0.5 U			0.5 U		0.5 U	
METHYL CYCLOHEXANE		0.5 U			0.5 U		0.5 U	
METHYL TERT-BUTYL ETHER		0.5 U			0.5 U		0.5 U	
METHYLENE CHLORIDE		0.5 U			0.5 U		0.5 U	
O-XYLENE		0.5 U			0.5 U		0.5 U	
STYRENE		0.5 U			0.5 U		0.5 U	
TETRACHLOROETHENE		0.5 U			0.5 U		0.5 U	
TOLUENE		0.5 U			0.5 U		0.5 U	
TRANS-1,2-DICHLOROETHENE		0.5 U			0.5 U		0.5 U	
TRANS-1,3-DICHLOROPROPENE		0.5 U			0.5 U		0.5 U	
TRICHLOROETHENE		0.5 U			0.5 U		0.5 U	
TRICHLOROFUOROMETHANE		0.5 U			0.5 U		0.5 U	
VINYL CHLORIDE		0.5 U			0.5 U		0.5 U	

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VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/17/12, for instrument MSVOA_N on 07/23/12, and for instrument MSVOA_R on 07/11/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The CCV percent differences (%D) were greater than the 20% quality control limit for acetone, methyl acetate, 2-butanone, 2-hexanone, and 1,4-dioxane for instrument MSVOA_R on 07/18/12 @ 10:03.

Affected samples:

BP-VPB-TB-071312 BP-VPB136-GW-301

Action: The non-detected acetone, methyl acetate, 2-butanone, and 2-hexanone results for the sample were qualified estimated, (UJ). The 1,4-dioxane non-detected results were rejected for RRF criteria and no further validation action was necessary.

The CCV percent differences (%D) were greater than the 20% quality control limit for acetone, 2-butanone, 2-hexanone, and 1,4-dioxane for instrument MSVOA_R on 07/19/12 @ 09:56.

Affected sample: BP-VPB-TB-071312-1

Action: The non-detected acetone, 2-butanone, and 2-hexanone results for the sample were qualified estimated, (UJ). The 1,4-dioxane non-detected results were rejected for RRF criteria and no further validation action was necessary.

The CCV percent differences (%D) were greater than the 20% quality control limit for acetone, methyl acetate, 2-butanone, 2-hexanone, and 1,4-dioxane for instrument MSVOA_R on 07/20/12 @ 13:47.

Affected samples:

BP-VPB135-GW-198 BP-VPB135-GW-198 dilution analysis

Action: The positive and non-detected acetone, methyl acetate, 2-butanone, and 2-hexanone results for the sample were qualified estimated, (J) and (UJ), respectively. The 1,4-dioxane non-detected results were rejected for RRF criteria and no further validation action was necessary. As only the trichloroethene result for the sample BP-VPB135-GW-198 re-analysis was reported, no validation action was taken for the sample re-analysis results.

The surrogate 1,2-dichloroethane-d4 %Rs were greater than the quality control limit for samples BP-VPB135-GW-198 and BP-VPB136-GW-301. The sample BP-VPB136-GW-301 was re-analyzed with a similar surrogate %R non-compliance. The sample VPB135-GW-198 was re-analyzed, at a dilution due to a high trichloroethene result in the undiluted sample analysis, with a similar surrogate %R non-compliance. The original sample analysis for both samples was reported/validated with the exception of the trichloroethene result for sample BP-VPB135-GW-198 which was reported from the dilution analysis.

Affected samples:

BP-VPB135-GW-198 BP-VPB135-GW-198 dilution analysis

BP-VPB136-GW-301

Action: The positive VOC results reported for the samples were qualified estimated, (J).

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

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The laboratory control sample (LCS) percent recovery (%R) was greater than the quality control limit for 1,4-dioxane for batch VR0720WBS.

Affected samples:

BP-VPB135-GW-198

BP-VPB135-GW-198 dilution analysis

BP-VPB136-GW-301 re-analysis

Action: The sample results for 1,4-dioxane were rejected for the RRF criteria non-compliance and therefore no validation action was necessary.

A matrix spike (MS) sample and MS duplicate (MSD) sample had %Rs that there were non-compliant and MS/MSD relative percent differences (RPD) that exceeded the quality control limits for several VOC analytes. No validation action was taken as the spiked sample was not from this SDG.

A MS/MSD RPD exceeded the quality control limits for 1,4-dioxane for spiked sample BP-VPB135-GW-238. No validation action was taken for a RPD non-compliance alone.

Sample was analyzed both undiluted and diluted 50X due to a result for trichloroethene which exceeded the highest calibration level for the undiluted sample analysis. Only the trichloroethene result was reported from the 50X dilution analysis.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

The VOC results for aqueous samples BP-VPB135-GW-238, BP-VPB135-GW-258 , and BP-VPB135-GW-278 were reported in soil units of $\mu\text{g}/\text{kg}$ uncorrected for moisture content.

Samples BP-VPB135-GW-238, BP-VPB135-GW-278, BP-VPB135-GW-198, and BP-VPB135-GW-218 had VOCs including naphthalene identified in the tentatively identified compound (TIC) page for the laboratory sample analysis reports. This information is included in Appendix B of this report.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC 1,4-dioxane non-detected results were rejected for RRF criteria non-compliances. Sample VOC analytes were qualified for CCV %D and surrogate %R non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

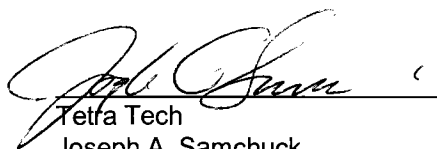
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The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).



Tetra Tech
Joseph Kalinyak
Chemist/Data Validator



Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751 SDG: D3413 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB135-GW-238		BP-VPB135-GW-258		BP-VPB135-GW-278		
	LAB_ID	D3413-04	D3413-05	D3413-06	LAB_ID	D3413-06	LAB_ID	D3413-06	
SAMP_DATE	7/16/2012	7/16/2012	7/16/2012	7/16/2012	SAMP_DATE	7/16/2012	SAMP_DATE	7/16/2012	
QC_TYPE	NM	NM	NM	NM	QC_TYPE	NM	QC_TYPE	NM	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UNITS	UG/KG	UNITS	UG/KG	
PCT_SOLIDS	0.0	0.0	0.0	0.0	PCT_SOLIDS	0.0	PCT_SOLIDS	0.0	
DUP_OF					DUP_OF		DUP_OF		
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.5 U			2.5 U			2.5 U	
1,1,2,2-TETRACHLOROETHANE		2.5 U			2.5 U			2.5 U	
1,1,2-TRICHLOROETHANE		2.5 U			2.5 U			2.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.5 U			2.5 U			2.5 U	
1,1-DICHLOROETHANE		2.5 U			2.5 U			2.5 U	
1,1-DICHLOROETHENE		2.5 U			2.5 U			2.5 U	
1,2,3-TRICHLOROBENZENE		2.5 U			2.5 U			2.5 U	
1,2,4-TRICHLOROBENZENE		2.5 U			2.5 U			2.5 U	
1,2-DIBROMO-3-CHLOROPROPANE		2.5 U			2.5 U			2.5 U	
1,2-DIBROMOETHANE		2.5 U			2.5 U			2.5 U	
1,2-DICHLOROBENZENE		2.5 U			2.5 U			2.5 U	
1,2-DICHLOROETHANE		2.5 U			2.5 U			2.5 U	
1,2-DICHLOROPROPANE		2.5 U			2.5 U			2.5 U	
1,3-DICHLOROBENZENE		2.5 U			2.5 U			2.5 U	
1,4-DICHLOROBENZENE		2.5 U			2.5 U			2.5 U	
1,4-DIOXANE		49.5 UR	C		50 UR	C		49.5 UR	C
2-BUTANONE		12.5 U			12.5 U			12.5 U	
2-HEXANONE		12.5 U			12.5 U			12.5 U	
4-METHYL-2-PENTANONE		12.5 U			12.5 U			12.5 U	
ACETONE		35			30			12.5 U	
BENZENE		2.5 U			2.5 U			2.5 U	
BROMOCHLOROMETHANE		2.5 U			2.5 U			2.5 U	
BROMODICHLOROMETHANE		2.5 U			2.5 U			2.5 U	
BROMOFORM		2.5 U			2.5 U			2.5 U	
BROMOMETHANE		2.5 U			2.5 U			2.5 U	
CARBON DISULFIDE		2.5 U			2.5 U			2.5 U	
CARBON TETRACHLORIDE		2.5 U			2.5 U			2.5 U	
CHLOROBENZENE		2.5 U			2.5 U			2.5 U	
CHLORODIBROMOMETHANE		2.5 U			2.5 U			2.5 U	
CHLOROETHANE		2.5 U			2.5 U			2.5 U	
CHLOROFORM		2.5 U			2.5 U			2.5 U	
CHLOROMETHANE		2.5 U			2.5 U			2.5 U	
CIS-1,2-DICHLOROETHENE		2.5 U			2.5 U			2.5 U	
CIS-1,3-DICHLOROPROPENE		2.5 U			2.5 U			2.5 U	
CYCLOHEXANE		2.5 U			2.5 U			2.5 U	

PROJ_NO: 02751 SDG: D3413 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB135-GW-238		BP-VPB135-GW-258		BP-VPB135-GW-278		
	LAB_ID	D3413-04	D3413-05	D3413-06	LAB_ID	D3413-06	LAB_ID	D3413-06	
	SAMP_DATE	7/16/2012	7/16/2012	7/16/2012	SAMP_DATE	7/16/2012	SAMP_DATE	7/16/2012	
	QC_TYPE	NM	NM	NM	QC_TYPE	NM	QC_TYPE	NM	
	UNITS	UG/KG	UG/KG	UG/KG	UNITS	UG/KG	UNITS	UG/KG	
	PCT_SOLIDS	0.0	0.0	0.0	PCT_SOLIDS	0.0	PCT_SOLIDS	0.0	
	DUP_OF				DUP_OF		DUP_OF		
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ETHYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ISOPROPYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
M+P-XYLENES	4.95 U	5 U		5 U	5 U		4.95 U	4.95 U	
METHYL ACETATE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL TERT-BUTYL ETHER	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYLENE CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
O-XYLENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
STYRENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TETRACHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TOLUENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U		2.5 U	4.2 J	P	16	16	
VINYL CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB135-GW-198	BP-VPB135-GW-198DL	BP-VPB135-GW-218	BP-VPB136-GW-301				
SDG: D3413	LAB_ID	D3413-02	D3413-02DL	D3413-03	D3413-08				
FRACTION: OV	SAMP_DATE	7/13/2012	7/13/2012	7/13/2012	7/13/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U				0.5 U			0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U				0.5 U			0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U				0.5 U			0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U				0.5 U			0.5 U	
1,1-DICHLOROETHANE	5.8 J		R		0.5 U			0.5 U	
1,1-DICHLOROETHENE	0.5 U				0.5 U			0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U				0.5 U			0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U				0.5 U			0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U				0.5 U			0.5 U	
1,2-DIBROMOETHANE	0.5 U				0.5 U			0.5 U	
1,2-DICHLOROBENZENE	0.5 U				0.5 U			0.5 U	
1,2-DICHLOROETHANE	0.5 U				0.5 U			0.5 U	
1,2-DICHLOROPROPANE	0.5 U				0.5 U			0.5 U	
1,3-DICHLOROBENZENE	0.5 U				0.5 U			0.5 U	
1,4-DICHLOROBENZENE	0.5 U				0.5 U			0.5 U	
1,4-DIOXANE	10 UR	C			10 UR	C		10 UR	C
2-BUTANONE	2.5 UJ	C			14			2.5 UJ	C
2-HEXANONE	2.5 UJ	C			5.3			2.5 UJ	C
4-METHYL-2-PENTANONE	2.5 U				2.5 U			2.5 U	
ACETONE	29 J	CR			43			2.5 UJ	C
BENZENE	0.5 U				0.5 U			0.5 U	
BROMOCHLOROMETHANE	0.5 U				0.5 U			0.5 U	
BROMODICHLOROMETHANE	0.5 U				0.5 U			0.5 U	
BROMOFORM	0.5 U				0.5 U			0.5 U	
BROMOMETHANE	0.5 U				0.5 U			0.5 U	
CARBON DISULFIDE	0.5 U				0.5 U			0.5 U	
CARBON TETRACHLORIDE	0.5 U				0.5 U			0.5 U	
CHLOROBENZENE	0.5 U				0.5 U			0.5 U	
CHLORODIBROMOMETHANE	0.5 U				0.5 U			0.5 U	
CHLOROETHANE	0.5 U				0.5 U			0.5 U	
CHLOROFORM	0.5 U				0.5 U			0.5 U	
CHLOROMETHANE	0.5 U				0.42 J	P		0.5 U	
CIS-1,2-DICHLOROETHENE	12 J	R			0.5 U			0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U				0.5 U			0.5 U	
CYCLOHEXANE	0.5 U				0.5 U			0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-321	BP-VPB136-GW-341	BP-VPB136-GW-361	BP-VPB-TB-071312				
SDG: D3413	LAB_ID	D3413-09	D3413-10	D3413-11	D3413-07				
FRACTION: OV	SAMP_DATE	7/16/2012	7/16/2012	7/16/2012	7/13/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMOETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,3-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DIOXANE	10 UR	10 UR	C	10 UR	10 UR	C	10 UR	10 UR	C
2-BUTANONE	9.4	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
2-HEXANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
4-METHYL-2-PENTANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ACETONE	92	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOCHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMODICHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON DISULFIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON TETRACHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLORODIBROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB-TB-071312-1	
SDG: D3413	LAB_ID	D3413-01	
FRACTION: OV	SAMP_DATE	7/13/2012	
MEDIA: WATER	QC_TYPE	NM	
	UNITS	UG/L	
	PCT_SOLIDS	0.0	
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U		
1,1,2,2-TETRACHLOROETHANE	0.5 U		
1,1,2-TRICHLOROETHANE	0.5 U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U		
1,1-DICHLOROETHANE	0.5 U		
1,1-DICHLOROETHENE	0.5 U		
1,2,3-TRICHLOROBENZENE	0.5 U		
1,2,4-TRICHLOROBENZENE	0.5 U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U		
1,2-DIBROMOETHANE	0.5 U		
1,2-DICHLOROBENZENE	0.5 U		
1,2-DICHLOROETHANE	0.5 U		
1,2-DICHLOROPROPANE	0.5 U		
1,3-DICHLOROBENZENE	0.5 U		
1,4-DICHLOROBENZENE	0.5 U		
1,4-DIOXANE	10 UR	C	
2-BUTANONE	2.5 UJ	C	
2-HEXANONE	2.5 UJ	C	
4-METHYL-2-PENTANONE	2.5 U		
ACETONE	2.5 UJ	C	
BENZENE	0.5 U		
BROMOCHLOROMETHANE	0.5 U		
BROMODICHLOROMETHANE	0.5 U		
BROMOFORM	0.5 U		
BROMOMETHANE	0.5 U		
CARBON DISULFIDE	0.5 U		
CARBON TETRACHLORIDE	0.5 U		
CHLOROBENZENE	0.5 U		
CHLORODIBROMOMETHANE	0.5 U		
CHLOROETHANE	0.5 U		
CHLOROFORM	0.5 U		
CHLOROMETHANE	0.5 U		
CIS-1,2-DICHLOROETHENE	0.5 U		
CIS-1,3-DICHLOROPROPENE	0.5 U		
CYCLOHEXANE	0.5 U		

PROJ_NO: 02751	NSAMPLE	BP-VPB135-GW-198	BP-VPB135-GW-198DL	BP-VPB135-GW-218	BP-VPB136-GW-301				
SDG: D3413	LAB_ID	D3413-02	D3413-02DL	D3413-03	D3413-08				
FRACTION: OV	SAMP_DATE	7/13/2012	7/13/2012	7/13/2012	7/13/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U				0.5 U			0.5 U	
ETHYLBENZENE	0.5 U				0.5 U			0.5 U	
ISOPROPYLBENZENE	0.5 U				0.5 U			0.5 U	
M+P-XYLENES	1 U				1 U			1 U	
METHYL ACETATE	0.5 UJ		C		0.5 U			0.5 UJ	C
METHYL CYCLOHEXANE	0.5 U				0.5 U			0.5 U	
METHYL TERT-BUTYL ETHER	0.5 U				0.5 U			0.5 U	
METHYLENE CHLORIDE	0.5 U				0.5 U			0.5 U	
O-XYLENE	0.5 U				0.5 U			0.5 U	
STYRENE	0.5 U				0.5 U			0.5 U	
TETRACHLOROETHENE	3.5 J		R		0.51 J		P	0.5 U	
TOLUENE	0.5 U				0.5 U			0.5 U	
TRANS-1,2-DICHLOROETHENE	0.5 U				0.5 U			0.5 U	
TRANS-1,3-DICHLOROPROPENE	0.5 U				0.5 U			0.5 U	
TRICHLOROETHENE									
TRICHLOROFLUOROMETHANE	0.5 U			4000 J	140			1.3 J	R
VINYL CHLORIDE	0.5 U				0.5 U			0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-321	BP-VPB136-GW-341	BP-VPB136-GW-361	BP-VPB-TB-071312				
SDG: D3413	LAB_ID	D3413-09	D3413-10	D3413-11	D3413-07				
FRACTION: OV	SAMP_DATE	7/16/2012	7/16/2012	7/16/2012	7/13/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ETHYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ISOPROPYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
M+P-XYLENES	1 U	1 U		1 U	1 U		1 U	1 U	
METHYL ACETATE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 UJ	C
METHYL CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL TERT-BUTYL ETHER	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYLENE CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
O-XYLENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
STYRENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TETRACHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TOLUENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.53 J	P	
TRICHLOROFLUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
VINYL CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB-TB-071312-1	
SDG: D3413	LAB_ID	D3413-01	
FRACTION: OV	SAMP_DATE	7/13/2012	
MEDIA: WATER	QC_TYPE	NM	
	UNITS	UG/L	
	PCT_SOLIDS	0.0	
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U		
ETHYLBENZENE	0.5 U		
ISOPROPYLBENZENE	0.5 U		
M+P-XYLENES	1 U		
METHYL ACETATE	0.5 U		
METHYL CYCLOHEXANE	0.5 U		
METHYL TERT-BUTYL ETHER	0.5 U		
METHYLENE CHLORIDE	0.5 U		
O-XYLENE	0.5 U		
STYRENE	0.5 U		
TETRACHLOROETHENE	0.5 U		
TOLUENE	0.5 U		
TRANS-1,2-DICHLOROETHENE	0.5 U		
TRANS-1,3-DICHLOROPROPENE	0.5 U		
TRICHLOROETHENE	0.5 U		
TRICHLOROFUOROMETHANE	0.5 U		
VINYL CHLORIDE	0.5 U		

VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/17/12, MSVOA_N on 07/20/12, and for instrument MSVOA_N on 07/23/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The following VOC contaminant was detected in the trip blanks at the following maximum concentrations.

<u>Analyte</u>	<u>Maximum Conc. µg/L</u>	<u>Action Level µg/L</u>
Methylene chloride ⁽¹⁾	0.47	4.70
Carbon disulfide ⁽²⁾	0.5	2.5
Chloromethane ⁽²⁾	0.46	2.30

⁽¹⁾ Trip blank sample BP-VPB-TB-071912 affecting all samples.

⁽²⁾ Trip blank sample BP-VPB-TB-071712 affecting all samples

An action level of ten times the maximum level for methylene chloride and five times the maximum level for carbon disulfide and chloromethane has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The trip blank samples were not qualified for trip blank contamination. Carbon disulfide sample results were qualified non-detected, (U), due to trip blank contamination.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

A MS duplicate (MSD) sample had a percent recovery (%R) that was non-compliant for a VOC analyte and a MS/MSD relative percent differences (RPD) that exceeded the quality control limit for an analyte. No validation action was taken as this was not a spiked sample from this SDG.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

The VOC results for aqueous samples BP-VPB135-GW-398, BP-VPB136-GW-461, BP-VPB136-GW-481, BP-VPB136-GW-501, and, BP-VPB136-GW-521 were reported in soil units of µg/kg uncorrected for moisture content.

Sample BP-VPB136-GW-381 had VOCs, including naphthalene and tert butyl alcohol, identified in the tentatively identified compound (TIC) page for the laboratory sample analysis report. This information is included in Appendix B of this report.

TO: D. BRAYACK
SDG: D3470

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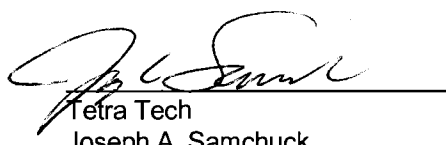
EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC results were qualified for RRF criteria non-compliance and trip blank contamination.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).


Tetra Tech
Joseph Kalinyak
Chemist/Data Validator


Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

APPENDIX A

QUALIFIED LABORATORY RESULTS

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751 SDG: D3470 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB136-GW-381		BP-VPB136-GW-401		BP-VPB136-GW-421		BP-VPB136-GW-441			
	LAB_ID	SAMP_DATE	D3470-02	7/17/2012	D3470-03	7/17/2012	D3470-04	7/17/2012	D3470-05	7/18/2012		
QC_TYPE	UNITS	PCT_SOLIDS	DUP_OF	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE				0.5 U				0.5 U			0.5 U	
1,1,2,2-TETRACHLOROETHANE				0.5 U				0.5 U			0.5 U	
1,1,2-TRICHLOROETHANE				0.5 U				0.5 U			0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE				0.5 U				0.5 U			0.5 U	
1,1-DICHLOROETHANE				0.5 U				0.5 U			0.69 J	P
1,1-DICHLOROETHENE				0.5 U				0.5 U			0.5 U	
1,2,3-TRICHLOROBENZENE				0.5 U				0.5 U			0.5 U	
1,2,4-TRICHLOROBENZENE				0.5 U				0.5 U			0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE				0.5 U				0.5 U			0.5 U	
1,2-DIBROMOETHANE				0.5 U				0.5 U			0.5 U	
1,2-DICHLOROBENZENE				0.5 U				0.5 U			0.5 U	
1,2-DICHLOROETHANE				0.5 U				0.5 U			0.5 U	
1,2-DICHLOROPROPANE				0.5 U				0.5 U			0.5 U	
1,3-DICHLOROBENZENE				0.5 U				0.5 U			0.5 U	
1,4-DICHLOROBENZENE				0.5 U				0.5 U			0.5 U	
1,4-DIOXANE				10 UR	C			10 UR	C		10 UR	C
2-BUTANONE				5.1				2.5 U			2.5 U	
2-HEXANONE				2.5 U				2.5 U			2.5 U	
4-METHYL-2-PENTANONE				2.5 U				2.5 U			2.5 U	
ACETONE				35				4.8 J	P		5.6	
BENZENE				0.5 U				0.5 U			0.5 U	
BROMOCHLOROMETHANE				0.5 U				0.5 U			0.5 U	
BROMODICHLOROMETHANE				0.5 U				0.5 U			0.5 U	
BROMOFORM				0.5 U				0.5 U			0.5 U	
BROMOMETHANE				0.5 U				0.5 U			0.5 U	
CARBON DISULFIDE				0.56 U		B		0.5 U			0.5 U	
CARBON TETRACHLORIDE				0.5 U				0.5 U			0.5 U	
CHLOROBENZENE				0.5 U				0.5 U			0.5 U	
CHLORODIBROMOMETHANE				0.5 U				0.5 U			0.5 U	
CHLOROETHANE				0.5 U				0.5 U			0.5 U	
CHLOROFORM				0.5 U				0.5 U			0.5 U	
CHLOROMETHANE				0.5 U		B		0.5 U			0.5 U	
CIS-1,2-DICHLOROETHENE				0.5 U				0.5 U			0.5 U	
CIS-1,3-DICHLOROPROPENE				0.5 U				0.5 U			0.5 U	
CYCLOHEXANE				0.5 U				0.5 U			0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-541	BP-VPB-TB-071712	BP-VPB-TB-071912					
SDG: D3470	LAB_ID	D3470-10	D3470-01	D3470-11					
FRACTION: OV	SAMP_DATE	7/19/2012	7/17/2012	7/19/2012					
MEDIA: WATER	QC_TYPE	NM	NM	NM					
	UNITS	UG/L	UG/L	UG/L					
	PCT_SOLIDS	0.0	0.0	0.0					
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U			0.5 U			0.5 U		
1,1,2,2-TETRACHLOROETHANE	0.5 U			0.5 U			0.5 U		
1,1,2-TRICHLOROETHANE	0.5 U			0.5 U			0.5 U		
1,1,2-TRICHLOROTRIFLUOROETHANE	1.7			0.5 U			0.5 U		
1,1-DICHLOROETHANE	0.5 U			0.5 U			0.5 U		
1,1-DICHLOROETHENE	1.1			0.5 U			0.5 U		
1,2,3-TRICHLOROBENZENE	0.5 U			0.5 U			0.5 U		
1,2,4-TRICHLOROBENZENE	0.5 U			0.5 U			0.5 U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U			0.5 U			0.5 U		
1,2-DIBROMOETHANE	0.5 U			0.5 U			0.5 U		
1,2-DICHLOROBENZENE	0.5 U			0.5 U			0.5 U		
1,2-DICHLOROETHANE	0.5 U			0.5 U			0.5 U		
1,2-DICHLOROPROPANE	0.5 U			0.5 U			0.5 U		
1,3-DICHLOROBENZENE	0.5 U			0.5 U			0.5 U		
1,4-DICHLOROBENZENE	0.5 U			0.5 U			0.5 U		
1,4-DIOXANE	10 UR	C		10 UR	C		10 UR	C	
2-BUTANONE	2.5 U			2.5 U			2.5 U		
2-HEXANONE	2.5 U			2.5 U			2.5 U		
4-METHYL-2-PENTANONE	2.5 U			2.5 U			2.5 U		
ACETONE	4.1 J	P		2.5 U			2.5 U		
BENZENE	0.5 U			0.5 U			0.5 U		
BROMOCHLOROMETHANE	0.5 U			0.5 U			0.5 U		
BROMODICHLOROMETHANE	0.5 U			0.5 U			0.5 U		
BROMOFORM	0.5 U			0.5 U			0.5 U		
BROMOMETHANE	0.5 U			0.5 U			0.5 U		
CARBON DISULFIDE	0.5 U			0.5 U			0.5 U		
CARBON TETRACHLORIDE	0.5 U			0.5 U		P	0.45 J		P
CHLOROBENZENE	0.5 U			0.5 U			0.5 U		
CHLORODIBROMOMETHANE	0.5 U			0.5 U			0.5 U		
CHLOROETHANE	0.5 U			0.5 U			0.5 U		
CHLOROFORM	0.5 U			0.5 U			0.5 U		
CHLOROMETHANE	0.5 U			0.46 J		P	0.4 J		P
CIS-1,2-DICHLOROETHENE	0.71 J	P		0.5 U			0.5 U		
CIS-1,3-DICHLOROPROPENE	0.5 U			0.5 U			0.5 U		
CYCLOHEXANE	0.5 U			0.5 U			0.5 U		

PROJ_NO: 02751 SDG: D3470 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB136-GW-381		BP-VPB136-GW-401		BP-VPB136-GW-421		BP-VPB136-GW-441			
	LAB_ID	SAMP_DATE	D3470-02	7/17/2012	D3470-03	7/17/2012	D3470-04	7/17/2012	D3470-05	7/18/2012		
QC_TYPE	UNITS	PCT_SOLIDS	NM	UG/L	NM	UG/L	NM	UG/L	NM	UG/L		
DUP_OF	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.42 J	0.5 U	P
ETHYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ISOPROPYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
M+P-XYLENES	1 U	1 U		1 U	1 U		1 U	1 U		1 U	1 U	
METHYL ACETATE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL TERT-BUTYL ETHER	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYLENE CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
O-XYLENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
STYRENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TETRACHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		2.2	0.5 U	
TOLUENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROETHENE	0.77 J	1	P	1	1.8		1.8	15		1.8	1.8	
TRICHLOROFUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
VINYL CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751 SDG: D3470 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB136-GW-541		BP-VPB-TB-071712		BP-VPB-TB-071912		
	LAB_ID	D3470-10	D3470-10	D3470-01	D3470-11	SAMP_DATE	7/19/2012	7/19/2012	
QC_TYPE	NM	NM	NM	NM	NM	UG/L	UG/L	UG/L	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	0.0	0.0	0.0	
PCT_SOLIDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U			0.5 U			0.5 U		
ETHYLBENZENE	0.5 U			0.5 U			0.5 U		
ISOPROPYLBENZENE	0.5 U			0.5 U			0.5 U		
M+P-XYLENES	1 U			1 U			1 U		
METHYL ACETATE	0.5 U			0.5 U			0.5 U		
METHYL CYCLOHEXANE	0.5 U			0.5 U			0.5 U		
METHYL TERT-BUTYL ETHER	0.5 U			0.5 U			0.5 U		
METHYLENE CHLORIDE	0.5 U			0.5 U			0.47 J	P	
O-XYLENE	0.5 U			0.5 U			0.5 U		
STYRENE	0.5 U			0.5 U			0.5 U		
TETRACHLOROETHENE	16			0.5 U			0.5 U		
TOLUENE	0.5 U			0.5 U			0.5 U		
TRANS-1,2-DICHLOROETHENE	0.5 U			0.5 U			0.5 U		
TRANS-1,3-DICHLOROPROPENE	0.5 U			0.5 U			0.5 U		
TRICHLOROETHENE	13			0.5 U			0.5 U		
TRICHLOROFLUOROMETHANE	0.5 U			0.5 U			0.5 U		
VINYL CHLORIDE	0.5 U			0.5 U			0.5 U		

PROJ_NO: 02751 SDG: D3470 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB135-GW-398		BP-VPB136-GW-461		BP-VPB136-GW-481		BP-VPB136-GW-501			
	LAB_ID	D3470-12	D3470-06	D3470-07	D3470-08	SAMP_DATE	7/19/2012	7/18/2012	7/18/2012	7/19/2012		
QC_TYPE	NM	NM	NM	NM	NM	UNITS	UG/KG	UG/KG	UG/KG	UG/KG		
PCT_SOLIDS	0.0	0.0	0.0	0.0	0.0	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,1,2,2-TETRACHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,1-DICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,1-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2,3-TRICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2,4-TRICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2-DIBROMOETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROPROPANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,3-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,4-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
1,4-DIOXANE	50 UR	50 UR	C	50 UR	50 UR	C	49.5 UR	50 UR	C	50 UR	50 UR	C
2-BUTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
2-HEXANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
4-METHYL-2-PENTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
ACETONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
BENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
BROMOCHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
BROMODICHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
BROMOFORM	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
BROMOMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CARBON DISULFIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CARBON TETRACHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CHLORODIBROMOMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CHLOROFORM	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CIS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CIS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	
CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U		2.5 U	2.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-521	
SDG: D3470	LAB_ID	D3470-09	
FRACTION: OV	SAMP_DATE	7/19/2012	
MEDIA: SOIL	QC_TYPE	NM	
	UNITS	UG/KG	
	PCT_SOLIDS	0.0	
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	12.5 U		
1,1,2,2-TETRACHLOROETHANE	12.5 U		
1,1,2-TRICHLOROETHANE	12.5 U		
1,1,2-TRICHLOROTRIFLUOROETHANE	12.5 U		
1,1-DICHLOROETHANE	12.5 U		
1,1-DICHLOROETHENE	12.5 U		
1,2,3-TRICHLOROBENZENE	12.5 U		
1,2,4-TRICHLOROBENZENE	12.5 U		
1,2-DIBROMO-3-CHLOROPROPANE	12.5 U		
1,2-DIBROMOETHANE	12.5 U		
1,2-DICHLOROBENZENE	12.5 U		
1,2-DICHLOROETHANE	12.5 U		
1,2-DICHLOROPROPANE	12.5 U		
1,3-DICHLOROBENZENE	12.5 U		
1,4-DICHLOROBENZENE	12.5 U		
1,4-DIOXANE	250 UR	C	
2-BUTANONE	60 U		
2-HEXANONE	60 U		
4-METHYL-2-PENTANONE	60 U		
ACETONE	60 U		
BENZENE	12.5 U		
BROMOCHLOROMETHANE	12.5 U		
BROMODICHLOROMETHANE	12.5 U		
BROMOFORM	12.5 U		
BROMOMETHANE	12.5 U		
CARBON DISULFIDE	12.5 U		
CARBON TETRACHLORIDE	12.5 U		
CHLOROBENZENE	12.5 U		
CHLORODIBROMOMETHANE	12.5 U		
CHLOROETHANE	12.5 U		
CHLOROFORM	12.5 U		
CHLOROMETHANE	12.5 U		
CIS-1,2-DICHLOROETHENE	12.5 U		
CIS-1,3-DICHLOROPROPENE	12.5 U		
CYCLOHEXANE	12.5 U		

PROJ_NO: 02751 SDG: D3470 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB135-GW-398		BP-VPB136-GW-461		BP-VPB136-GW-481		BP-VPB136-GW-501	
	LAB_ID	D3470-12	D3470-10	D3470-06	D3470-07	D3470-08	D3470-09	D3470-08	D3470-08	
SAMP_DATE	7/19/2012	7/19/2012	7/18/2012	7/18/2012	7/18/2012	7/19/2012	7/19/2012	7/19/2012	7/19/2012	
QC_TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
PCT_SOLIDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DUP_OF										
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
ETHYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
ISOPROPYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
M+P-XYLENES	5 U	5 U		5 U	5 U		4.95 U	5 U	5 U	
METHYL ACETATE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
METHYL CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
METHYL TERT-BUTYL ETHER	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
METHYLENE CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
O-XYLENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
STYRENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TETRACHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TOLUENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TRANS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TRICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	
VINYL CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.45 U	2.5 U	2.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-521		
SDG: D3470	LAB_ID	D3470-09		
FRACTION: OV	SAMP_DATE	7/19/2012		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	12.5 U	12.5 U		
ETHYLBENZENE	12.5 U	12.5 U		
ISOPROPYLBENZENE	12.5 U	12.5 U		
M+P-XYLENES	25 U	25 U		
METHYLACETATE	12.5 U	12.5 U		
METHYL CYCLOHEXANE	12.5 U	12.5 U		
METHYL TERT-BUTYL ETHER	12.5 U	12.5 U		
METHYLENE CHLORIDE	12.5 U	12.5 U		
O-XYLENE	12.5 U	12.5 U		
STYRENE	12.5 U	12.5 U		
TETRACHLOROETHENE	12.5 U	12.5 U		
TOLUENE	12.5 U	12.5 U		
TRANS-1,2-DICHLOROETHENE	12.5 U	12.5 U		
TRANS-1,3-DICHLOROPROPENE	12.5 U	12.5 U		
TRICHLOROETHENE	12.5 U	12.5 U		
TRICHLOROFLUOROMETHANE	12.5 U	12.5 U		
VINYL CHLORIDE	12.5 U	12.5 U		



TO: D. BRAYACK DATE: SEPTEMBER 21, 2012

FROM: JOSEPH KALINYAK COPIES: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
 NWIRP BETHPAGE, CTO WE62
 SDG D3507

SAMPLES: 8 / Aqueous / VOC

BP-TB-072012	BP-TT102D-072012	BP-TT102D2-072312
BP-VPB-TB-072012	BP-VPB-TB-072012-1	BP-VPB135-GW-478
BP-VPB136-GW-581	BP-VPB136-SW-072312	

7 / Aqueous Samples Analyzed as Soils / VOC

BP-VPB135-GW-418	BP-VPB135-GW-438	BP-VPB135-GW-458
BP-VPB136-DM-620	BP-VPB136-GW-561	BP-VPB136-GW-601
BP-VPB136-GW-621		

Overview

The sample set for NWIRP Bethpage, CTO WE62, SDG D3507 consisted of fifteen (15) aqueous samples including three (3) aqueous trip blank samples. Seven (7) of the samples had significant sediment in the samples and were analyzed by the laboratory as soils. All samples were analyzed for volatile organic compounds (VOC) as listed above. No field duplicate sample pairs were included in this Sample Delivery Group (SDG).

The samples were collected by Tetra Tech on July 20 and 23, 2012 and analyzed by ChemTech laboratory. The sample analyses were conducted in accordance with EPA SW-846 Method 8260C for VOCs, analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * • Laboratory Blank Results
- Laboratory Control Sample Recoveries
- Matrix Spike/Matrix Spike Duplicate Recoveries
- * • Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/17/12 and for instrument MSVOA_R on 07/23/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The CCV percent differences (%D) were greater than the 20% quality control limit for chloroethane and bromochloromethane for instrument MSVOA_R on 07/24/12 @ 12:15.

Affected samples:

BP-TB-072012	BP-TT102D-072012	BP-TT102D2-072312
BP-VPB-TB-072012	BP-VPB-TB-072012-1	BP-VPB135-GW-478
BP-VPB136-GW-581	BP-VPB136-SW-072312	

Action: The non-detected chloroethane and bromochloromethane results for the sample were qualified estimated, (UJ).

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The laboratory control sample (LCS)/LCS duplicate (LCS D) relative percent difference (RPD) was greater than the quality control limit for chloroethane for batch VR0724WBSD.

Affected samples:

BP-TB-072012	BP-TT102D-072012	BP-TT102D2-072312
BP-VPB-TB-072012	BP-VPB-TB-072012-1	BP-VPB135-GW-478
BP-VPB136-GW-581	BP-VPB136-SW-072312	

Action: The sample results for chloroethane were non-detected and therefore no validation action was necessary.

A matrix spike (MS) sample and MS duplicate (MSD) sample had %Rs that were non-compliant and MS/MSD relative percent differences (RPD) that exceeded the quality control limits for several analytes for VOC method 8260C. No validation action was taken as the spiked sample was not from this SDG.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

The VOC results for aqueous samples BP-VPB135-GW-418, BP-VPB135-GW-438, BP-VPB135-GW-458, BP-VPB136-DM-620, BP-VPB136-GW-561, BP-VPB136-GW-601, and BP-VPB136-GW-621 were reported in soil units of $\mu\text{g}/\text{kg}$ uncorrected for moisture content.

Sample BP-VPB136-GW-561 had a VOC identified in the tentatively identified compound (TIC) page for the laboratory sample analysis report. This information is included in Appendix B of this report.

TO: D. BRAYACK
SDG: D3507

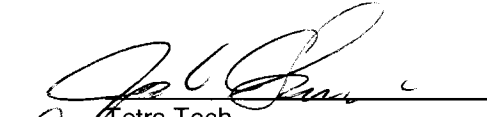
PAGE: 3


EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC results were qualified for RRF criteria and CCV %D non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).


Tetra Tech
Joseph Kalinyak
Chemist/Data Validator


Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751	NSAMPLE	BP-TB-072012	BP-TT102D-072012	BP-TT102D2-072312	BP-VPB135-GW-478				
SDG: D3507	LAB_ID	D3507-13	D3507-14	D3507-15	D3507-12				
FRACTION: OV	SAMP_DATE	7/20/2012	7/20/2012	7/23/2012	7/23/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	1.4	
1,1-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMOETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROPROPANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,3-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DICHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DIOXANE	10 UR	10 UR	C	10 UR	10 UR	C	10 UR	10 UR	C
2-BUTANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
2-HEXANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
4-METHYL-2-PENTANONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ACETONE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	16	
BENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOCHLOROMETHANE	0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C
BROMODICHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
BROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON DISULFIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CARBON TETRACHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLORODIBROMOMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROETHANE	0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C
CHLOROFORM	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-581	BP-VPB136-SW-072312	BP-VPB-TB-072012	BP-VPB-TB-072012-1				
SDG: D3507	LAB_ID	D3507-03	D3507-05	D3507-01	D3507-08				
FRACTION: OV	SAMP_DATE	7/23/2012	7/23/2012	7/20/2012	7/20/2012				
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/L	UG/L	UG/L	UG/L				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2,2-TETRACHLOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,1-DICHLOROETHENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2,3-TRICHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2,4-TRICHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DIBROMOETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,2-DICHLOROPROPANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,3-DICHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DICHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
1,4-DIOXANE	10 UR	C		10 UR	10 UR	C	10 UR	10 UR	C
2-BUTANONE	2.5 U			2.5 U	2.5 U		2.5 U	2.5 U	
2-HEXANONE	2.5 U			2.5 U	2.5 U		2.5 U	2.5 U	
4-METHYL-2-PENTANONE	2.5 U			2.5 U	2.5 U		2.5 U	2.5 U	
ACETONE	9			2.5 U	2.5 U		2.5 U	2.5 U	
BENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
BROMOCHLOROMETHANE	0.5 UJ	C		0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C
BROMODICHLOROMETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
BROMOFORM	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
BROMOMETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CARBON DISULFIDE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CARBON TETRACHLORIDE	0.5 U			2.4	0.5 U		0.5 U	0.5 U	
CHLOROBENZENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CHLORODIBROMOMETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROETHANE	0.5 UJ	C		0.5 UJ	0.5 UJ	C	0.5 UJ	0.5 UJ	C
CHLOROFORM	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CHLOROMETHANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CIS-1,3-DICHLOROPROPENE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	
CYCLOHEXANE	0.5 U			0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751 SDG: D3507 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-TB-072012		BP-TT102D-072012		BP-TT102D2-072312		BP-VPB135-GW-478				
	LAB_ID	SAMP_DATE	D3507-13	7/20/2012	D3507-14	7/20/2012	D3507-15	7/23/2012	D3507-12	7/23/2012			
QC_TYPE	NM	UG/L	NM	UG/L	NM	UG/L	NM	UG/L	NM	UG/L			
PCT_SOLIDS	0.0	UG/L	0.0	UG/L	0.0	UG/L	0.0	UG/L	0.0	UG/L	0.0		
DUP_OF		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ETHYLBENZENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ISOPROPYLBENZENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
M+P-XYLENES		1 U	1 U		1 U	1 U		1 U	1 U		1 U	1 U	
METHYL ACETATE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL CYCLOHEXANE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL TERT-BUTYL ETHER		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYLENE CHLORIDE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
O-XYLENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
STYRENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TETRACHLOROETHENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TOLUENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,2-DICHLOROETHENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,3-DICHLOROPROPENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROETHENE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROFLUOROMETHANE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
VINYL CHLORIDE		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751 SDG: D3507 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB136-GW-581		BP-VPB136-SW-072312		BP-VPB-TB-072012		BP-VPB-TB-072012-1						
	LAB_ID	D3507-03	D3507-05	D3507-01	D3507-08	SAMP_DATE	7/23/2012	7/20/2012	7/20/2012	QC_TYPE	NM	UG/L	UG/L	0.0	
UNITS	NM	NM	NM	NM	PCT_SOLIDS	0.0	0.0	0.0	DUP_OF	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ETHYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
ISOPROPYLBENZENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
M+P-XYLENES	1 U	1 U		1 U	1 U		1 U	1 U		1 U	1 U		1 U	1 U	
METHYL ACETATE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL CYCLOHEXANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYL TERT-BUTYL ETHER	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
METHYLENE CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
O-XYLENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
STYRENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TETRACHLOROETHENE	1.5	1.5		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TOLUENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,2-DICHLOROETHENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRANS-1,3-DICHLOROPROPENE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROETHENE	2.6	2.6		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
TRICHLOROFLUOROMETHANE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	
VINYL CHLORIDE	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	

PROJ_NO: 02751 SDG: D3507 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB136-GW-561		BP-VPB136-GW-601		BP-VPB136-GW-621		
	LAB_ID	D3507-02	D3507-04	D3507-07	LAB_ID	D3507-04	D3507-07	LAB_ID	D3507-07
SAMP_DATE	7/20/2012	7/23/2012	7/23/2012	7/23/2012	SAMP_DATE	7/20/2012	7/23/2012	SAMP_DATE	7/23/2012
QC_TYPE	NM	NM	NM	NM	QC_TYPE	NM	NM	QC_TYPE	NM
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UNITS	UG/KG	UG/KG	UNITS	UG/KG
PCT_SOLIDS	0.0	0.0	0.0	0.0	PCT_SOLIDS	0.0	0.0	PCT_SOLIDS	0.0
DUP_OF					DUP_OF			DUP_OF	
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,1,2,2-TETRACHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,1-DICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,1-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2,3-TRICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2,4-TRICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2-DIBROMOETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,2-DICHLOROPROPANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,3-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,4-DICHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
1,4-DIOXANE	50 UR	50 UR	C	50 UR	50 UR	C	50 UR	50 UR	C
2-BUTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
2-HEXANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
4-METHYL-2-PENTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
ACETONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	
BENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BROMOCHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BROMODICHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BROMOFORM	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
BROMOMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CARBON DISULFIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CARBON TETRACHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CHLOROBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CHLORODIBROMOMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CHLOROETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CHLOROFORM	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CHLOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CIS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CIS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	

PROJ_NO: 02751 SDG: D3507 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB135-GW-418		BP-VPB135-GW-438		BP-VPB135-GW-458		BP-VPB136-DM-620						
	LAB_ID	SAMP_DATE	QC_TYPE	UNITS	PCT_SOLIDS	DUP_OF	RESULT	QLCD	VQL	RESULT	QLCD	VQL	RESULT	QLCD	VQL
	D3507-09	7/20/2012	NM	UG/KG	0.0		2.5 U		12.5 U			2.5 U		2.45 U	
DICHLORODIFLUOROMETHANE							2.5 U		12.5 U			2.5 U		2.45 U	
ETHYLBENZENE							2.5 U		12.5 U			2.5 U		2.45 U	
ISOPROPYLBENZENE							2.5 U		12.5 U			2.5 U		2.45 U	
M+P-XYLENES							5 U		25 U			5 U		4.95 U	
METHYL ACETATE							2.5 U		12.5 U			2.5 U		2.45 U	
METHYL CYCLOHEXANE							2.5 U		12.5 U			2.5 U		2.45 U	
METHYL TERT-BUTYL ETHER							2.5 U		12.5 U			2.5 U		2.45 U	
METHYLENE CHLORIDE							2.7 J	P	16 J	P		2.5 J	P	2.8 J	P
O-XYLENE							2.5 U		12.5 U			2.5 U		2.45 U	
STYRENE							2.5 U		12.5 U			2.5 U		2.45 U	
TETRACHLOROETHENE							2.5 U		12.5 U			2.5 U		2.45 U	
TOLUENE							2.5 U		12.5 U			2.5 U		2.45 U	
TRANS-1,2-DICHLOROETHENE							2.5 U		12.5 U			2.5 U		2.45 U	
TRANS-1,3-DICHLOROPROPENE							2.5 U		12.5 U			2.5 U		2.45 U	
TRICHLOROETHENE							1.5 J	P	12.5 U			2.5 U		2.45 U	
TRICHLOROFLUOROMETHANE							2.5 U		12.5 U			2.5 U		2.45 U	
VINYL CHLORIDE							2.5 U		12.5 U			2.5 U		2.45 U	

PROJ_NO: 02751 SDG: D3507 FRACTION: OV MEDIA: SOIL	NSAMPLE		BP-VPB136-GW-561		BP-VPB136-GW-601		BP-VPB136-GW-621		
	LAB_ID	D3507-02	D3507-04	D3507-07	SAMP_DATE	7/20/2012	7/23/2012	7/23/2012	
QC_TYPE	NM	NM	NM	NM	UNITS	UG/KG	UG/KG	UG/KG	
PCT_SOLIDS	0.0	0.0	0.0	0.0	DUP_OF				
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ETHYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ISOPROPYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
M+P-XYLENES	5 U	5 U		5 U	5 U		5 U	5 U	
METHYL ACETATE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL TERT-BUTYL ETHER	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYLENE CHLORIDE	2.3 J	2.3 J	P	1.9 J	1.9 J	P	2.6 J	2.6 J	P
O-XYLENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
STYRENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TETRACHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TOLUENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
VINYL CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	



TO: D. BRAYACK **DATE:** SEPTEMBER 4, 2012

FROM: JOSEPH KALINYAK **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
 INORGANIC DATA VALIDATION – TOC
 NWIRP BETHPAGE, CTO WE62
 SDG D3596

SAMPLES: 3 / Aqueous / VOC

BP-VPB-TB-072412 BP-VPB-TB-072412-1 BP-VPB135-GW-578

12 / Aqueous Samples Analyzed as Soils / VOC

BP-VPB135-GW-518 BP-VPB135-GW-538 BP-VPB135-GW-558
 BP-VPB135-GW-598 BP-VPB135-GW-618 BP-VPB135-GW-638
 BP-VPB135-GW-658 BP-VPB136-GW-641 BP-VPB136-GW-661
 BP-VPB136-GW-681 BP-VPB136-GW-701 BP-VPB136-GW-741

2 / Aqueous / TOC

BP-VPB135-SO-498 BP-VPB136-SB-761

Overview

The sample set for NWIRP Bethpage, CTO WE62, SDG D3596 consisted of fifteen (15) aqueous samples including two (2) aqueous trip blank samples and two (2) soil samples. Twelve (12) of the aqueous samples had significant sediment in the samples and were analyzed by the laboratory as soils. All aqueous samples were analyzed for volatile organic compounds (VOC) and the two (2) soil samples were analyzed for total organic compounds (TOC), as listed above. No field duplicate sample pairs were included in this Sample Delivery Group (SDG).

The samples were collected by Tetra Tech on July 24, 25, and 26, 2012 and analyzed by ChemTech laboratory. The sample analyses were conducted in accordance with EPA SW-846 Method 8260C for VOCs and EPA Method 9060 for TOCs, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * • Laboratory Blank Results
- Laboratory Control Sample Recoveries
- Matrix Spike/Matrix Spike Duplicate Recoveries
- * • Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Compound Identification

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- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/17/12 and for instrument MSVOA_R on 07/26/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The CCV percent differences (%D) were greater than the 20% quality control limit for 1,1,2,2-tetrachloroethane for instrument MSVOA_F on 07/30/12 @ 12:19.

Affected samples:

BP-VPB135-GW-518	BP-VPB135-GW-538	BP-VPB135-GW-558
BP-VPB135-GW-598	BP-VPB135-GW-618	BP-VPB135-GW-638
BP-VPB135-GW-658	BP-VPB136-GW-641	BP-VPB136-GW-661
BP-VPB136-GW-681	BP-VPB136-GW-701	BP-VPB136-GW-741

Action: The non-detected 1,1,2,2-tetrachloroethane results for the sample were qualified estimated, (UJ).

The CCV %Ds were greater than the 20% quality control limit for cyclohexane and carbon tetrachloride for instrument MSVOA_R on 07/30/12 @ 11:02.

Affected samples:

BP-VPB135-GW-578	BP-VPB-TB-072412	BP-VPB-TB-072412-1
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Action: The non-detected cyclohexane and carbon tetrachloride results for the sample were qualified estimated, (UJ).

TOC

No issues were identified.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The laboratory control sample (LCS) %R and the LCS/LCS duplicate (LCSD) relative percent difference (RPD) were greater than the quality control limits for bromochloromethane for batch VR0730WBSD.

Affected samples:

BP-VPB135-GW-578	BP-VPB-TB-072412	BP-VPB-TB-072412-1
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Action: The sample results for chloroethane were non-detected and therefore no validation action was necessary.

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The matrix spike (MS)/MS duplicate (MSD) sample RPDs were greater than the quality control limits for several analytes. No validation action was taken as the spiked sample was not from this SDG and validation action was not taken for RPD non-compliances alone.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

Sample BP-VPB135-GW-578 was analyzed at a dilution of 5X, per the narrative due to a foamy bad matrix, resulting in elevated reported concentrations for non-detected VOC analytes.

The VOC results for aqueous samples BP-VPB135-GW-518, BP-VPB135-GW-538, BP-VPB135-GW-558, BP-VPB135-GW-598, BP-VPB135-GW-618, BP-VPB135-GW-638, BP-VPB135-GW-658, BP-VPB136-GW-641, BP-VPB136-GW-661, BP-VPB136-GW-681, BP-VPB136-GW-701, and BP-VPB136-GW-741 were reported in soil units of $\mu\text{g}/\text{kg}$ uncorrected for moisture content.

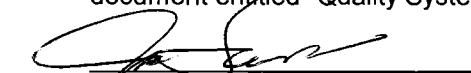
Sample BP-VPB135-GW-578 had VOCs identified in the tentatively identified compound (TIC) page of the laboratory sample analysis report. The sample VOC TIC information is included in Appendix B of this report.

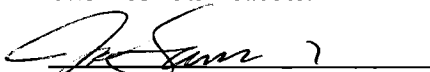
EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC results were qualified for RRF criteria and CCV %D non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).


Tetra Tech
Joseph Kalinyak
Chemist/Data Validator


Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751	NSAMPLE	BP-VPB135-GW-578	BP-VPB-TB-072412	BP-VPB-TB-072412-1					
SDG: D3596	LAB_ID	D3596-13	D3596-01	D3596-08					
FRACTION: OV	SAMP_DATE	7/25/2012	7/24/2012	7/24/2012					
MEDIA: WATER	QC_TYPE	NM	NM	NM					
	UNITS	UG/L	UG/L	UG/L					
	PCT_SOLIDS	0.0	0.0	0.0					
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,1,2,2-TETRACHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,1-DICHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,1-DICHLOROETHENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2,3-TRICHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2,4-TRICHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2-DIBROMOETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2-DICHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2-DICHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,2-DICHLOROPROPANE	2.5 U	2.5 U			0.5 U			0.5 U	
1,3-DICHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,4-DICHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
1,4-DIOXANE	50 UR	50 UR	C		10 UR	C		10 UR	C
2-BUTANONE	12.5 U	12.5 U			2.5 U			2.5 U	
2-HEXANONE	12.5 U	12.5 U			2.5 U			2.5 U	
4-METHYL-2-PENTANONE	12.5 U	12.5 U			2.5 U			2.5 U	
ACETONE	12.5 U	12.5 U			2.5 U			2.5 U	
BENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
BROMOCHLOROMETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
BROMODICHLOROMETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
BROMOFORM	2.5 U	2.5 U			0.5 U			0.5 U	
BROMOMETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
CARBON DISULFIDE	2.5 U	2.5 U			0.5 U			0.5 U	
CARBON TETRACHLORIDE	2.5 UJ	2.5 UJ	C		0.5 UJ	C		0.5 UJ	C
CHLOROBENZENE	2.5 U	2.5 U			0.5 U			0.5 U	
CHLORODIBROMOMETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
CHLOROETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
CHLOROFORM	2.5 U	2.5 U			0.5 U			0.5 U	
CHLOROMETHANE	2.5 U	2.5 U			0.5 U			0.5 U	
CIS-1,2-DICHLOROETHENE	2.5 U	2.5 U			0.5 U			0.5 U	
CIS-1,3-DICHLOROPROPENE	2.5 U	2.5 U			0.5 U			0.5 U	
CYCLOHEXANE	2.5 UJ	2.5 UJ	C		0.5 UJ	C		0.5 UJ	C

PROJ_NO: 02751 SDG: D3596 FRACTION: OV MEDIA: WATER	NSAMPLE		BP-VPB135-GW-578		BP-VPB-TB-072412		BP-VPB-TB-072412-1	
	LAB_ID	D3596-13	LAB_ID	D3596-01	LAB_ID	D3596-08	LAB_ID	D3596-08
	SAMP_DATE	7/25/2012	SAMP_DATE	7/24/2012	SAMP_DATE	7/24/2012	SAMP_DATE	7/24/2012
	QC_TYPE	NM	QC_TYPE	NM	QC_TYPE	NM	QC_TYPE	NM
	UNITS	UG/L	UNITS	UG/L	UNITS	UG/L	UNITS	UG/L
	PCT_SOLIDS	0.0	PCT_SOLIDS	0.0	PCT_SOLIDS	0.0	PCT_SOLIDS	0.0
	DUP_OF		DUP_OF		DUP_OF		DUP_OF	
PARAMETER	RESULT	VQL	RESULT	VQL	RESULT	VQL	RESULT	VQL
		QLCD		QLCD		QLCD		QLCD
DICHLORODIFLUOROMETHANE	2.5 U		2.5 U		0.5 U		0.5 U	
ETHYLBENZENE	2.4 J	P	2.5 U		0.5 U		0.5 U	
ISOPROPYLBENZENE	2.5 U		2.5 U		0.5 U		0.5 U	
M+P-XYLENES	5 U		5 U		1 U		1 U	
METHYL ACETATE	2.5 U		2.5 U		0.5 U		0.5 U	
METHYL CYCLOHEXANE	2.5 U		2.5 U		0.5 U		0.5 U	
METHYL TERT-BUTYL ETHER	2.5 U		2.5 U		0.5 U		0.5 U	
METHYLENE CHLORIDE	2.5 U		2.5 U		0.5 U		0.5 U	
O-XYLENE	2.5 U		2.5 U		0.5 U		0.5 U	
STYRENE	2.5 U		2.5 U		0.5 U		0.5 U	
TETRACHLOROETHENE	2.5 U		2.5 U		0.5 U		0.5 U	
TOLUENE	2.5 U		2.5 U		0.5 U		0.5 U	
TRANS-1,2-DICHLOROETHENE	2.5 U		2.5 U		0.5 U		0.5 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U		2.5 U		0.5 U		0.5 U	
TRICHLOROETHENE	2.5 U		2.5 U		0.5 U		0.5 U	
TRICHLOROFLUOROMETHANE	2.5 U		2.5 U		0.5 U		0.5 U	
VINYL CHLORIDE	2.5 U		2.5 U		0.5 U		0.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB135-GW-518	BP-VPB135-GW-538	BP-VPB135-GW-558	BP-VPB135-GW-598				
SDG: D3596	LAB_ID	D3596-10	D3596-11	D3596-12	D3596-14				
FRACTION: OV	SAMP_DATE	7/24/2012	7/24/2012	7/25/2012	7/26/2012				
MEDIA: SOIL	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,1,2,2-TETRACHLOROETHANE	12 UJ	12 UJ	C	12 UJ	12 UJ	C	2.5 UJ	2.5 UJ	C
1,1,2-TRICHLOROETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,1-DICHLOROETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,1-DICHLOROETHENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2,3-TRICHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2,4-TRICHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2-DIBROMOETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2-DICHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2-DICHLOROETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,2-DICHLOROPROPANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,3-DICHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,4-DICHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
1,4-DIOXANE	240 UR	240 UR	C	240 UR	240 UR	C	50 UR	50 UR	C
2-BUTANONE	60 U	60 U		60 U	60 U		12.5 U	12.5 U	
2-HEXANONE	60 U	60 U		60 U	60 U		12.5 U	12.5 U	
4-METHYL-2-PENTANONE	60 U	60 U		60 U	60 U		12.5 U	12.5 U	
ACETONE	60 U	60 U		60 U	60 U		64	12.5 U	
BENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
BROMOCHLOROMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
BROMODICHLOROMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
BROMOFORM	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
BROMOMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CARBON DISULFIDE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CARBON TETRACHLORIDE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CHLOROBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CHLORODIBROMOMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CHLOROETHANE	12 U	12 U		12 U	12 U		4.8 J	2.5 U	P
CHLOROFORM	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CHLOROMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CIS-1,2-DICHLOROETHENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CIS-1,3-DICHLOROPROPENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	
CYCLOHEXANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB135-GW-618	BP-VPB135-GW-638	BP-VPB135-GW-658	BP-VPB136-GW-641														
SDG: D3596	LAB_ID	D3596-15	D3596-16	D3596-17	D3596-02														
FRACTION: OV	SAMP_DATE	7/26/2012	7/26/2012	7/26/2012	7/24/2012														
MEDIA: SOIL	QC_TYPE	NM	NM	NM	NM														
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG														
	PCT_SOLIDS	0.0	0.0	0.0	0.0														
	DUP_OF																		
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD										
1,1,1-TRICHLOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,1,2,2-TETRACHLOROETHANE	12.5 UJ	12.5 UJ	C					2.5 UJ	C	12.5 UJ									
1,1,2-TRICHLOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,1,2-TRICHLOROTRIFLUOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,1-DICHLOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,1-DICHLOROETHENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2,3-TRICHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2,4-TRICHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2-DIBROMO-3-CHLOROPROPANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2-DIBROMOETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2-DICHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2-DICHLOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,2-DICHLOROPROPANE	12.5 U	12.5 U						2.5 U		12.5 U									
1,3-DICHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,4-DICHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
1,4-DIOXANE	250 UR	250 UR	C					50 UR	C	250 UR									
2-BUTANONE	60 U	60 U						12.5 U		60 U									
2-HEXANONE	60 U	60 U						12.5 U		60 U									
4-METHYL-2-PENTANONE	60 U	60 U						12.5 U		60 U									
ACETONE	60 U	60 U						12.5 U		60 U									
BENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
BROMOCHLOROMETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
BROMODICHLOROMETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
BROMOFORM	12.5 U	12.5 U						2.5 U		12.5 U									
BROMOMETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
CARBON DISULFIDE	12.5 U	12.5 U						2.5 U		12.5 U									
CARBON TETRACHLORIDE	12.5 U	12.5 U						2.5 U		12.5 U									
CHLOROBENZENE	12.5 U	12.5 U						2.5 U		12.5 U									
CHLORODIBROMOMETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
CHLOROETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
CHLOROFORM	12.5 U	12.5 U						2.5 U		12.5 U									
CHLOROMETHANE	12.5 U	12.5 U						2.5 U		12.5 U									
CIS-1,2-DICHLOROETHENE	12.5 U	12.5 U						2.5 U		12.5 U									
CIS-1,3-DICHLOROPROPENE	12.5 U	12.5 U						2.5 U		12.5 U									
CYCLOHEXANE	12.5 U	12.5 U						2.5 U		12.5 U									

PROJ_NO: 02751 SDG: D3596 FRACTION: OV MEDIA: SOIL	BP-VPB136-GW-661		BP-VPB136-GW-681		BP-VPB136-GW-701		BP-VPB136-GW-741						
	NSAMPLE LAB_ID SAMP_DATE QC_TYPE UNITS PCT_SOLIDS DUP_OF	D3596-03 7/24/2012 NM UG/KG 0.0	D3596-04 7/24/2012 NM UG/KG 0.0	D3596-05 7/24/2012 NM UG/KG 0.0	D3596-06 7/25/2012 NM UG/KG 0.0	RESULT	VOL	QLCD	RESULT	VOL	QLCD	RESULT	VOL
PARAMETER		RESULT	VOL	QLCD	RESULT	VOL	QLCD	RESULT	VOL	QLCD	RESULT	VOL	QLCD
1,1,1-TRICHLOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,1,2,2-TETRACHLOROETHANE		2.5 UJ	2.5 UJ	C		2.5 UJ	C		2.5 UJ	C		2.5 UJ	C
1,1,2-TRICHLOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,1-DICHLOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,1-DICHLOROETHENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2,3-TRICHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2,4-TRICHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2-DIBROMO-3-CHLOROPROPANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2-DIBROMOETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2-DICHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2-DICHLOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,2-DICHLOROPROPANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,3-DICHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,4-DICHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
1,4-DIOXANE		50 UR	50 UR	C		50 UR	C		50 UR	C		50 UR	C
2-BUTANONE		12.5 U	12.5 U			12.5 U			12.5 U			12.5 U	
2-HEXANONE		12.5 U	12.5 U			12.5 U			12.5 U			12.5 U	
4-METHYL-2-PENTANONE		12.5 U	12.5 U			12.5 U			12.5 U			12.5 U	
ACETONE		12.5 U	12.5 U			12.5 U			12.5 U			12.5 U	
BENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
BROMOCHLOROMETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
BROMODICHLOROMETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
BROMOFORM		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
BROMOMETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CARBON DISULFIDE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CARBON TETRACHLORIDE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CHLOROBENZENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CHLORODIBROMOMETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CHLOROETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CHLOROFORM		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CHLOROMETHANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CIS-1,2-DICHLOROETHENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CIS-1,3-DICHLOROPROPENE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	
CYCLOHEXANE		2.5 U	2.5 U			2.5 U			2.5 U			2.5 U	

PROJ_NO: 02751 SDG: D3596 FRACTION: OV MEDIA: SOIL	BP-VPB135-GW-518		BP-VPB135-GW-538		BP-VPB135-GW-558		BP-VPB135-GW-598					
	NSAMPLE LAB_ID SAMP_DATE QC_TYPE UNITS PCT_SOLIDS DUP_OF	D3596-10 7/24/2012 NM UG/KG 0.0	D3596-11 7/24/2012 NM UG/KG 0.0	D3596-12 7/25/2012 NM UG/KG 0.0	D3596-14 7/26/2012 NM UG/KG 0.0	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
ETHYLBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
ISOPROPYLBENZENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
M+P-XYLENES	24 U	24 U		24 U	24 U		5 U	5 U		5 U	5 U	
METHYL ACETATE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL CYCLOHEXANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL TERT-BUTYL ETHER	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYLENE CHLORIDE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
O-XYLENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
STYRENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TETRACHLOROETHENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TOLUENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,2-DICHLOROETHENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,3-DICHLOROPROPENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROETHENE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROFLUOROMETHANE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	
VINYL CHLORIDE	12 U	12 U		12 U	12 U		2.5 U	2.5 U		2.5 U	2.5 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB136-GW-661	BP-VPB136-GW-681	BP-VPB136-GW-701	BP-VPB136-GW-741				
SDG: D3596	LAB_ID	D3596-03	D3596-04	D3596-05	D3596-06				
FRACTION: OV	SAMP_DATE	7/24/2012	7/24/2012	7/24/2012	7/25/2012				
MEDIA: SOIL	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUPLICATE								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
DICHLORODIFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ETHYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
ISOPROPYLBENZENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
M+P-XYLENES	5 U	5 U		5 U	5 U		5 U	5 U	
METHYL ACETATE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL CYCLOHEXANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYL TERT-BUTYL ETHER	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
METHYLENE CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
O-XYLENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
STYRENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TETRACHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TOLUENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,2-DICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROETHENE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	
VINYL CHLORIDE	2.5 U	2.5 U		2.5 U	2.5 U		2.5 U	2.5 U	



TO: D. BRAYACK DATE: SEPTEMBER 5, 2012

FROM: JOSEPH KALINYAK COPIES: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
 NWIRP BETHPAGE, CTO WE62
 SDG D3634

SAMPLES: 2 / Aqueous / VOC
 BP-VPB-TB-072712 BP-VPB-TB-072712-1

3 / Aqueous Samples Analyzed as Soils / VOC
 BP-VPB135-GW-678 BP-VPB135-GW-698 BP-VPB136-GW-802

1 / Drilling Mud Sample / VOC
 BP-VPB135-DM-557

Overview

The sample set for NWIRP Bethpage, CTO WE62, SDG D3634 consisted of five (5) aqueous samples including two (2) aqueous trip blank samples and one (1) drilling mud sample. Three (3) of the aqueous samples and the drilling mud sample had significant sediment and were analyzed by the laboratory as soils. All samples were analyzed for volatile organic compounds (VOC) as listed above. No field duplicate sample pairs were included in this Sample Delivery Group (SDG).

The samples were collected by Tetra Tech on July 27 and 31, 2012 and analyzed by ChemTech laboratory. The sample analyses were conducted in accordance with EPA SW-846 Method 8260C for VOCs, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * • Laboratory Blank Results
- * • Laboratory Control Sample Recoveries
- * • Matrix Spike/Matrix Spike Duplicate Recoveries
- * • Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

TO: D. BRAYACK
SDG: D3596

PAGE: 2

VOC

The initial calibration average relative response factor (RRF) was less than the 0.05 criteria for 1,4-dioxane for instrument MSVOA_F on 07/17/12 and for instrument MSVOA_N on 07/23/12 and for all continuing calibration verifications (CCVs).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The CCV percent differences (%D) were greater than the 20% quality control limit for dichlorodifluoromethane and methyl acetate for instrument MSVOA_N on 08/01/12 @ 13:39.

Affected samples: BP-VPB-TB-072712 and BP-VPB-TB-072712-1

Action: The non-detected dichlorodifluoromethane and methyl acetate results for the samples were qualified estimated, (UJ).

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Fifty-two (52) analytes were reported for VOCs for Method 8260C.

Non-detected sample results were reported to the LOD.

The VOC results for samples BP-VPB135-GW-678, BP-VPB135-GW-698, BP-VPB136-GW-802, and BP-VPB135-DM-557 were reported in soil units of $\mu\text{g}/\text{kg}$ uncorrected for moisture content.

Samples BP-VPB135-GW-678 and BP-VPB135-GW-698 had the VOC decane identified in the tentatively identified compound (TIC) page of the laboratory sample analysis report. The sample VOC TIC information is included in Appendix B of this report.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample VOC results were qualified for RRF criteria and CCV %D non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Detection (LOD) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

TO: D. BRAYACK
SDG: D3596

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The data for these analyses were reviewed with reference to the USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C SOP #HW-24 Revision #2 August 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).



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Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751	NSAMPLE	BP-VPB135-DM-557	BP-VPB135-GW-678	BP-VPB135-GW-698	BP-VPB136-GW-802				
SDG: D3634	LAB_ID	D3634-04	D3634-02	D3634-03	D3634-06				
FRACTION: OV	SAMP_DATE	7/31/2012	7/27/2012	7/27/2012	7/27/2012				
MEDIA: SOIL	QC_TYPE	NM	NM	NM	NM				
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG				
	PCT_SOLIDS	0.0	0.0	0.0	0.0				
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,1,2,2-TETRACHLOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,1,2-TRICHLOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,1,2-TRICHLOROTRIFLUOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,1-DICHLOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,1-DICHLOROETHENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2,3-TRICHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2,4-TRICHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2-DIBROMO-3-CHLOROPROPANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2-DIBROMOETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2-DICHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2-DICHLOROETHANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,2-DICHLOROPROPANE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,3-DICHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,4-DICHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.45 U		2.5 U	2.5 U	12 U
1,4-DIOXANE	49.5 UR	49.5 UR	C	49.5 UR	50 UR	C	240 UR	240 UR	C
2-BUTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	60 U
2-HEXANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	60 U
4-METHYL-2-PENTANONE	12.5 U	12.5 U		12.5 U	12.5 U		12.5 U	12.5 U	60 U
ACETONE	12.5 U	12.5 U		12.5 U	19 J	P	78 J	78 J	P
BENZENE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
BROMOCHLOROMETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
BROMODICHLOROMETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
BROMOFORM	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
BROMOMETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CARBON DISULFIDE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CARBON TETRACHLORIDE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CHLOROBENZENE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CHLORODIBROMOMETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CHLOROETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CHLOROFORM	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CHLOROMETHANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CIS-1,2-DICHLOROETHENE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CIS-1,3-DICHLOROPROPENE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U
CYCLOHEXANE	2.45 U	2.45 U		2.45 U	2.5 U		2.5 U	2.5 U	12 U

PROJ_NO: 02751	NSAMPLE	BP-VPB135-DM-557	BP-VPB135-GW-678	BP-VPB135-GW-698	BP-VPB136-GW-802						
SDG: D3634	LAB_ID	D3634-04	D3634-02	D3634-03	D3634-06						
FRACTION: OV	SAMP_DATE	7/31/2012	7/27/2012	7/27/2012	7/27/2012						
MEDIA: SOIL	QC_TYPE	NM	NM	NM	NM						
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG						
	PCT_SOLIDS	0.0	0.0	0.0	0.0						
	DUP_OF										
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD		
DICHLORODIFLUOROMETHANE	2.45 U	2.45 U						2.5 U		12 U	
ETHYLBENZENE	2.45 U	2.45 U						2.5 U		12 U	
ISOPROPYLBENZENE	2.45 U	2.45 U						2.5 U		12 U	
M+P-XYLENES	4.95 U	4.95 U						5 U		24 U	
METHYL ACETATE	2.45 U	2.45 U						2.5 U		12 U	
METHYL CYCLOHEXANE	2.45 U	2.45 U						2.5 U		12 U	
METHYL TERT-BUTYL ETHER	2.45 U	2.45 U						2.5 U		12 U	
METHYLENE CHLORIDE	2.45 U	2.45 U						2.5 U		12 U	
O-XYLENE	2.45 U	2.45 U						2.5 U		12 U	
STYRENE	2.45 U	2.45 U						2.5 U		12 U	
TETRACHLOROETHENE	2.45 U	2.45 U						2.5 U		12 U	
TOLUENE	2.45 U	2.45 U						2.5 U		12 U	
TRANS-1,2-DICHLOROETHENE	2.45 U	2.45 U						2.5 U		12 U	
TRANS-1,3-DICHLOROPROPENE	2.45 U	2.45 U						2.5 U		12 U	
TRICHLOROETHENE	2.45 U	2.45 U						2.5 U		12 U	
TRICHLOROFLUOROMETHANE	2.45 U	2.45 U						2.5 U		12 U	
VINYL CHLORIDE	2.45 U	2.45 U						2.5 U		12 U	

PROJ_NO: 02751	NSAMPLE	BP-VPB-TB-072712	BP-VPB-TB-072712-1
SDG: D3634	LAB_ID	D3634-05	D3634-01
FRACTION: OV	SAMP_DATE	7/27/2012	7/27/2012
MEDIA: WATER	QC_TYPE	NM	NM
	UNITS	UG/L	UG/L
	PCT_SOLIDS	0.0	0.0
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U
1,1,2,2-TETRACHLOROETHANE	2.5 U	2.5 U	2.5 U
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHANE	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHENE	2.5 U	2.5 U	2.5 U
1,2,3-TRICHLOROBENZENE	2.5 U	2.5 U	2.5 U
1,2,4-TRICHLOROBENZENE	2.5 U	2.5 U	2.5 U
1,2-DIBROMO-3-CHLOROPROPANE	2.5 U	2.5 U	2.5 U
1,2-DIBROMOETHANE	2.5 U	2.5 U	2.5 U
1,2-DICHLOROBENZENE	2.5 U	2.5 U	2.5 U
1,2-DICHLOROETHANE	2.5 U	2.5 U	2.5 U
1,2-DICHLOROPROPANE	2.5 U	2.5 U	2.5 U
1,3-DICHLOROBENZENE	2.5 U	2.5 U	2.5 U
1,4-DICHLOROBENZENE	2.5 U	2.5 U	2.5 U
1,4-DIOXANE	50 UR	C	50 UR C
2-BUTANONE	12.5 U	12.5 U	12.5 U
2-HEXANONE	12.5 U	12.5 U	12.5 U
4-METHYL-2-PENTANONE	12.5 U	12.5 U	12.5 U
ACETONE	12.5 U	12.5 U	12.5 U
BENZENE	2.5 U	2.5 U	2.5 U
BROMOCHLOROMETHANE	2.5 U	2.5 U	2.5 U
BROMODICHLOROMETHANE	2.5 U	2.5 U	2.5 U
BROMOFORM	2.5 U	2.5 U	2.5 U
BROMOMETHANE	2.5 U	2.5 U	2.5 U
CARBON DISULFIDE	2.5 U	2.5 U	2.5 U
CARBON TETRACHLORIDE	2.5 U	2.5 U	2.5 U
CHLOROBENZENE	2.5 U	2.5 U	2.5 U
CHLORODIBROMOMETHANE	2.5 U	2.5 U	2.5 U
CHLOROETHANE	2.5 U	2.5 U	2.5 U
CHLOROFORM	2.5 U	2.5 U	2.5 U
CHLOROMETHANE	2.5 U	2.5 U	2.5 U
CIS-1,2-DICHLOROETHENE	2.5 U	2.5 U	2.5 U
CIS-1,3-DICHLOROPROPENE	2.5 U	2.5 U	2.5 U
CYCLOHEXANE	2.5 U	2.5 U	2.5 U

VOC

The following compounds were detected in the associated method blank #1207393-02A at the maximum concentration as indicated below affecting the sample:

<u>Compound</u>	<u>Maximum Conc. ($\mu\text{g}/\text{m}^3$)</u>	<u>Action Level ($\mu\text{g}/\text{m}^3$)</u>
Methylene chloride	0.12	1.20
1,2,4-Trichlorobenzene	0.50	2.50

An action level of 10X the maximum contaminant concentration for methylene chloride and 5X the maximum contaminant concentration for 1,2,4-trichlorobenzene was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. The sample positive results for methylene chloride and 1,2,4-trichlorobenzene were qualified non-detected, (U), due to the method blank contamination.

The sample ethanol result for sample BP-VPB136-AIR-071912 exceeded the highest calibration standard for the analysis. The sample ethanol result was qualified estimated, (J).

The laboratory reported tentatively identified compounds (TICs) in the VOC results including VOC analytes which were not able to be qualitatively identified and were identified as "Unknown" compounds by the laboratory. All TIC compounds were qualified presumptively present estimated (NJ), as the instrument was not specifically calibrated for these VOC compounds.

Positive results below the Reporting Limit (RL) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The laboratory performed a duplicate analysis for sample BP-VPB136-AIR-071912. Laboratory duplicate precision was acceptable.

ADDITIONAL COMMENTS

The laboratory reported the VOC air result concentrations in units of both ppbv and $\mu\text{g}/\text{m}^3$ on the sample forms. The results in the database and the qualified analytical result concentrations are reported as $\mu\text{g}/\text{m}^3$ only.

Sample VOC analyte results were reported to the RL.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The sample was qualified for methylene chloride and 1,2,4-trichlorobenzene method blank contamination. The sample ethanol result was qualified for a laboratory duplicate RPD non-compliance and exceeding the highest calibration level for the instrument calibration.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the method detection limit were qualified as estimated, (J), due to uncertainty near the detection limit. TIC compounds were qualified estimated presumptively present.

The data for these analyses were reviewed with reference to the EPA Method TO-15, SOP HW-31 Revision #4, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Air Samples

TO: D. BRAYACK
SDG: 1207393

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Volatile Organic Analysis of Ambient Air in Canister by Method TO-15, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).



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Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $< CRQL$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02751	NSAMPLE	BP-VPB136-AIR-071912	
SDG: 1207393	LAB_ID	1207393-01A	
FRACTION: OV-M3	SAMP_DATE	7/19/2012	
MEDIA: AIR	QC_TYPE	NM	
	UNITS	UG/M3	
	PCT_SOLIDS		
	DUP_OF		
PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.44	U	
1,1,2,2-TETRACHLOROETHANE	0.55	U	
1,1,2-TRICHLOROETHANE	0.44	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.62		
1,1-DICHLOROETHANE	0.65	U	
1,1-DICHLOROETHENE	0.64	U	
1,2,4-TRICHLOROBENZENE	0.85	U	A
1,2,4-TRIMETHYLBENZENE	0.96		
1,2-DIBROMOETHANE	0.62	U	
1,2-DICHLOROBENZENE	0.48	U	
1,2-DICHLOROETHANE	0.16	J	P
1,2-DICHLOROPROPANE	0.74	U	
1,2-DICHLOROTETRAFLUROETHANE	0.56	U	
1,3,5-TRIMETHYLBENZENE	0.2	J	P
1,3-DICHLOROBENZENE	0.48	U	
1,4-DICHLOROBENZENE	0.37	J	P
1,4-DIOXANE	0.26	J	P
2,2,4-TRIMETHYLPENTANE	0.98		
2-BUTANONE	3.9		
4-METHYL-2-PENTANONE	3.5		
BENZENE	1.1		
BENZYL CHLORIDE	0.26	J	P
BROMODICHLOROMETHANE	0.54	U	
BROMOFORM	0.83	U	
BROMOMETHANE	1	J	P
CARBON TETRACHLORIDE	0.42	J	P
CHLOROBENZENE	0.74	U	
CHLORODIBROMOMETHANE	0.68	U	
CHLOROETHANE	2.1	U	
CHLOROFORM	0.79	U	
CHLOROMETHANE	1.1		
CIS-1,2-DICHLOROETHENE	0.64	U	
CIS-1,3-DICHLOROPROPENE	0.73	U	
CYCLOHEXANE	0.54	J	P
DICHLORODIFLUOROMETHANE	2.2		

PROJ_NO: 02751	NSAMPLE	BP-VPB136-AIR-071912		
SDG: 1207393	LAB_ID	1207393-01A		
FRACTION: OV-M3	SAMP_DATE	7/19/2012		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
ETHANOL	360	J	F	
ETHYLBENZENE	1.3			
HEXACHLOROBUTADIENE	8.6	U		
HEXANE	2.4			
METHYL TERT-BUTYL ETHER	0.58	U		
METHYLENE CHLORIDE	1.5	U	A	
M-XYLENE	3.5			
O-XYLENE	0.84			
STYRENE	0.23	J	P	
TERTIARY-BUTYL ALCOHOL	2.3	J	P	
TETRACHLOROETHENE	0.55	U		
TOLUENE	14			
TRANS-1,2-DICHLOROETHENE	0.64	U		
TRANS-1,3-DICHLOROPROPENE	0.73	U		
TRICHLOROETHENE	0.43	U		
TRICHLOROFLUOROMETHANE	1.2			
VINYL CHLORIDE	0.41	U		

PROJ_NO: 02751	NSAMPLE	BP-VPB136-AIR-071912	BP-VPB136-AIR-071912A	BP-VPB136-AIR-071912B					
SDG: 1207393	LAB_ID	1207393-01A	1207393-01A	1207393-01A					
FRACTION: OV-V	SAMP_DATE	7/19/2012	7/19/2012	7/19/2012					
MEDIA: AIR	QC_TYPE	NM	NM	NM					
	UNITS	PPBV	PPBV	PPBV					
	PCT_SOLIDS								
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRAFLUOROETHANE	6.7	NJ	Z1						
ACETONE	41	NJ	Z1						
BUTANE	12	NJ	Z1						
CARBON DISULFIDE	1.9	NJ	Z1						
CYCLOPROPANE, ETHYL-	3	NJ	Z1						
DECANE, 2,5,6-TRIMETHYL-	3.8	NJ	Z1						
ISOPROPANOL	6.9	NJ	Z1						
UNKNOWN	3.5	NJ	Z1	3.2	NJ	Z1	3	NJ	Z1

Section 7

VPB 136 Detected Compounds Table

**VALIDATED ANALYTICAL RESULTS
DETECTED COMPOUNDS FOR VERTICAL PROFILE BORING 136
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK**

No.	Sample ID	Depth (feet bgs) ¹	Analysis Type	Total VOCs (µg/L) ²	TCE	PCE	1,1- DCA	1,1- DCE	Cis-1,2- DCE	2-Buta none	Ace.	Freon 11	Freon 12	Freon 113	Methylene Chloride	Toluene
1	BP-VPB136-GW-061	61	SO ³	1.4		1.4 J					27					
2	BP-VPB136-GW-101	101	AQ	ND							23					
3	BP-VPB136-GW-161	161	AQ	4.6	4.6											
4	BP-VPB136-GW-221	221	AQ	1.7	1.7 J											0.41 J
5	BP-VPB136-GW-241	241	SO ³	ND							24 J					
6	BP-VPB136-GW-261	261	AQ	ND												
7	BP-VPB136-GW-281	281	AQ	ND												
8	BP-VPB136-GW-301	301	AQ	1.3	1.3 J											
9	BP-VPB136-GW-321	321	AQ	ND						9.4	92					
10	BP-VPB136-GW-341	341	AQ	ND												
11	BP-VPB136-GW-361	361	AQ	0.53	0.53 J											
12	BP-VPB136-GW-381	381	AQ	0.77	0.77 J					5.1	35					
13	BP-VPB136-GW-401	401	AQ	1	1						4.8 J					
14	BP-VPB136-GW-421	421	AQ	1.8	1.8						5.6					
15	BP-VPB136-GW-441	441	AQ	18	15	2.2	0.69 J				5.7	1.8	0.42 J			
16	BP-VPB136-GW-461	461	SO ³	ND												
17	BP-VPB136-GW-481	481	SO ³	ND												
18	BP-VPB136-GW-501	501	SO ³	ND												
19	BP-VPB136-GW-521	521	SO ³	ND												
20	BP-VPB136-GW-541	541	AQ	31	13	16		1.1	0.71 J		4.1 J			1.7		
21	BP-VPB136-GW-561	561	SO ³	ND											2.3 J	
22	BP-VPB136-GW-581	581	AQ	4.1	2.6	1.5					9					
23	BP-VPB136-GW-601	601	SO ³	ND											1.9 J	
24	BP-VPB136-GW-621	621	SO ³	ND											2.6 J	
25	BP-VPB136-GW-641	641	SO ³	ND												
26	BP-VPB136-GW-661	661	SO ³	ND												
27	BP-VPB136-GW-681	681	SO ³	ND												
28	BP-VPB136-GW-701	701	SO ³	ND												
29	BP-VPB136-GW-741	741	SO ³	ND												
30	BP-VPB136-GW-802	802	SO ³	ND							78 J					

Notes:

bgs: Below ground surface

µg/L: micrograms per liter

J: Estimated Value

ND: Not detected

TCE: Trichloroethene

PCE: Tetrachloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

cis-1,2-DCE: 1,2-Dichloroethene

Ace.: Acetone

¹ Samples were taken on 20-foot centers starting at 200 ft bgs to the total depth of the borehole. Where a sample could not be obtained from the designated interval, an attempt was made at the next 10-foot interval

² TCE, PCE, 1,1-DCA, 1,1-DCE, 1,2-DCA, and Cis-1,2-DCE used to calculate Total VOCs.

1,1,1-TCA, 1,1,2-TCA, chloroform, and vinyl chloride were not detected in this boring.

³ Results are reported as a soil on a wet weight basis (microgram per kilogram)

Section 8
Survey

VBP-136 coordinates surveyed with Trimble® GPS on September 12, 2012.

Coordinate system: NAD83 New York State Plane

213391.63 N

1124928.51 E